

# ◆ Across the Oceans ◆



Newsletter of the International Ocean Institute

April 1999



## IOI at a glance

The International Ocean Institute, like the ocean, is dynamic. Since its establishment in Malta in 1972 the organisation has evolved reflecting changing issues and perspectives, but always adhering to its fundamental principles of peaceful management and conservation of oceans and their resources for the benefit of all.

President Joseph Warioba notes that during the 1970's IOI functioned as a think tank. During the 1980's great emphasis was placed on training and the number of alumni around the globe grew to over two thousand. During the 1990's the number of operational centers grew from two (Malta and Canada) to ten, and these new centers brought into play an additional dimension which focuses on institutional restructuring and regional capacity building.

Today IOI is led by Dr Gunnar Kullenberg a marine scientist of international reputation and former Executive Secretary of the Intergovernmental Oceanographic Commission of UNESCO in Paris. "IOI is no longer a centralised institution but a network of ten autonomous operational centers" notes Dr. Kullenberg. "I feel that the implications for the organisation have been positive as the expanding network has enriched IOI's perspectives by providing grassroots inputs that have tended to balance international concerns with local and national priorities."

The present newsletter is an attempt to keep members of the network in touch with each other while keeping costs of communication as low as possible.

## Mission of IOI

To promote education, training and research to enhance the peaceful uses of ocean space and its resources, their management and regulation as well as the protection and conservation of the marine environment, guided by the principle of the Common Heritage of Mankind



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## Members of Governing Board

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Tsutomu Fuse  
Chair Planning Council  
Japan

Gunnar Kullenberg  
Secretary  
Executive Director  
Sweden



**Activity during  
the coming  
year appears to  
be intense and  
diversified for  
IOI in Canada**

**Robert Race**

## News from Operational Centers

### Canada

Director : Robert Race  
1226 LeMarchant Street  
Halifax, Nova Scotia, Canada B3H 3P7  
Tel. 1-902-494-6623 / 1737  
Fax. 1-902-494-2034  
E-mail: ioihfx@dal.ca  
<http://www.dal.ca/ioihfx/>

Established In 1980 by Dr. Elisabeth Mann Borgese this center is located on the campus of Dalhousie University. Major activities include the annual ten week summer training program now in its 19th year. Course director for 1999 will be Dr. Noel Brown. Volume 15 of the Ocean Yearbook is being edited in cooperation with Dalhousie Law School and proceedings of the 1998 Pacem in Maribus Conference entitled : The Crisis of Knowledge: New Directions for Learning and Informed Decision-making for Oceans and Coasts will be published later this year in cooperation with the Centre for Foreign Policy Studies at Dalhousie. Under the chairmanship of Hon. Allan J. MacEachen, former Minister of External Affairs of the Government of Canada, a recently established Advisory Council will take an active role in focusing the attention of Canadians on issues of ocean governance.

### China

Director: Prof. Hou Wenfeng  
National Marine Data & Information Service  
93 Liuwei Road, Hedong District  
Tianjin 300171, China  
Tel. 011-86-22 24301292  
E-mail: ioi@netra.nmdis.gov.cn or  
qinli@public1.tpt.tj.cn

Established in 1994 by a memorandum of understanding between the State Oceanic Administration of China and IOI this center has been very active. It has conducted four training programs bringing together sixty participants from twenty developing countries in Asia to examine such topics as Deep Seabed Mining and

Coastal Zone Management. In cooperation with IOI Japan, staff have carried out research on the impact of megacities on coastal areas. A two-day alumni workshop held in October 1998 brought together forty participants to plan future courses and publications.

### Costa Rica

Director: Dr. Alejandro Gutierrez  
Universidad Nacional  
PO Box 86, Heredia 3000  
Costa Rica  
Tel. 011-506-277-3594  
Fax. 011-506-260-2546  
E-mail: ioicos@una.ac.cr

Established in 1984 this center is located on the campus of the Universidad Nacional in Heredia, an institution with a long history of service and outreach to the people of Costa Rica. The center has experimented with training programs of both long and short duration, and it has hosted hearings for the World Commission and published course materials in Spanish for regional distribution. Staff are involved in the design and formulation of a Coastal Zone Management Plan for Costa Rica. In conjunction with this major undertaking, several workshops have been held in the Gulf of Nicoya area. More workshops are scheduled to be held during 1999 focusing on issues of coastal zone management in this region. At the present time the center is publishing a brochure on the Caribbean.

### Japan

Director: Dr. Tsutomu Fuse  
Yokohama City University  
22-2 seto, Kanazawa-ku,  
Yokohama 236  
Japan  
Tel. 001-81-45-787-2311  
Fax. 001-81-45-787-2316  
Email: intercom@qb3.so-net.ne.jp

Established in 1995 IOI - Japan has been active through its sponsorship of conferences and workshops including



**The MIDeSS.learn  
component will pro-  
vide web-based  
learning materials**

**Professor Derek  
Keats**

and introducing methods of preserving and restoring coastal ecology such as afforestation and mangrove regeneration. Efforts to improve the livelihood of the people through self-help and income generation activities are being explored. Based on the progress of the initial undertaking, a second project has been initiated in the state of Gujarat.

In August 1998 with the approval of the IOI Board and the Board of Governors of IIT Madras, the Foundation for Sustainable Development (India) was established. Managed by a Board of Trustees it has two divisions: a Center for Sustainable Development, and the IOI - Operational Center.

Dr. Rajagopalan hopes that this virtual center will play a catalytic role by using extensive networking, modern information technology and communication facilities to bring diverse expertise and knowledge together to solve problems of sustainable development.

### **South Africa**

Director: Dr. Derek Keats  
Botany Department, University of  
Western Cape,  
P Bag X17, Bellville 7535 South  
Africa  
Tel. 011-2721-959-2594/2304  
Fax. 011-2721-959-3573/2266  
Email. dkeats@uwc.ac.za (Derek  
Keats)  
<http://www.ioi.uwc.ac.za>

Since its establishment in 1996, IOI - South Africa has conducted training courses on Seaweed Mariculture for Community Development, has taken a leadership role in the creation of an IOI website and has provided advice to the Government of Angola on community mariculture initiatives.

In March 1999 the center embarked on a new training initiative, MIDeSS.learn, a web-based Integrated Coastal Management Training package. According to Professor Keats, the MIDeSS.learn component will provide web-based learning mate-

rials. The first module of MIDeSS.learn to be developed during 1999 will be entitled "An Introduction to Integrated Coastal Management". The target audience includes mid-career decision-makers who may wish to acquire or refresh a basic understanding of ICM principles, as well as undergraduate or postgraduate students of environmental management, coastal engineering or environmental law. While the focus is South African, the course will be available globally via the medium of the internet. For further details contact the MIDeSS.learn website at:  
<http://midessslearn.uwc.ac.za>

### **Senegal**

Director: Dr. Diafara Toure  
Centre de Recherches  
Oceanographiques de Dakar - Thiaroy  
B.P. 2241 Dakar, Senegal  
Tel. 011-221-834-8041 or 8280  
Fax. 011-221-834-2792  
Email. bsambe@crodt.isra.sn (Birane Samb)

Established in 1994, this center conducted several courses in French on the Management and Development of Small Scale Fisheries in Western Africa and published materials to accompany these courses. Research efforts have included the description and modelling of the coastline of western Africa including Mauritania, Gambia, Ivory Coast and Guinea-Bissau. In 1999 a two week course on Biodiversity of Marine and Coastal Ecosystems will be offered in Dakar.

## News from Malta

In June 1998 Dr Krishan Saigal retired as Executive Director following five and one half years of distinguished service. During his term Dr. Saigal oversaw the successful completion of the United Nations Development Project which resulted in the establishment of operational centers in Madras, India; Dakar, Senegal; Heredia, Costa Rica; Suva, Fiji as well as Tianjin, China and Yokohama, Japan. Two additional centers were established in South Africa in (1996) and Romania in (1997). Dr. Saigal noted that the IOI draws tremendous strengths from the new partner institutions with their considerable intellectual resources and he anticipated the challenge of developing a shared vision to ensure that IOI remains, flexible and responsive to the needs of all members of the network.

Dr. Gunnar Kullenberg who retired from UNESCO in April assumed leadership of IOI in June 1998. Since that time he has been active on many fronts including the representation of IOI at meetings of the United Nations Environment Program, the Fridtjof Nansen Institute in Norway and the National Open Forum in the United Kingdom. Considerable time has been devoted to outreach activities as well as familiarisation with the operational centers. Several major project proposals have been presented to foundations and governments for funding.

Dr. Kullenberg and his staff took an active role in the 1998 meetings of the Planning Council and Governing Board held in Halifax, Canada from 25-28 November in conjunction with the 26th Pacem in Maribus Conference.

Highlights of decisions taken by the Board:

- approval of 1999 budget of US\$2.8 million
- approval of plans presented by IOI - South Pacific to host the 1999 Pacem in Maribus Conference in Fiji November 8-12. The theme will be *Oceans in the New Millenium: Challenges and Opportunities for the Islands*
- review and approval of individual workplans and budgets for nine centers
- outline of strategy for developing a shared vision to facilitate advance planning.

Highlights of decisions taken by the Planning Council:

- preparation of a book of articles by alumni
- establishment of a public lecture series
- preparation of a history of IOI
- preparation of a bibliography of IOI publications
- preparation of a Global Ocean Agenda

## Headquarters

IOI has close ties with the government of Malta and the University of Malta. Today the headquarters are located on the campus of the University of Malta which houses the office of the Executive Director and three support staff.

University of Malta  
PO Box 3, Gzira GZR 01 MALTA  
Tel. 011-356-346-528/9  
Fax. 011-356-346-502  
Email: ioimla@kemmnet.net.mt




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**IOI is no longer a centralised institution but a network of ten operational centers**

**Dr. Gunnar Kullenberg**

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## News from Operational Centers

the 1996 13th Yokohama 21st Century Forum which resulted in the Yokohama Appeal and more recently the 1997 Tokyo Appeal for Ocean Peace Keeping. Both fora encouraged effective international efforts to promote peaceful uses of the oceans. As chairman of the Planning Council, Professor Fuse, is now taking an active role in the future of all IOI activities.

### Fiji

Director: Dr. G. Robin South  
IOI South Pacific  
Marine Studies Programme  
University of South Pacific  
PO Box 1168  
Suva, Fiji  
Tel. 011-679-305-446 or 305-472  
Fax. 011-679-301-490  
Email. south\_r@usp.ac.fj

IOI - South Pacific was established in 1993 and operates under a Memorandum of Understanding with both the Government of Fiji and the University of the South Pacific. As a member of the IOI "family" of ten centers it serves principally the South Pacific region.

Two special seminars for leaders in government were conducted in Fiji in 1993 and in Papua New Guinea in 1996 and similar seminars are under consideration by the governments of Solomon Islands and Samoa. IOI-South Pacific's training program is merging with the broader training efforts of the Marine Studies Program.

The center plays a growing role in the areas of advocacy and marine awareness. Five village workshops have been held, resulting in a heightened marine awareness, which in turn, has reduced conflict in the dive-tourism industry and accelerated plans to develop Marine Conservation Areas in Fiji and to develop a village coastal monitoring program in Samoa.

According to Professor South, 1999 will be an exceptionally busy year with continuation of their marine awareness workshops in Fiji, the intro-

duction of a new certificate course in climate change, as well as a course on sponge identification and a workshop on seagrasses. Contact MSP-TRAIN@usp.ac.fj for further details.

**Pacem in Maribus XXVII** will be hosted by IOI South Pacific from November 8-12th, 1999. The theme of the conference is *Oceans in the New Millennium: Challenges and Opportunities for the Islands*. For further details of the conference contact Secretariat Coordinator, Dr. Esther Williams at: williams\_e@usp.ac.fj

### India

Director: Professor R.Rajagopalan  
Foundation for Sustainable Development (India)  
IOI Office, ICSR Building  
Indian Institute of Technology Madras  
Chennai 600 036 India  
Tel/Fax. 011-91-44-230-1338  
Email. ioimas@md2.vsnl.net.in

Since its establishment in 1993 the IOI Operational Center in India has become a self-sustaining center with an established reputation in the region for high quality training, community development and publications.

IOI-India has trained and sensitised over 700 policy makers, civil servants, teachers and researchers in areas such as Coastal Zone Management, Deep Seabed Mining and Environmental Policy. The center has compiled data bases on individuals and institutions in the region concerned with ocean and coastal affairs and is in the process of establishing a library and documentation center.

In 1997 with funding from GTZ of Germany, the center initiated a two-year Ecovillages Project in cooperation with a local non governmental organisation, the ANAWIM Trust. In twenty coastal villages in the Tuticorin District of Tamil Nadu inhabited by *dalits* (depressed groups) center staff work to create awareness of ways of preserving the natural environment



**We are working with  
Pacific Island  
countries to help  
them prioritise ocean  
issues**

**Professor Robin  
South**

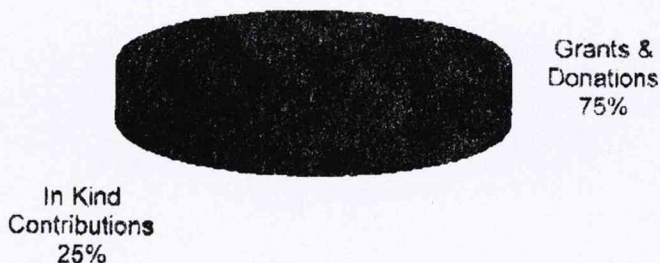
**Romania**

Director : Dr. Alexandru S. Bologa  
 IOI - Black Sea Operational Center  
 Romanian Marine Research Institute  
 Bd. Mamaia 300, RO-8700 Constanta 3  
 Romania  
 Tel. 011-40-41-643288/ 650870  
 Fax.011-40-41-831274  
 Email.abologa@alpha.rmri.ro

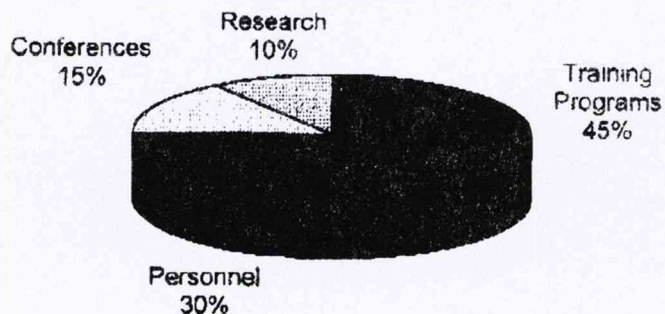
Established in 1997 by agreement between IOI and the Black Sea University Foundation in Bucharest, this center is the newest member of the IOI family. Professor Bologa has laid the groundwork for future training and research activities to be carried out by the center by establishing an advisory group which includes the founder of the Black Sea University Foundation, M. Malitza and the Rector of University Ovidius in Constanta, Professor A. Bavaru. Plans are underway for a meeting of experts to be held in Constanta later this year to draw attention to environmental issues in the Black Sea.

**Focus on Finances**

**Total Income for 1997**  
**\$US 2,040,639**



**Total Expenditures for 1997**  
**\$US 1,912,567**



This information is based on the audited reports and financial statements prepared by Manduca, Mercieca Delliotte & Touche.



From: **Self <KILCOM1/MCOFFENSMOUT>**  
To: **anita**  
Subject: **Across the Oceans**  
Date sent: **Fri, 13 Aug 1999 15:03:42 AST**

Dear Anita,

Seems ages since I last saw you or was even in touch by E-Mail. I hope all's well, and that you are enjoying the summer. I assume you're up in Cape Breton?

The training programme finished last week, so I am finally finding time to catch up on other things. One of those is the updating of our website, and I wanted to find out from you what the current position is re Across the Oceans. I remember seeing something on the fax machine at some point earlier in the year, which appeared to be a draft of a new edition. Is it now out? In the past, we've put it on our website, so if it's available, we'd love to have it in a postable version. Is IOI - Southern Africa also doing that on their website these days? I've just tried checking it, but for some reason it wouldn't load - I just kept staring at the egg-timer with the grains flowing endlessly through, and decided I was wasting my time! Maybe I'll try again later.

Anyway, if you do have anything to report, I'd love to hear from you. We're going away for a week on Saturday, but I'll be back in the office on 23rd August, and could get cracking on things again then.

Enjoy the last few weeks of sunshine and hot tubs and bucolic laziness. (We've already had a taste of autumnal weather this week - too early as far as I'm concerned, but it has been an amazing summer, so I can't grumble!) All the best to Joe if he's around at present.

Love,

Madeleine.

From: **ACoady8315@aol.com**  
Date sent: **Mon, 23 Aug 1999 09:38:35 EDT**  
Subject: **Various**  
To: **mcoffensmout@kilcom1.ucis.dal.ca (International Ocean Institute)**

Dear Madeleine

Greetings from Foxhole Farm - it's wonderfully green around here - after the rains of the past few days.

Last batch of summer visitors have left and like you I'm turning to tasks on "the list". Thanks for you informative note - well re the electronic ATO I'm beginning the second issue - assume you received the April issue which was sort of a draft - however - I am requesting that each centre send either by email or fax info on recent past and upcoming activities ie. training courses, workshops, publications, meetings of advisory committee, staff changes, plus new staff, email or other contact points, So if you would like to compile such a snapshot of the IOI Canada activities - I'll include it.

The premise behind making ATO electronic is to be able to send to all 10 centres a 4-8 page pdf file which they can add to, translate, print, distribute locally - which cuts down on cost and delay.

If you and Scott are in the vicinity please drop by. Any sign of MJW? Where is EMB these days? How's Robert's various projects going?

I don't know how successful you are at accessing IOI websites today - but i was completely UNSUCCESSFUL.

Cheers,

Anita



From: ACoady8315@aol.com  
Date sent: Mon, 23 Aug 1999 09:38:35 EDT  
Subject: Various  
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I don't know how successful you are at accessing IOI websites today - but i was completely UNSUCCESSFUL.

Cheers,

Anita

8/11 max  
Report a recent visit  
re opening tags  
So in contact of

From: **ACoady8315@aol.com**  
Date sent: **Fri, 10 Sep 1999 13:53:07 EDT**  
Subject: **April ATO**  
To: **mcoffensmout@kilcom1.ucis.dal.ca (International Ocean Institute)**

Hi Madeleine

I am attaching the last issue of ATO - and look forward to hearing from you regarding the next issue.

Great to chat and best wishes to the entire family

Anita

From: Self <KILCOM1/MCOFFENSMOUT>  
To: anita  
Subject: Across the Oceans  
Date sent: Tue, 21 Sep 1999 11:13:47 AST

Dear Anita,

As promised, here is the update of activities here in Halifax. I'm sorry it has taken a bit of time to get it to you, but I hope you can still incorporate what you want of it before the deadline. For some reason, I sometimes have problems attaching files, so although I am sending it as a Word attachment, I've also taken the precaution of blocking and copying the text into the body of this message, just as a belt and braces measure. (Wednesday is my day off, so I wouldn't be able to resend it until later in the week if you didn't receive it properly.)

As you may note, we've dropped the reference to the PIM Proceedings. The grant that we were hoping to get from the province to cover the cost of publishing them still hasn't come through, and although the editor should finish working on them in the next two or three weeks, we can't go ahead with putting them into print at this point. As you probably know, there's been a request to put them on the Internet, which could happen before PIM XXVII, but given that full delegates were promised a copy of the Proceedings as part of their registration fee, it's best at this stage just to steer clear of the whole issue.

I think that's it. Looking forward to seeing the final version in due course. Enjoy the glories of Cape Breton over the next few golden weeks.

Love,

Madeleine.

P.S. I assume you got the fax I sent earlier this morning.

=====  
Canada

Director: Mr. Robert Race  
IOI - Canada  
Dalhousie University  
1226 LeMarchant Street  
Halifax, Nova Scotia, B3H 3P7  
Canada  
Tel.: 1 902 494-1737/6623  
Fax: 1 902 494-2034  
E-Mail: ioihfx@dal.ca  
<http://www.dal.ca/ioihfx/>

Established in 1980 by Professor Elisabeth Mann Borgese, this centre is located at Dalhousie University. Major activities include the annual ten week training programme, now in its 19th year. This year's Course Director was Dr. Noel Brown, former head of UNEP in New York, and the programme was attended by 18 participants from 17 countries. During the course, a five-day training module was conducted on the Enhanced Role of Risk Management in Integrated Coastal Area Management. This module was produced as part of a larger, ongoing project to enhance the role of Risk Management in Coastal area Management, the next phase of which will include organising a workshop at the Bermuda Biological Station in February 2000. The training materials for the module will be presented there, as well as a background paper produced by IOI - Canada to complement case-studies

prepared by the other IOI centres.

Another major project is the UNEP/GPA News Forum, which is a dynamic, interactive news, information, and discussion service within the clearing-house mechanism of the Global Programme of Action for the Protection of the Marine Environment from Land-based Activities. IOI - Canada is currently executing this project. Staff from Halifax attended the launch at the Special Session of the UN General Assembly on Small Island Developing States, held in New York in September 1999. At the launch, both an Internet site and a hard-copy version were presented, providing delegates with a preview of the services and functions which this new initiative will be offering. The Internet site for the News Forum is <http://gpanews.unep.org> and readers are strongly encouraged to visit the site and participate in discussions by submitting articles and feedback.

Other ongoing activities include the editing of Ocean Yearbook, Volume 15 of which is currently being worked on in co-operation with the Dalhousie Law School. In addition, the recently established Advisory Council will be taking an active role in focusing the attention of Canadians on issues of ocean governance, under the Chairmanship of Hon. Allan J. MacEachen, former Minister of External Affairs of the Government of Canada.

Attachments:

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# ◆ Across the Oceans ◆



Newsletter of the International Ocean Institute

October 1999



IS THIS  
1/2 LINE  
MEANT  
TO  
BE  
MORE?

## PIM at a glance

FORMAT FOR DATES VALUES - of P.S.

From November 8th to 12th, over 150 international and regional experts on the oceans will converge at the University of the South Pacific to attend an important conference on ocean governance and marine issues. The International Ocean Institute - South Pacific (IOI-SP) and the University of the South Pacific (USP) will host the twenty-seventh Pacem in Maribus Conference (PIM XXVII) at the Marine Studies Complex on the campus of USP in Suva, Fiji. The Rt. Hon. Ratu Sir Kamisese Mara, President of the Republic of Fiji will officially open the Conference November 8th. The theme of the conference is *Oceans in the New Millenium: Challenges and Opportunities for Islands*. Four plenary addresses and a series of panels have been designed to develop resolutions of relevance to small island developing states.

Previous PIM Conferences are considered milestone events in fostering understanding of threats to the world's oceans as well as the potential of ocean resources to sustain humankind. "PIM XXVII will provide a forum where the challenges of ocean space can be further considered in their interconnectedness and treated as a whole", notes Dr. Esther Williams, Chair of the PIM Secretariat. Special speakers during the conference include Mr. Tamarii Tutangata from Samoa who will deliver the first keynote address "UNCED + 5 : A Vision of the Future for Islands", while H.E. Tuiroma Neroni Slade will address the second plenary "Developments since UNCED and Barbados" on Tuesday morning. That evening, Professor Guido de Marco, President of Malta will deliver a public lecture. For more details contact <http://www.usp.ac.fj/ioi>.

consult

2nd plenary.  
Brochure just receives gives title as UNCED + 7 and Barbados: Where are we now?

## Employment Opportunity

IOI is seeking applicants for the position of Executive Director.

Deadline: May 2000  
Starting Date: May 2001  
Salary: US\$ 60,000  
Address inquires to:  
Executive Director  
IOI Headquarters, Malta

P.O. Box 3 Gzira  
GZR 01

## Members of Governing Board

- Salvino Busuttill  
Malta
- Nikolaus Gelpke  
Switzerland
- Fujiko Hara  
Japan
- Jorge Mora Alfaro  
Costa Rica
- Alassane Dialy Nd  
Senegal
- R. Natarajan  
India
- Christopher Pinto  
Sri Lanka
- Bhagwat Singh  
India
- Esekia Solofa  
Fiji
- Yoshio Suzuki  
Japan
- Anton Vratusa  
Slovenia
- Layashi Yaker  
France

Governing Board  
Executive Committee

Members

## Members of Executive Committee

- Elisabeth Mann Borgese  
Founder  
Canada
- Joseph Warioba  
President  
Tanzania
- Alexander Yankov  
Vice President  
Bulgaria
- Anita Coady  
Treasurer  
Canada
- Tsutomu Fuse  
Chair Planning Council  
Japan
- Gunnar Kullenberg  
Secretary  
Executive Director  
Sweden



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N.B. This may need changing if Dalene's note 6 is adopted.

### Network News

Several projects launched this year will involve most of our centers, notes Dr Gunnar Kullenberg, Executive Director. In May 1999 an agreement was signed by IOI and the United Nations Environment Program (UNEP) Global Program of Action for the production of a News Forum, a dynamic and interactive news information and discussion service. Since then, IOI-Canada has taken a lead role in the design and implementation of the project and Ms. Ying Watt has been responsible for much of the preparatory work which included soliciting written articles on marine pollution from various centers for inclusion in future issues. The GPA Clearing-House and News Forum is now online. Check out the online edition at "<http://www.gpa.unep.org>".

Another new project on Risk Assessment is underway in cooperation with Swiss Reinsurance Company of Zurich. At the present time, one training module has been tested, during the 1999 course in Halifax. Additional case studies and background materials will be produced by operational centers for presentation at the Bermuda Biological Station in February 2000.

A recent grant of one million Swiss francs to the IOI has launched a program on Women and the Sea. These funds will be used to enhance participation of women in all IOI activities.

The Canadian International Development Agency (CIDA) confirmed in June 1999 its ongoing support to IOI by announcing a grant of CA\$ 594,000, to cover the period April 1999 to March 2002.

IOI headquarters hosted meetings of the Executive Committee of the Board, and Directors of Operational Centers from 1-6 June 1999.

The meetings included a review of the activities of all centers; an assessment of finances; and planning for major activities to be undertaken in 2000 and 2001.

The meetings agreed on the following actions:

- launching of an IOI Youth Program, possibly in cooperation with the Hellenic Marine Environment Protection Association (HELMEPA).
- preparation of a book on IOI Alumni
- preparation of poster presentations by all centers at 1999 PIM Conference
- launching of a dynamic marketing campaign
- preparation of an overview of coastal zone areas where IOI centers are active
- preparation of a history of IOI
- preparation of a bibliography of IOI publications

### Headquarters

IOI has close ties with the government of Malta and the University of Malta. Today the headquarters are located on the campus of the University of Malta which houses the office of the Executive Director, Dr. Gunnar Kullenberg and three support staff.

University of Malta  
PO Box 3, Gzira GZR 01 MALTA  
Tel. 356-346-528/9  
Fax. 356-346-502  
Email: ioimla@kemmnet.net.mt  
<http://www.ioi.nst.org/loisal>

The Operational Center in Malta has been reconstituted with three program elements: research; training and public awareness; and studies of the Principle of Common Heritage of Mankind. Fr. Peter Serracino Ingloft directs this center.

ADDRESS OF IOI-MALTA?



The following actions were agreed upon at the meetings:

How do we ensure that our centers participate in system-wide projects and benefit from them?  
Dr. Kullenberg

SOME OF THESE QUOTATIONS HAVE A LINE BETWEEN TEXT + NAME, + OTHERS DON'T.

UNEP/GPA coordin office

Ongoing work in the op. centres includes soliciting news articles on the implementation of the GPA.

- Italicize UNEP/GPA News Forum
- consistency in spacing betw IOI + Operational Centre name IOI-Canada or IOI - Canada
- consistency in numbering
  - eg., IOI-Canada reference to 18 participants
  - China one hundred
- "centres" in official IOI portfolio,  
not centers

### News from Operational Centers

#### Canada

Director: Robert Race  
 1226 LeMarchant Street  
 Halifax, Nova Scotia, Canada B3H 3P7  
 Tel. 1-902-494-6623 / 1737  
 Fax. 1-902-494-2034  
 E-mail: ioihfx@dal.ca  
 http://www.dal.ca/ioihfx/

Established in 1980 by Dr. Elisabeth Mann Borgese, this center is located on the campus of Dalhousie University. Major activities include the annual ten week summer training program now in its 19th year. This year's Course Director was Dr. Noel Brown, former head of UNEP in New York and the program was attended by 18 participants from 17 countries. During the course, a five-day training module was conducted on the Enhanced Role of Risk Management in Integrated Coastal Area Management. This module was produced as part of a larger, ongoing project to enhance the role of Risk Management in Coastal Area Management, the next phase of which will include organising a workshop at the Bermuda Biological Station in February 2000. The training materials for the module will be presented there, as well as a background paper produced by IOI-Canada to complement case studies prepared by other IOI centers.

Another major project is the UNEP/GPA News Forum, a dynamic, interactive news information and discussion service within the clearing-house mechanism of the Global Programme of Action for the Protection of the Marine Environment from Land-based Activities. Staff from Halifax attended the September launch in New York which provided a preview of the services which this initiative will offer. Other ongoing activities include the editing of Ocean Yearbook, Volume 15 for release in 2000.

\* Apparently this should read that Noel Brown was formerly head of "UNEP's Regional Office

#### China

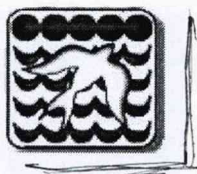
Director: Prof. Hou Wenfeng  
 National Marine Data & Info Service  
 93 Liuwei Road, Hedong District  
 Tianjin 300171, China  
 Tel. 86-22 430-1292/1297  
 Fax. 86-22 430-4408  
 E-mail: ioi@netra.nmdis.gov.cn or  
 qinli@public1.tpt.tj.cn  
 houwf@sun.ihep.ac.cn

Established in 1994 by a memorandum of understanding between the State Oceanic Administration of China and IOI this center has been very active. In September IOI-China co-sponsored the Megacities at the Coast Workshop which brought together more than one hundred participants from around the region.

#### Costa Rica

Director: Dr. Alejandro Gutierrez  
 Universidad Nacional  
 P.O. Box 86, Heredia 3000  
 Costa Rica  
 Tel. 506-277-3594  
 Fax. 506-260-2546  
 E-mail: gechever@una.ac.cr or  
 gechever@samara.una.ac.cr

Established in 1994, this center is located on the campus of the Universidad Nacional in Heredia. A recent agreement of collaboration with INRECOSMAR, a national organisation working in the coastal communities along the Gulf of Nicoya region, will advance the center's coastal management initiatives. Publishing projects include the release to UNEP of four brochures on the Caribbean, the Mediterranean, the Pacific and the Indian Oceans. New activities include a workshop on disaster mitigation in cooperation with the National Oceanic and Atmospheric Agency (NOAA) and a training course on Economic Evaluation of Wetlands to be co-sponsored by the International Union for the Conservation of Nature (IUCN).



SHOULD THIS BE ADDED FOR CONSISTENCY?

It is generally agreed that it is desirable for IOI to expand its network

Dr. Kullenberg

\* Make sure New business proposals

→  
→  
→  
italicize

N.B. I HADN'T NOTICED HOW MUCH OVERLAP THERE IS BETWEEN WHAT WE SENT AND YOUR "NETWORK NEWS." IS IT A PROBLEM?

State Oceanic Administration  
Tianjin  
P.R. China

100 consist

ADJ SPAC

3  
to North America". (My apologies - you now have IOI-Canada editing IOI-Canada's own writing!)



## News from Operational Centers

### Japan

Director: Dr. Tsutomu Fuse  
Yokohama City University  
22-2 seto, Kanazawa-ku,  
Yokohama 236  
Japan  
Tel. 81-45-787-2311  
Fax.81-45-787-2316  
Email:intercom@qb3.so-net.ne.jp

*sponsorship* Established in 1995 IOI-Japan has been active through its sponsorship of conferences and workshops. Yokohama City University recently bestowed upon Professor Borgese an Honorary Doctorate for all her contributions to the University and the Faculty of Humanities. Negotiations are ongoing between this center and IOI-Costa Rica regarding arrangements for an exchange between Himi City and Gulf of Nicoya fishermen.

### Fiji

Director: Dr. G. Robin South  
Marine Studies Programme  
University of South Pacific  
PO Box 1168  
Suva, Fiji  
Tel. 679-305-446 or 305-472  
Fax.679-301-490  
Email. south\_r@usp.ac.fj

*IOI-South Pacific*  
IOI-Pacific Islands was established in 1993 and operates under a Memorandum of Understanding with both the Government of Fiji and the University of the South Pacific. This year they are hosting the annual

*line appearing*  
Pacem in Maribus Conference as well as the annual meeting of the Board of Directors and the Planning Council.

*? on*  
According to Robin South, the Pacific Island Nations are moving towards the new millenium with a number of important issues on their agendas. "Our center is working through its training and advisory activities to focus these issues which include: climate change and sea level rise; manage-

ment and conservation of highly migratory fish stocks; sustainable development and conservation of coastal fisheries and marine biodiversity conservation."

### India

*space*  
Director: Professor R.Rajagopalan  
Foundation for Sustainable Development (India)  
IOI Office, ICSR Building  
Indian Institute of Technology Madras  
Chennai 600 036 India  
Tel. 91-44-445-8805  
Fax.91-44-230-1338  
Email. ioimas@md2.vsnl.net.in

*?*  
Since its establishment in 1993 the IOI Operational Center in India has become a self-sustaining center with an established reputation in the region for high quality training, community development and publications.

During the past six months the center has continued its research project "Plant Genetic Resources: Formal and Informal Knowledge Systems, Institutional Interests and Sustainability". The focus of the project is the local community and its knowledge system with reference to plant genetic resources. Another ongoing project, sponsored by the Japan Foundation for Global Environment aims to increase green cover, conserve water resources and promote ecotechnologies including rainwater harvesting in several coastal villages in Tamil Nadu.



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**We hope to bring  
together diverse  
expertise and  
knowledge  
to solve problems**

**Professor R.  
Rajagopalan**

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SOME URLS ARE IN ITALICS, OTHERS ARE NOT

**Major issues at our workshop included strengthening global and regional links in the Black Sea**  
**Dr. Alexandru Bologna**

### South Africa

Director : Dr. Derek Keats  
 IOI - Southern Africa  
 Botany Department, University of Western Cape,  
 P. Bag X17, Bellville 7535 South Africa  
 Tel. 2721-959-2594/2304  
 Fax. 2721-959-3573/2266  
 Email. dkeats@uwc.ac.za (Derek Keats)  
 http://www.ioi.nst.org/ioisa/

Since its establishment in 1996, IOI-Southern Africa has conducted training courses on Seaweed Mariculture for Community Development, has taken a leadership role in the creation of an IOI website and has provided advice to the Government of Angola on community mariculture initiatives.

In March 1999 the center embarked on a new training initiative, MIDeSS.learn, a web-based Integrated Coastal Management Training package. According to Professor Keats, the MIDeSS.learn component will provide web-based learning materials. The first module of MIDeSS.learn is under development at the present time. While the focus is South African, the course will be available globally via the medium of the internet. For further details contact the MIDeSS.learn website at:  
 http://midesslearn.uwc.ac.za

A course on Seaweed Mariculture for Community Development is scheduled to be held from 24 November to 10 December. The course targets community leaders and organisations as well as graduate students of phycology and mariculture from coastal communities of Sub-Saharan Africa, especially Namibia, Angola, South Africa, Mozambique, Tanzania, Kenya, Seychelles, Mauritius, Comoros and Madagascar.

DIFFERENT WAY OF PUTTING DATE

CH

### Senegal

Director: Dr. Diafara Touré  
 Centre de Recherches Oceanographiques de Dakar - Thiaroy  
 B.P. 2241 Dakar, Senegal  
 Tel. 221-834-8041 or 8280  
 Fax. 221-834-2792  
 Email. dtoure@crodt.isra.sn (Diafara Touré)

Established in 1994, this center conducted several courses in French on the Management and Development of Small Scale Fisheries in Western Africa and published materials to accompany these courses. A course on Biodiversity and Productivity of Marine and Coastal Ecosystems from August 2-14 brought together 31 participants from Togo, Benin, Gabon, Chad, Central Africa and Senegal. The course was coordinated by Djiby Thiam, a biostatistician at CRODT.

### Romania

Director: Dr. Alexandru S. Bologna  
 IOI-Black Sea Operational Center  
 Romanian Marine Research Institute  
 Bd. Mamaia 300, RO-8700 Constanta 3, Romania  
 Tel. 40-41-543288/540870  
 Fax. 40-41-831274  
 Email. abologna@alpha.rmri.ro

Established in 1997 by agreement between IOI and the Black Sea University Foundation in Bucharest, this center hosted an international leadership seminar in September, 1999, "Using Today's Scientific Knowledge for the Black Sea Area's Development Tomorrow", brought together representatives from nineteen research institutes from Bulgaria, Romania, Russian Federation and the Ukraine. According to Professor Bologna the meetings provided a valuable opportunity for participants to share information regarding the degradation of the Black Sea. Papers presented during the seminar will soon be published by this center.

N.B. EMS JUST GIVEN ANOTHER HON. DIST.

### Tribute to Arvid Pardo

by  
Elisabeth Mann Borgese

Arvid Pardo, the father of the contemporary Law of the Sea, the inspirer of Pacem in Maribus and the International Ocean Institute, died on July 19, 1999 in Seattle, Washington, after a long illness. He was 85 years of age.

Most of his creative work was accomplished by 1974, when he was forced to leave the Foreign Service of his home country, Malta. ~~Most~~ <sup>Many</sup> of his ideas from this era can be found in *The Common Heritage of Mankind*, published by the Malta University Press in 1974.

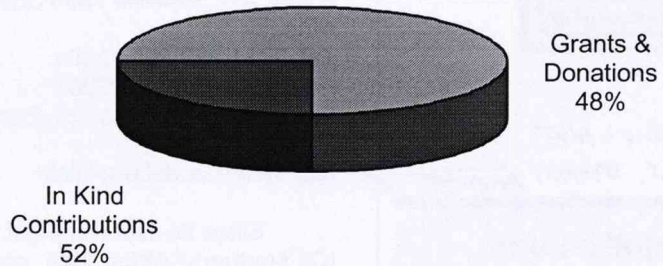
After 1974, Arvid Pardo joined the faculty of the University of Southern California in Los Angeles where he taught international relations and law of the sea until his retirement in 1984.

Although deeply disappointed with the results and the aftermath of UNCLOS III, he remained a faithful participant and wise counsellor of Pacem in Maribus and all other activities of the International Ocean Institute. We owe him a profound debt which we can repay only by trying to continue, develop and propagate his great ideas.

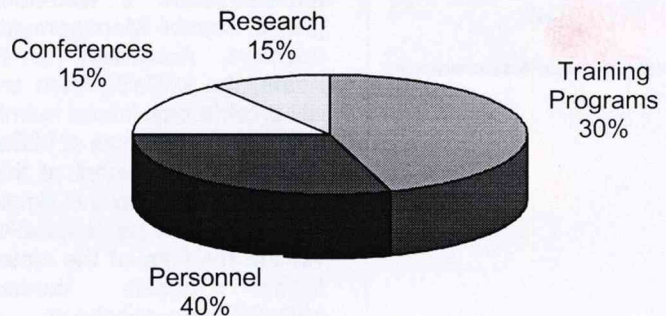
Though little known to the world at large, Arvid Pardo was one of the great men of the twentieth century who has contributed decisively to shaping the world of the twenty-first. He had an encyclopaedic mind and, like most men of genius, a complex temperament, phlegmatic and intensely productive at the same time, committed and detached; idealistic and realistic; revolutionary and conservative; religious and cynical. His disappearance marks the end of an era.

### Focus on Finances

**Total Income for 1998**  
**\$US 1,365,860**



**Total Expenditures for 1998**  
**\$US 1,445,683**



This information is based on the audited reports and financial statements prepared by Deloitte & Touche on May 4th 1999.





INTERNATIONAL  
OCEAN INSTITUTE  
CANADA

DALHOUSIE  
University



FAXED

FACSIMILE TRANSMISSION

*1. Lyle 1  
passed in empty  
correctly. 4 1/2  
hours sleep x 2  
nights doesn't  
make for crystal-  
clear thinking. MCI*

**TO** Anita Coady  
**FAX** 1-902-248-2113  
**TEL** 1-902-248-2811  
**FROM** Darlene, Madeleine and Ying  
International Ocean Institute – Canada, Dalhousie University  
**FAX** 902-494-2034  
**TEL** 902-494-1737  
**RE** **Across the Oceans**  
**DATE** October 8, 1999  
**PAGES** 9

Dear Anita,

I hope this doesn't cause you too much grief – having to re-edit ATO. Some of our suggestions may seem too picky and I assume you will do as you wish with them. To make it easier to understand we are outlining some of the changes in the text of this fax but you could also refer to the faxed newsletter for the corrections.

1. **Millennium** is spelt with 2n's.
2. In the information brochure sent by IOI – Southern Africa **centre** is spelt re and not er.
3. In the first column on page 1: spelling **Tumari'i**, A Vision of the Future for **the** Islands".
4. In the brochure for PIMXXVII Tuiloma's address is entitled "UNCED + 7 and Barbados: Where are we now?"
5. Should you add Malta's address to the advertisement of the Executive Director's position?
6. 3rd column, page 1: We assume the Executive committee is part of the Governing Board so would this work better:

## Governing Board

### Executive Committee

...list

### Members

...list

and then you could remove Executive committee from the contents.

7. Committee is missing an e at the bottom of the 1st column on page 2.
8. Xs indicate what seems to be extra spaces. Missing spaces are circled.
9. Column 2 of page 2: 1st paragraph **undertaken** is missing an r; there is a line missing between the first and second paragraphs; perhaps you could change The meetings agreed on the following actions: to **The following actions were agreed upon at the meetings;**; there is a line missing before the title **Headquarters**.
10. **Tel. Fax. Email:** are inconsistent in that sometimes there is a full stop and other times a colon and sometimes there is a space and other times not.
11. News from Operational Centres: should add IOI – Canada, Dalhousie University to our address; should add IOI – Operational Centre China and State Oceanic Administration to IOI – China’s address and correct spelling on **Tianjin**; check hyphens in tel and fax numbers; Gutiérrez is missing an accent; should add IOI – Costa Rica, IOI – Japan, IOI – South Pacific and IOI – India, IOI – Senegal to their respective addresses.
12. On page 4, 1st column sponsorship should be **sponsorship**; IOI – Pacific Islands should be **IOI – South Pacific**.
13. On page 5, bottom of 1st column **Namibia**, 2nd column 1st para. **accompany**.

Dear Anita,

Darlene started this fax but has now had to go, so I’ve inherited it. Ying has also passed on some comments, and left for the day, so I hope I can finish without misrepresenting anyone! I’m slightly concerned about the legibility of some of the comments which we’ve added to the original, so I’ll also go through and see if anything needs spelling out further...

Comments from Ying: (1) *UNEP/GPA News Forum* needs to be italicised; (2) there isn’t consistency in spacing between IOI and Operational Centre name, i.e IOI-Canada or IOI - Canada; (iii) there’s also inconsistency in the use of numbering, e.g. IOI - Canada section refers to 18 participants, whereas IOI - China section spells out “one hundred”; (iv) the official IOI portfolio uses “centres” rather than “centers”. She would also like you to drop the reference to her on p.2 so that it reads: “Since then, IOI - Canada has taken a lead role in the design and

implementation of the project. Ongoing work in the Operational Centres includes soliciting news articles on the implementation of the GPA." In addition, she said it should state that the contract was signed by IOI and the UNEP/GPA Coordination Office (spelling it out in full since it's the first time it's mentioned).

It's sometimes hard to tell whether there's a problem with double-spacing or whether it's just the effect of the justification. A search for double spacing would be quicker than wading through all the Xs we've added! It might also be worth doing one for space colon.

Maybe we could keep coming up with things if we kept looking at it, but I think that covers most of it - and no doubt there's far more than you wanted! Apologies for creating extra work for you - not the ideal way to spend a Thanksgiving Weekend, particularly as you must already have put a lot of time and effort into this. But it's nice that we've got a new issue of Across the Oceans, so I hope you feel the headache is worth it...

I hope all's well up there in Margaree. Are your leaves turning yet? It's still remarkably green here in Halifax.

Love,

*Madeleine*

P.S. I'm currently planning on working on Monday, so you're welcome to contact me if you have any queries.

From: **International Ocean Institute** <mcoffensmout@Kilcom1.UCIS.Dal.Ca>  
To: **ACoady8315@aol.com**  
Subject: **Re: October ATO Revisions**  
Date sent: **Thu, 21 Oct 1999 09:54:05 AST**

Dear Anita,

Thanks for the latest version of ATO. I'm afraid it didn't get here until after 9.00 p.m. on Tuesday, so I wasn't around to respond by the end of the day! And Wednesday is my day off, so I found it only this morning. Maybe it's now too late to give you feedback, but if not, here it is...

Thanks for making so many changes. It is looking great! I didn't double-check everything, but would just mention a few points:

Page 1: there is still an "e" missing at the end of Committee in the Table of Contents, and an apostrophe missing in Tamari'i Tutangata's name.

Page 2: Ying noticed that there's still an error in the URL for the News Forum, which wasn't picked up by any of us in the earlier version. It should be: <<http://gpanews.unep.org>>. Apologies for our not noticing it earlier. In the references to both UNEP and GPA in that first paragraph, Programme also needs the "me" at the end as they're official titles, and apparently UNEP is quite picky about the spelling.

Page 4: The box with Rajagopalan's quotation presumably needs shading. (Again, this is something we didn't notice in the previous version.)

Page 5: There is still a typo in "Productivity" in the Senegal section.

Page 6: Since the pie charts had already been discussed, we'd not mentioned it in our fax of revisions. Are the percentages going to be reflected in the size of the pie slices? It would certainly look better and be less confusing.

In general, though, it is looking much better. I hope these final comments will help.

Please could you send me the final version when it's ready. As I mentioned, EMB wants me to send some information to somebody, and I'm also keen to put it on the website as soon as it's available.

Love,

Madeleine.


From: ACoady8315@aol.com  
Date sent: Tue, 19 Oct 1999 21:15:37 EDT  
Subject: October ATO Revisions  
To: mcoffensmout@kilcom1.ucis.dal.ca (International Ocean Institute)

> Hi  
>  
> I'm attaching the most recent version, which incorporates most of  
> your suggestions, Can you get back to me by the end of the day with

- > further comments, suggestions.
- >
- > anita



# ◆ Across the Oceans ◆

 Newsletter of the International Ocean Institute

October 1999



## PIM at a glance

From November 8th to 12th, over 150 international and regional experts on the oceans will converge at the University of the South Pacific to attend an important conference on ocean governance and marine issues. The International Ocean Institute - South Pacific (IOI-SP) and the University of the South Pacific (USP) will host the twenty-seventh Pacem in Maribus Conference (PIM XXVII) at the Marine Studies Complex on the campus of USP in Suva, Fiji. The Rt. Hon. Ratu Sir Kamisese Mara, President of the Republic of Fiji will officially open the Conference November 8th. The theme of the conference is *Oceans in the New Millennium: Challenges and Opportunities for Islands*. Four plenary addresses and a series of panels have been designed to develop resolutions of relevance to small island developing states.

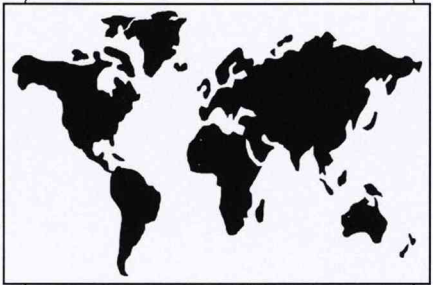
Previous PIM Conferences were considered milestone events in fostering understanding of threats to the world's oceans as well as the potential of ocean resources to sustain humankind. "PIM XXVII will provide a forum where the challenges of ocean space can be further considered in their interconnectedness and treated as a whole", notes Dr. Esther Williams, Chair of the PIM Secretariat. Special speakers during the conference include Mr. Tamariti Tutangata from Samoa who will deliver the first keynote address "UNCED + 5 : A Vision of the Future for the Islands" while H.E. Tuiroma Neroni Slade will address the second plenary "Developments since UNCED and Barbados: Where are we now?" on Tuesday morning. That evening, Professor Guido de Marco, President of Malta will deliver a public lecture. For more details consult <http://www.usp.ac.fj/loi>.

## Employment Opportunity

IOI is seeking applicants for the position of Executive Director.

Deadline: May 2000  
Starting Date: May 2001  
Salary: US\$ 60,000

Address inquiries to:  
IOI Headquarters,  
University of Malta, PO Box 3  
Gzira, GZR 01 MALTA



## Members of Governing Board

- Salvino Busuttil  
Malta
- Nikolaus Gelpke  
Switzerland
- Fujiko Hara  
Japan
- Jorge Mora Alfaro  
Costa Rica
- Alassane Dialy Ndiaye  
Senegal
- R. Natarajan  
India
- Christopher Pinto  
Sri Lanka
- Bhagwat Singh  
India
- Esekia Solofa  
Fiji
- Yoshio Suzuki  
Japan
- Anton Vratusa  
Slovenia
- Layashi Yaker  
France

## Members of Executive Committee

- Elisabeth Mann Borgese  
Founder  
Canada
- Joseph Warioba  
President  
Tanzania
- Alexander Yankov  
Vice President  
Bulgaria
- Anita Coady  
Treasurer  
Canada
- Tsutomu Fuse  
Chair Planning Council  
Japan
- Gunnar Kullenberg  
Secretary  
Executive Director  
Sweden

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PIM XXVII at a glance	1
Employment opportunity at IOI	1
Governing Board	1
Executive Committee	1
Operational Centers	2-5
Tribute to Arvid Pardo	6

## Network News

Several projects launched this year will involve most of our centers, notes Dr Gunnar Kullenberg, Executive Director. In May 1999 an agreement was signed by IOI and the United Nations Environment Program (UNEP) Global Program of Action Coordination Office to develop a News Forum, a dynamic and interactive news information and discussion service. Since then, IOI-Canada has taken a lead role in the design and implementation of the project. Work is ongoing in other operational centers including the soliciting of news articles on the implementation of the GPA. The GPA Clearing-House and News Forum is now online. Check out the online edition at :  
<http://gpa.unep.org>

Another new project on Risk Assessment is underway in cooperation with Swiss Reinsurance Company of Zurich. At the present time, one training module has been tested during the 1999 course in Halifax. Additional case studies and background materials will be produced by operational centers for presentation at the Bermuda Biological Station in February 2000.

A recent grant of one million Swiss francs to the IOI has launched a program on Women and the Sea. These funds will be used to enhance participation of women in all IOI activities.

The Canadian International Development Agency (CIDA) confirmed in June 1999 its ongoing support to IOI by announcing a grant of CAD\$ 594,000 to cover the period April 1999 to March 2002.

In early June, IOI headquarters hosted meetings of the Executive Committee of the Board, and Directors of Operational Centers. The meetings included a review of the activities of all centers; as well as

an assessment of finances; and planning for major activities to be undertaken in 2000 and 2001.

The following actions were agreed upon at the meetings:

- launching of an IOI Youth Program, possibly in cooperation with the Hellenic Marine Environment Protection Association (HELMEPA )
- preparation of a book on IOI Alumni
- preparation of poster presentations by all centers at 1999 PIM Conference
- launching of a dynamic marketing campaign
- preparation of an overview of coastal zone areas where IOI centers are active
- preparation of a history of IOI
- preparation of a bibliography of IOI publications

## Headquarters

IOI has close ties with the government of Malta and the University of Malta. Today the headquarters are located on the campus of the University of Malta which houses the office of the Executive Director, Dr. Gunnar Kullenberg and three support staff.

University of Malta  
 PO Box 3, Gzira GZR 01 MALTA  
 Tel : 356-346-528/9  
 Fax : 356-346-502  
 E-mail : ioimla@kemmnet.net.mt  
<http://www.ioi.nst.org/loisal>

The Operational Center in Malta has been reconstituted with three program elements : research; training and public awareness; and studies of the Principle of Common Heritage of Mankind. Fr. Peter Serracino Inglott directs this center.




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**How do we  
 ensure that our  
 centers partici-  
 pate in system-  
 wide projects and  
 benefit from  
 them?  
 Dr. Kullenberg**

---



**It is generally  
agreed that it is  
desirable for  
IOI to expand  
its network**

**Dr. Kullenberg**

## News from Operational Centers

### Canada

Director : Mr. Robert Race  
1226 LeMarchant Street  
Dalhousie University  
Halifax, Nova Scotia  
Canada B3H 3P7  
Tel : 1-902-494-6623 / 1737  
Fax : 1-902-494-2034  
E-mail : ioihfx@dal.ca  
<http://www.dal.ca/ioihfx/>

Established in 1980 by Dr. Elisabeth Mann Borgese, this center is located on the campus of Dalhousie University. Major activities include the annual ten week summer training program which is now in its 19th year. This year's Course Director was Dr. Noel Brown, former head of UNEP's Regional Office for North America in New York. The program was attended by 18 participants from 17 countries. During the course, a five-day training module was conducted on the Enhanced Role of Risk Management in Integrated Coastal Area Management. This module was produced as part of a larger, ongoing project to enhance the role of Risk Management in Coastal Area Management, the next phase of which will include organising a workshop at the Bermuda Biological Station in February 2000. The training materials for the module will be presented there, as well as a background paper produced by IOI-Canada to complement case studies prepared by other IOI centers.

Another major project is the UNEP/GPA News Forum, a dynamic, interactive news information and discussion service within the clearing-house mechanism of the Global Programme of Action for the Protection of the Marine Environment from Land-based Activities. Staff from Halifax attended the September launch in New York which provided a preview of the services which this initiative will offer. Other ongoing activities include the editing of Ocean Yearbook, Volume 15 for release in 2000.

### China

Director : Prof. Hou Wenfeng  
National Marine Data & Info Service  
State Oceanic Administration  
93 Liuwei Road, Hedong District  
Tianjin 300171, China  
Tel : 86-22430-1292/1297  
Fax : 86-22430-4408  
E-mail : ioi@netra.nmdis.gov.cn

Established in 1994 by a memorandum of understanding between the State Oceanic Administration of China and IOI this center has been very active. In late September IOI-China co-sponsored a Workshop on Cities and Coasts in Hangzhou. IOI was represented by the Executive Director as well as the Director of IOI-India and IOI-Japan. The three days of meetings brought together more than 100 participants from the region.

### Costa Rica

Director: Dr. Alejandro Gutierrez  
Universidad Nacional  
PO Box 86, Heredia 3000  
Costa Rica  
Tel : 506-277-3594  
Fax : 506-260-2546  
E-mail : gechever@una.ac.cr

Established in 1994, this center is located on the campus of the Universidad Nacional in Heredia. A recent agreement of collaboration with INRECOSMAR, a national organisation working in the coastal communities along the Gulf of Nicoya region, will advance the center's coastal management initiatives. Publishing projects include the release to UNEP of brochures on the Caribbean, the Mediterranean, the Pacific and the Indian Oceans. New activities include a workshop on disaster mitigation in cooperation with the National Oceanic and Atmospheric Agency (NOAA) and a training course on Economic Evaluation of Wetlands to be co-sponsored by the International Union for the Conservation of Nature (IUCN).

## News from Operational Centers

### Japan

Director : Dr. Tsutomu Fuse  
 Yokohama City University  
 22-2 seto, Kanazawa-ku,  
 Yokohama-Shi 236-0027  
 Japan  
 Tel : 81-45-787-2311  
 Fax : 81-45-787-2316  
 E-mail : intercom@qb3.so-net.ne.jp

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 Marine Studies Programme  
 University of the South Pacific  
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 Suva, Fiji  
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 E-mail : south\_r@usp.ac.fj  
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### India

Director : Professor R. Rajagopalan  
 Foundation for Sustainable Development (India)  
 IOI Office, ICSR Building  
 Indian Institute of Technology  
 Madras  
 Chennai 600 036 India  
 Tel : 91-44-445-8805  
 Fax : 91-44-230-1338  
 E-mail : ioimas@md2.vsnl.net.in

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**Professor R.  
 Rajagopalan**

↑  
 need shading  
 i- box?



**Major issues  
at our workshop  
included strengthening  
global and  
regional links in the  
Black Sea  
Dr. Alexandru  
Bologa**

### South Africa

Director : Dr. Derek Keats  
Botany Department  
University of Western Cape,  
P Bag X17, Bellville  
7535 South Africa  
Tel : 2721-959-2594/2304  
Fax : 2721-959-3573/2266  
E-mail : [dkeats@uwc.ac.za](mailto:dkeats@uwc.ac.za) (Derek Keats)

<http://www.ioi.nst.org/loisa/>

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### Senegal

Director : Dr. Diafara Toure  
Centre de Recherches  
Oceanographiques de Dakar - Thiaroy  
B.P. 2241 Dakar, Senegal  
Tel : 221-834-8041 or 8280  
Fax : 221-834-2792  
E-mail : [dtoure@crodt.isra.sn](mailto:dtoure@crodt.isra.sn) (Diafra Toure)

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Director : Dr. Alexandru S. Bologa  
Romanian Marine Research Institute  
Bd.Mamaia 300,  
RO-8700 Constanta 3, Romania  
Tel : 40-41-543288/540870  
Fax : 40-41-831274  
E-mail : [abologa@alpha.rmri.ro](mailto:abologa@alpha.rmri.ro)

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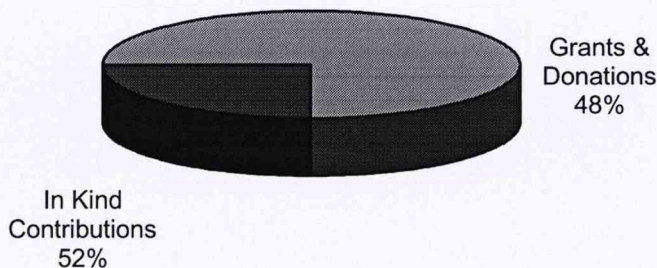
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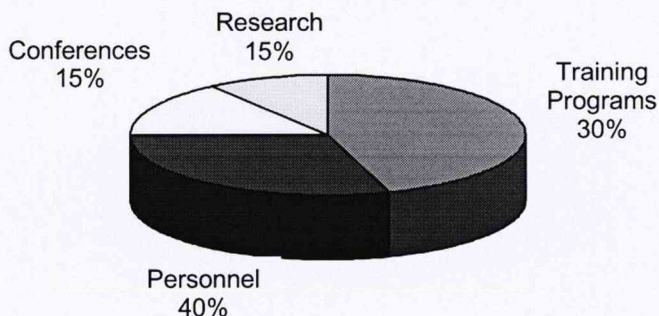
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# ◆ Across the Oceans ◆



Newsletter of the International Ocean Institute

October 1999



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## Members of Governing Board

Salvino Busuttil  
Malta

Nikolaus Gelpke  
Switzerland

Fujiko Hara  
Japan

Jorge Mora Alfaro  
Costa Rica

Alassane Dialy Ndiaye  
Senegal

R. Natarajan  
India

Christopher Pinto  
Sri Lanka

Bhagwat Singh  
India

Esekia Solofa  
Fiji

Yoshio Suzuki  
Japan

Anton Vratusa  
Slovenia

Layashi Yaker  
France

## Members of Executive Committee

Elisabeth Mann Borgese  
Founder  
Canada

Joseph Warioba  
President  
Tanzania

Alexander Yankov  
Vice President  
Bulgaria

Anita Coady  
Treasurer  
Canada

Tsutomu Fuse  
Chair Planning Council  
Japan

Gunnar Kullenberg  
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Executive Director  
Sweden

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## Headquarters

IOI has close ties with the government of Malta and the University of Malta. Today the headquarters are located on the campus of the University of Malta which houses the office of the Executive Director, Dr. Gunnar Kullenberg and three support staff.

University of Malta  
PO Box 3, Gzira GZR 01 MALTA  
Tel : 356-346-528/9  
Fax : 356-346-502  
E-mail : [ioimla@kemmnet.net.mt](mailto:ioimla@kemmnet.net.mt)  
<http://www.ioi.nst.org/loisa/>

The Operational Center in Malta has been reconstituted with three program elements : research; training and public awareness; and studies of the Principle of Common Heritage of Mankind. Fr. Peter Serracino Inglott directs this center.




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**How do we  
ensure that our  
centers partici-  
pate in system-  
wide projects and  
benefit from  
them?  
Dr. Kullenberg**

---





**It is generally  
agreed that it is  
desirable for  
IOI to expand  
its network**

**Dr. Kullenberg**

## News from Operational Centers

### Canada

Director : Mr. Robert Race  
1226 LeMarchant Street  
Dalhousie University  
Halifax, Nova Scotia  
Canada B3H 3P7  
Tel : 1-902-494-6623 / 1737  
Fax : 1-902-494-2034  
E-mail : ioihfx@dal.ca  
<http://www.dal.ca/ioihfx/>

Established in 1980 by Dr. Elisabeth Mann Borgese, this center is located on the campus of Dalhousie University. Major activities include the annual ten week summer training program which is now in its 19th year. This year's Course Director was Dr. Noel Brown, former head of UNEP's Regional Office for North America in New York. The program was attended by 18 participants from 17 countries. During the course, a five-day training module was conducted on the Enhanced Role of Risk Management in Integrated Coastal Area Management. This module was produced as part of a larger, ongoing project to enhance the role of Risk Management in Coastal Area Management, the next phase of which will include organising a workshop at the Bermuda Biological Station in February 2000. The training materials for the module will be presented there, as well as a background paper produced by IOI-Canada to complement case studies prepared by other IOI centers.

Another major project is the UNEP/GPA News Forum, a dynamic, interactive news information and discussion service within the clearing-house mechanism of the Global Programme of Action for the Protection of the Marine Environment from Land-based Activities. Staff from Halifax attended the September launch in New York which provided a preview of the services which this initiative will offer. Other ongoing activities include the editing of Ocean Yearbook, Volume 15 for release in 2000.

### China

Director : Prof. Hou Wenfeng  
National Marine Data & Info Service  
State Oceanic Administration  
93 Liuwei Road, Hedong District  
Tianjin 300171, China  
Tel : 86-22430-1292/1297  
Fax : 86-22430-4408  
E-mail : ioi@netra.nmdis.gov.cn

Established in 1994 by a memorandum of understanding between the State Oceanic Administration of China and IOI this center has been very active. In late September IOI-China co-sponsored a Workshop on Cities and Coasts in Hangzhou. IOI was represented by the Executive Director as well as the Director of IOI-India and IOI-Japan. The three days of meetings brought together more than 100 participants from the region.

### Costa Rica

Director: Dr. Alejandro Gutierrez  
Universidad Nacional  
PO Box 86, Heredia 3000  
Costa Rica  
Tel : 506-277-3594  
Fax : 506-260-2546  
E-mail : gechever@una.ac.cr

Established in 1994, this center is located on the campus of the Universidad Nacional in Heredia. A recent agreement of collaboration with INRECOSMAR, a national organisation working in the coastal communities along the Gulf of Nicoya region, will advance the center's coastal management initiatives. Publishing projects include the release to UNEP of brochures on the Caribbean, the Mediterranean, the Pacific and the Indian Oceans. New activities include a workshop on disaster mitigation in cooperation with the National Oceanic and Atmospheric Agency (NOAA) and a training course on Economic Evaluation of Wetlands to be co-sponsored by the International Union for the Conservation of Nature (IUCN).

## News from Operational Centers

### Japan

Director : Dr. Tsutomu Fuse  
Yokohama City University  
22-2 seto, Kanazawa-ku,  
Yokohama-Shi 236-0027  
Japan  
Tel : 81-45-787-2311  
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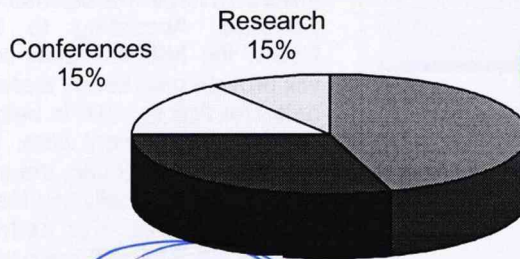
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*Why isn't this fully justified?*

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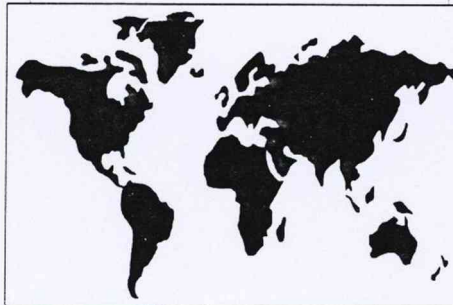
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## Members of Governing Board

Salvino Busuttil  
Malta

Nikolaus Gelpke  
Switzerland

Fujiko Hara  
Japan

Jorge Mora Alfaro  
Costa Rica

Alassane Dialy Ndiaye  
Senegal

R. Natarajan  
India

Christopher Pinto  
Sri Lanka

Bhagwat Singh  
India

Esekia Solofa  
Fiji

Yoshio Suzuki  
Japan

Anton Vratusa  
Slovenia

Layashi Yaker  
France

## Members of Executive Committee

Elisabeth Mann Borgese  
Founder  
Canada

Joseph Warioba  
President  
Tanzania

Alexander Yankov  
Vice President  
Bulgaria

Anita Coady  
Treasurer  
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Chair Planning Council  
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University of Malta  
PO Box 3, Gzira GZR 01 MALTA  
Tel : 356-346-528/9  
Fax : 356-346-502  
E-mail : [ioimla@kemmnet.net.mt](mailto:ioimla@kemmnet.net.mt)  
<http://www.ioi.nst.org/ioisa/>

The Operational Center in Malta has been reconstituted with three program elements : research; training and public awareness; and studies of the Principle of Common Heritage of Mankind. Fr. Peter Serracino Inglott directs this center.




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pate in system-  
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them?  
Dr. Kullenberg**

---

## News from Operational Centers



**It is generally  
agreed that it is  
desirable for  
IOI to expand  
its network**

**Dr. Kullenberg**

### Canada

Director : Mr. Robert Race  
1226 LeMarchant Street  
Dalhousie University  
Halifax, Nova Scotia  
Canada B3H 3P7  
Tel : 1-902-494-6623 / 1737  
Fax : 1-902-494-2034  
E-mail : ioihfx@dal.ca  
<http://www.dal.ca/ioihfx/>

Established in 1980 by Dr. Elisabeth Mann Borgese, this center is located on the campus of Dalhousie University. Major activities include the annual ten week summer training program which is now in its 19th year. This year's Course Director was Dr. Noel Brown, former head of UNEP's Regional Office for North America in New York. The program was attended by 18 participants from 17 countries. During the course, a five-day training module was conducted on the Enhanced Role of Risk Management in Integrated Coastal Area Management. This module was produced as part of a larger, ongoing project to enhance the role of Risk Management in Coastal Area Management, the next phase of which will include organising a workshop at the Bermuda Biological Station in February 2000. The training materials for the module will be presented there, as well as a background paper produced by IOI-Canada to complement case studies prepared by other IOI centers.

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### China

Director : Prof. Hou Wenfeng  
National Marine Data & Info Service  
State Oceanic Administration  
93 Liuwei Road, Hedong District  
Tianjin 300171, China  
Tel : 86-22430-1292/1297  
Fax : 86-22430-4408  
E-mail : ioi@netra.nmdis.gov.cn

Established in 1994 by a memorandum of understanding between the State Oceanic Administration of China and IOI this center has been very active. In late September IOI-China co-sponsored a Workshop on Cities and Coasts in Hangzhou. IOI was represented by the Executive Director as well as the Director of IOI-India and IOI-Japan. The three days of meetings brought together more than 100 participants from the region.

### Costa Rica

Director: Dr. Alejandro Gutierrez  
Universidad Nacional  
PO Box 86, Heredia 3000  
Costa Rica  
Tel : 506-277-3594  
Fax : 506-260-2546  
E-mail : gechever@una.ac.cr

Established in 1994, this center is located on the campus of the Universidad Nacional in Heredia. A recent agreement of collaboration with INRECOSMAR, a national organisation working in the coastal communities along the Gulf of Nicoya region, will advance the center's coastal management initiatives. Publishing projects include the release to UNEP of brochures on the Caribbean, the Mediterranean, the Pacific and the Indian Oceans. New activities include a workshop on disaster mitigation in cooperation with the National Oceanic and Atmospheric Agency (NOAA) and a training course on Economic Evaluation of Wetlands to be co-sponsored by the International Union for the Conservation of Nature (IUCN).

## News from Operational Centers

### Japan

Director : Dr. Tsutomu Fuse  
Yokohama City University  
22-2 seto, Kanazawa-ku,  
Yokohama-Shi 236-0027  
Japan  
Tel : 81-45-787-2311  
Fax : 81-45-787-2316  
E-mail : intercom@qb3.so-net.ne.jp

Established in 1995 IOI-Japan has been active through its sponsorship of conferences and workshops. Yokohama City University recently bestowed upon Professor Borgese an Honorary Doctorate for all her contributions to the University and the Faculty of Humanities. Negotiations are ongoing between this center and IOI-Costa Rica regarding arrangements for an exchange between Himi City and Gulf of Nicoya fishermen.

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Director : Dr. G. Robin South  
Marine Studies Programme  
University of the South Pacific  
PO Box 1168  
Suva, Fiji  
Tel : 679-305-446 or 305-472  
Fax : 679-301-490  
E-mail : south\_r@usp.ac.fj  
<http://www.usp.ac.fj/ioi>

IOI-South Pacific was established in 1993 and operates under a Memorandum of Understanding with both the Government of Fiji and the University of the South Pacific. This year they are hosting the annual Pacem in Maribus Conference as well as the annual meeting of the Governing Board and the Planning Council.

According to Robin South, the Pacific Island Nations are moving towards the new millennium with a number of important issues on their agendas. "Our center is working through its training and advisory activities to focus on these issues which include: climate

change and sea level rise; management and conservation of highly migratory fish stocks; sustainable development and conservation of coastal fisheries and marine biodiversity conservation."

### India

Director : Professor R. Rajagopalan  
Foundation for Sustainable Development (India)  
IOI Office, ICSR Building  
Indian Institute of Technology  
Madras  
Chennai 600 036 India  
Tel : 91-44-445-8805  
Fax : 91-44-230-1338  
E-mail : ioimas@md2.vsnl.net.in

Since its establishment in 1993 the IOI-Operational Center in India has become a self sustaining center with an established reputation in the region for high quality training, community development and publications.

During the past six months the center has continued its research project "Plant Genetic Resources : Formal and Informal Knowledge Systems, Institutional Interests and Sustainability". The focus of the project is the local community and its knowledge system with reference to plant genetic resources. Another ongoing project, sponsored by the Japan Foundation for Global Environment aims to increase green cover, conserve water resources and promote ecotechnologies including rainwater harvesting in several coastal villages in Tamil Nadu.



**We hope to bring  
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**Professor R.  
Rajagopalan**





**Major issues  
at our workshop  
included strengthening  
global and  
regional links in the  
Black Sea  
Dr. Alexandru  
Bologa**

## South Africa

Director : Dr. Derek Keats  
Botany Department  
University of Western Cape,  
P Bag X17, Bellville  
7535 South Africa  
Tel : 2721-959-2594/2304  
Fax : 2721-959-3573/2266  
E-mail : dkeats@uwc.ac.za (Derek  
Keats)  
<http://www.ioi.nst.org/ioisa/>

Since its establishment in 1996, IOI-Southern Africa has conducted training courses on Seaweed Mariculture for Community Development, has taken a leadership role in the creation of an IOI website and has provided advice to the Government of Angola on community mariculture initiatives.

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A course on Seaweed Mariculture for Community Development is scheduled to be held from November 24th to December 10th. The course targets community leaders and organisations as well as graduate students of phycology and mariculture from coastal communities of Sub-Saharan Africa, especially Namibia, Angola, South Africa, Mozambique, Tanzania, Kenya, Seychelles, Mauritius, Comoros and Madagascar.

## Senegal

Director : Dr. Diafara Toure  
Centre de Recherches  
Oceanographiques de Dakar - Thiaroy  
B.P. 2241 Dakar, Senegal  
Tel : 221-834-8041 or 8280  
Fax : 221-834-2792  
E-mail : dtoure@crodt.isra.sn (Diafra  
Toure)

Established in 1994, this center conducted several courses in French on the Management and Development of Small Scale Fisheries in Western Africa and published materials to accompany these courses. A course on Biodiversity and Productivity of Marine and Coastal Ecosystems from August 2nd to 14th brought together 31 participants from Togo, Benin, Gabon, Chad, Central Africa and Senegal. The course was coordinated by Djiby Thiam, a biostatistician at CRODT.

## Romania

Director : Dr. Alexandru S. Bologa  
Romanian Marine Research Institute  
Bd.Mamaia 300,  
RO-8700 Constanta 3, Romania  
Tel : 40-41-543288/540870  
Fax : 40-41-831274  
E-mail : abologa@alpha.rmri.ro

Established in 1997 by agreement between IOI and the Black Sea University Foundation in Bucharest, this center hosted an international leadership seminar in September, 1999. "Using Today's Scientific Knowledge for the Black Sea Area's Development Tomorrow", brought together representatives from nineteen research institutes from Bulgaria, Romania, Russian Federation and the Ukraine. According to Professor Bologa the meetings provided a valuable opportunity for participants to share information regarding the degradation of the Black Sea. Papers presented during the seminar will soon be published by this center.

### Tribute to Arvid Pardo

by  
Elisabeth Mann Borgese

Arvid Pardo, the father of the contemporary Law of the Sea, the inspirer of *Pacem in Maribus* and the International Ocean Institute, died on July 19, 1999 in Seattle, Washington, after a long illness. He was 85 years of age.

Most of his creative work was accomplished by 1974, when he was forced to leave the Foreign Service of his home country, Malta. Most of his ideas from this era can be found in *The Common Heritage of Mankind*, published by the Malta University Press in 1974.

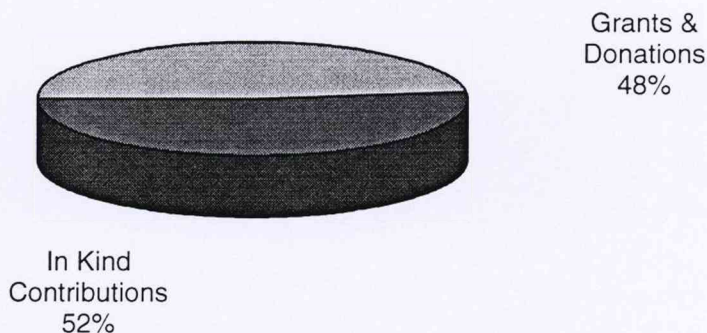
After 1974, Arvid Pardo joined the faculty of the University of Southern California in Los Angeles where he taught international relations and law of the sea until his retirement in 1984.

Although deeply disappointed with the results and the aftermath of UNCLOS III, he remained a faithful participant and wise counsellor of *Pacem in Maribus* and all other activities of the International Ocean Institute. We owe him a profound debt which we can repay only by trying to continue, develop and propagate his great ideas.

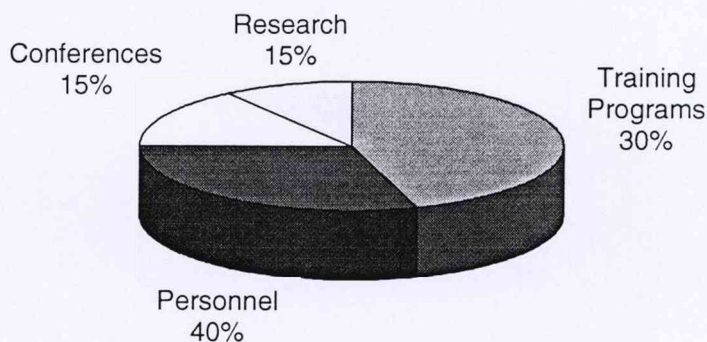
Though little known to the world at large, Arvid Pardo was one of the great men of the twentieth century who has contributed decisively to shaping the world of the twenty-first. He had an encyclopaedic mind and, like most men of genius, a complex temperament, phlegmatic and intensely productive at the same time, committed and detached; idealistic and realistic; revolutionary and conservative; religious and cynical. His disappearance marks the end of an era.

### Focus on Finances

**Total Income for 1998**  
**\$US 1,365,860**



**Total Expenditures for 1998**  
**\$US 1,445,683**



This information is based on the audited reports and financial statements prepared by Deloitte & Touche on May 4th 1999.





## ROUTING

Madeleine ✓

Ying

Francois

Darlene ✓

Rudd

Elisabeth

To be filed

Latest  
(?last)  
version

# Across the Oceans



Newsletter of the International Ocean Institute

October 1999



## PIM at a glance

From November 8th to 12th, over 150 international and regional experts on the oceans will converge at the University of the South Pacific to attend an important conference on ocean governance and marine issues. The International Ocean Institute - South Pacific (IOI-SP) and the University of the South Pacific (USP) will host the twenty-seventh Pacem in Maribus Conference (PIM XXVII) at the Marine Studies Complex on the campus of USP in Suva, Fiji. The Rt. Hon. Ratu Sir Kamisese Mara, President of the Republic of Fiji will officially open the Conference November 8th. The theme of the conference is *Oceans in the New Millenium: Challenges and Opportunities for Islands*. Four plenary addresses and a series of panels have been designed to develop resolutions of relevance to small island developing states.

Previous PIM Conferences are considered milestone events in fostering understanding of threats to the world's oceans as well as the potential of ocean resources to sustain humankind. "PIM XXVII will provide a forum where the challenges of ocean space can be further considered in their interconnectedness and treated as a whole", notes Dr. Esther Williams, Chair of the PIM Secretariat. Special speakers during the conference include Mr. Tamarii Tutangata from Samoa who will deliver the first keynote address "UNCED + 5 : A Vision of the Future for Islands" while H.E. Tuiloma Neroni Slade will address the second plenary "Developments since UNCED and Barbados" on Tuesday morning. That evening, Professor Guido de Marco, President of Malta will deliver a public lecture. For more details contact <http://www.usp.ac.fj/oi>.

## Employment Opportunity

IOI is seeking applicants for the position of Executive Director.

Deadline: May 2000  
 Starting Date: May 2001  
 Salary: US\$ 60,000  
 Address inquires to  
 Executive Director  
 IOI Headquarters, Malta



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Governing Board	1
Executive Committee	1
Operational Centers	2-5
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## Members of Governing Board

- Salvino Busuttil  
Malta
- Nikolaus Gelpke  
Switzerland
- Fujiko Hara  
Japan
- Jorge Mora Alfaro  
Costa Rica
- Alassane Dialy Ndiaye  
Senegal
- R. Natarajan  
India
- Christopher Pinto  
Sri Lanka
- Bhagwat Singh  
India
- Esekia Solofa  
Fiji
- Yoshio Suzuki  
Japan
- Anton Vratusa  
Slovenia
- Layashi Yaker  
France

## Members of Executive Committee

- Elisabeth Mann Borgese  
Founder  
Canada
- Joseph Warioba  
President  
Tanzania
- Alexander Yankov  
Vice President  
Bulgaria
- Anita Coady  
Treasurer  
Canada
- Tsutomu Fuse  
Chair Planning Council  
Japan
- Gunnar Kullenberg  
Secretary  
Executive Director  
Sweden

## Network News

Several projects launched this year will involve most of our centers notes Dr Gunnar Kullenberg, Executive Director. In May 1999 an agreement was signed by IOI and the United Nations Environment Program (UNEP) Global Program of Action for the production of a News Forum, a dynamic and interactive news information and discussion service. Since then, IOI-Canada has taken a lead role in the design and implementation of the project and Ms. Ying Watt has been responsible for much of the preparatory work which included soliciting written articles on marine pollution from various centers for inclusion in future issues. The GPA Clearing-House and News Forum is now online. Check out the online edition at "<http://www.gpa.unep.org>".

Another new project on Risk Assessment is underway in cooperation with Swiss Reinsurance Company of Zurich. At the present time, one training module has been tested during the 1999 course in Halifax. Additional case studies and background materials will be produced by operational centers for presentation at the Bermuda Biological Station in February 2000.

A recent grant of one million Swiss francs to the IOI has launched a program on Women and the Sea. These funds will be used to enhance participation of women in all IOI activities.

The Canadian International Development Agency (CIDA) confirmed in June 1999 its ongoing support to IOI by announcing a grant of CA\$ 594,000. to cover the period April 1999 to March 2002.

IOI headquarters hosted meetings of the Executive Committee of the Board and Directors & Operational Centers in 1999.

The meetings included a review of the activities of all centers; an assessment of finances; and planning for major activities to be undertaken in 2000 and 2001.

The meetings agreed on the following actions:

- launching of an IOI Youth Program, possibly in cooperation with the Hellenic Marine Environment Protection Association (HELMEPA).
- preparation of a book on IOI Alumni
- preparation of poster presentations by all centers at 1999 PIM Conference
- launching of a dynamic marketing campaign
- preparation of an overview of coastal zone areas where IOI centers are active
- preparation of a history of IOI
- preparation of a bibliography of IOI publications

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houwf@sun.ihep.ac.cn

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Centre de Recherches  
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IOI-Black Sea Operational Center  
Romanian Marine Research Institute  
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by  
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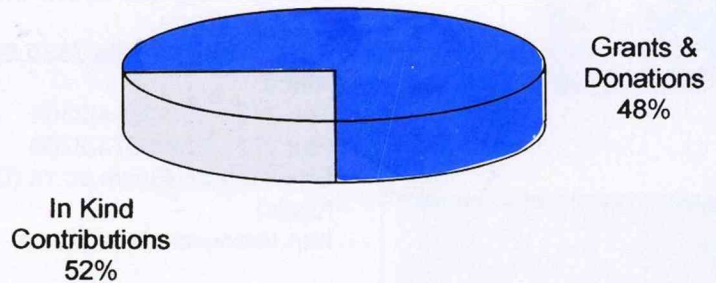
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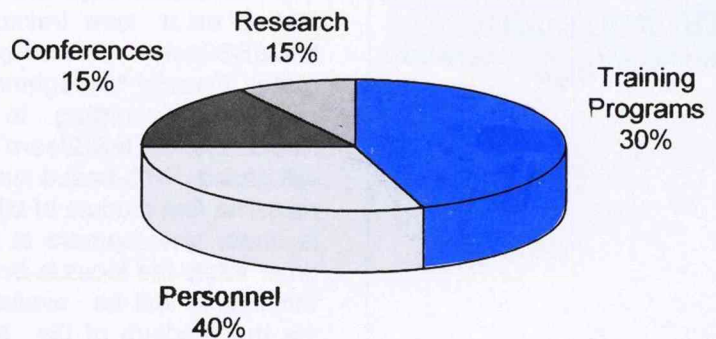
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INTERNATIONAL  
OCEAN INSTITUTE  
CANADA

DALHOUSIE  
University



FACSIMILE TRANSMISSION

**TO** Anita Coady  
**FAX** 1 902 248 2113

**FROM** Darlene Manning, Administrator  
International Ocean Institute – Canada, Dalhousie University

**FAX** 902-494-2034

**TEL** 902-494-1737

**RE** ATO

**DATE** Wednesday, May 17, 2000

**PAGES** 26

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Dear Anita,

Ying and I have gone through the newsletter and we have numerous suggestions to pass on to you. I don't think that the changes will take too long to do. Hopefully the formatting won't be too much of a problem.

There were numerous typos in the newsletter so I copied it into Word to spell check. That document is attached with the changes underlined and noted in the left hand margins but all the formatting – columns and margins – are gone. The formatting changes are indicated on the pdf version. I hope this isn't too confusing and cumbersome. For future reference please let us know what was useful to you.

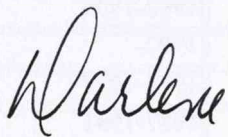
We have several suggestions for the overall document – most of which are intended to make the style of the document more consistent.

- ▶ The IOI logo is shadowed on some pages and not on others. You can either add the shadow on pages 1, 2 and 3 or remove it from pages 4 – 8.
- ▶ The lines between the columns do not extend far enough on the top on pages 2, 5, 6 and 7.
- ▶ The column margins vary a bit from page to page, especially on page 4 where there is no margin on the right of the first column and none on the left of the second column.

- ▶ I've filled in the missing information in places where there were "?s" and checked the contact information for the centres. I have indicated the information that we have in our office that is different from yours. It is difficult to keep the list up to date since the centres don't always notify us of changes. If you know your information is more accurate please let us know.
- ▶ The margins around the gray boxes vary from page to page, especially on page 4 where there is no left margin at all. Can you lengthen and narrow the box to increase the margin?
- ▶ The pie charts are still a problem. I redid them in Excel but I don't know if you can import them into Publisher. We will e-mail that file to you in case you can. If you can't use them we would suggest you switch the labels on the second chart to reflect the correct percentages.
- ▶ For consistency we would suggest standardizing the name of the centres, i.e.: IOI – Canada, with spaces before and after the dash.
- ▶ For what it is worth, our graphic designer says that printing convention would dictate that the first paragraph of any section would not be indented and that the paragraph following bullets would not be indented either. However, since the paragraphs in the newsletter are all indented we have indicated the paragraphs that need to be indented rather than following the convention.
- ▶ We have not edited the Fiji declaration.

We hope this is helpful and apologise for being so picky. If you have any questions please give us a call.

Yours sincerely,



# ◆ Across the Oceans ◆



## New Project

Establishing IOI as a virtual university is extremely ambitious, challenging, and innovative according to Professor Elisabeth Mann Borgese, who originally introduced the idea to the November 1999 meeting of the Governing Board. A report will be presented to the June 2000 meeting of the Executive Committee outlining how to implement such a project which may have enormous impact on IOI's education and training activities in all eleven operational centers. Members of the working group include Professor Borgese, Dr. Yankov, Professor Fuse and directors of operational centers in India, South Africa and Fiji.

This initiative responds to a number of challenges and new opportunities such as:

- the interdisciplinary character of contemporary knowledge which transcends the departmental divisions of traditional universities
- the globalization of the communications revolution
- the financial constraints on students especially in developing countries
- the financial constraints on academic institutions around the world resulting in downsizing and privatization of universities

The report will outline how IOI can continue to respond to training and education needs of people, especially in developing countries who are working in ocean sectors.

## New People

Professor Rudd Lubbers, former Prime Minister of the Netherlands has accepted IOI's invitation to join the Governing Board effective January 2000.

The IOI family continues to grow. During 1999 the IOI - Operational Center in Eastern Africa was established at the Kenya Marine Fisheries Research Institute in Mombasa.

## Employment Opportunity

IOI is seeking applicants for the position of Executive Director.

Deadline: May 2000  
Starting Date: May 2001  
Salary: US\$ 60,000

Address inquiries to:  
IOI Headquarters,  
University of Malta, PO Box 3  
Gzira, GZR 01 MALTA



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## Members of Governing Board

- Salvino Busuttil  
Malta
- Nikolaus Gelpke  
Switzerland
- Fujiko Hara  
Japan
- Jorge Mora Alfaro  
Costa Rica
- Alassane Dialy Ndiaye  
Senegal
- R. Natarajan  
India
- Christopher Pinto  
Sri Lanka
- Bhagwat Singh  
India
- Esekia Solofa  
Fiji
- Yoshio Suzuki  
Japan
- Anton Vratusa  
Slovenia
- Layashi Yaker  
Algeria

Should Rudd Lubbers be added to this list?

## Members of Executive Committee

- Elisabeth Mann Borgese  
Founder  
Canada
- Joseph Warioba  
President  
Tanzania
- Alexander Yankov  
Vice President  
Bulgaria
- Anita Coady  
Treasurer  
Canada
- Tsutomu Fuse  
Chair Planning Council  
Japan
- Gunnar Kullenberg  
Secretary  
Executive Director  
Sweden

## News from Headquarters

### Headquarters

University of Malta, Tal-Qroqq  
 PO Box 3, Gzira GZR 01 Malta  
 Tel : 356 346 528  
 Fax: 356 346 502  
 E-mail : [ioimla@kemmnet.net.mt](mailto:ioimla@kemmnet.net.mt)  
 Website : [www.ioi.nst.org/loisal](http://www.ioi.nst.org/loisal)

Dr. Gunnar Kullenberg and staff in Malta play a pivotal part in the effective functioning of the expanding network of operational centers. As Secretary of the Governing Board Dr. Kullenberg reports the following decisions from the 1999 annual meeting in Fiji:

- approved 2000 budget of US\$ three million
- reviewed workplans from 11 operational centers
- introduced new programs to focus on women and youth
- approved the Danielle St. Jorre Scholarship
- endorsed the proposal to establish IOI as a Virtual University
- endorsed projects to honour Arvid Pardo.

In addition to the preparation for and participation in the Fiji meetings and PIM conference, the Executive Director represented IOI at the Workshop on Coastal Megacities in Hangzhou, China in September; a seminar on Shipping and Pollution in Malacca in October 1999 and he visited IOI Operational Centers in Japan and China. In November he visited UNEP's Regional Office in Bangkok and IMO in London in December.

During the coming year IOI will continue to work with institutions and individuals who share our mission and aspirations notes Dr. Kullenberg. A new memorandum of understanding has been signed to continue IOI's role in the creation of UNEP News Forum, an online website which was launched in September 1999. Visit the site at: <http://gpanews.unep.org>. Phase two of a project on risk assessment in cooperation with Swiss Reinsurance Company of Zurich is scheduled to get underway later this year. A workshop on Risk Assessment and Disaster Mitigation was held at the Bermuda Biological Station February

14-15 2000. The workshop provided an opportunity for experts from the insurance industry to meet marine scientists to discuss risk management issues of common interest in order to identify solutions and increase awareness as well as to prepare material for training modules directed at specific target groups. Visit IOI's website [www.ioinst.org](http://www.ioinst.org) for a summary of the workshop. While both of these projects have been under the leadership of IOI - Canada, they have involved other centers as well, notes Dr. Kullenberg. IOI has recently signed a partnership agreement with UNESCO to help promote 2000 as the International Year for the Culture of Peace.

Network wide projects focusing on women and youth will eventually involve all our centers notes Dr. Kullenberg. This year approximately US\$ 150,000 from the Women & the Sea donation will provide support directly to women who are working at grass roots levels in poor and disadvantaged coastal communities. For example, in Costa Rica IOI is working with displaced women in the Gulf of Nicoya area, whereas in India funds have been designated to install toilets in several coastal villages in the Tuticorn district of Tamil Nadu. In Kenya IOI is working with women to promote mariculture of seaweed near Mombasa and in Southern Africa IOI has already been instrumental in the formation of a seaweed mariculture company operated by women in St. Helena's Bay area. In Fiji, a three year project focusing on women and fisheries will conduct special training courses as well as a regional conference on the role of women in the marine sector. In Canada, scholarships will be provided to women who wish to attend the annual summer program at Dalhousie University. In Senegal the IOI is working to improve conditions of women in Kayar who work in seafood processing.

Shadowing is missing.



**Our system-wide projects enhance cohesion and cooperation within our organization**

Gunnar  
**Dr. Kullenberg**

?

## News from Operational Centers

### Black Sea

**Director : Dr. Alexandru Bologna**  
**National Institute for Marine Research**  
**& Development, Mamaia 300,**  
**RO-8700 Constanta 3 Romania**  
**Tel : 40 41 543 288**  
**Fax : 40 41 831 274**  
**E-mail : abologna@alpha.rmri.ro**

Proceedings of the September 1999 Black Sea Leadership Seminar, edited by Professor Bologna and R.H. Charlier are now available from this center. In cooperation with MEDCOAST/METU Turkey, the 5th International Workshop on the Mediterranean and the Black Sea will be held in July. Contact Dr. Bologna for more details.

### Canada

**Director : Mr. Robert Race**  
**1226 LeMarchant Street**  
**Dalhousie University**  
**Halifax, Nova Scotia**  
**Canada B3H 3P7**  
**Tel : 1 902 494 6623 / 1737**  
**Fax : 1 902 494 2034**  
**E-mail : ioihfx@dal.ca**  
**<http://www.dal.ca/ioihfx/>**

Law of the Sea, Agenda 21 and its Implementation, a ten week training program for 18 participants will be conducted from May 29 to August 14. In its 20th year, the course will be directed by Dr. Noel Brown, former head of UNEP's Regional Office in New York. Guest lecturers will include Ambassador Allan Beesley of Canada and Ambassador Neroni Slade from Samoa.

Building on a 1997 seminar organized in cooperation with IUCN for the benefit of delegates to the International Seabed Authority in Kingston, Jamaica,, IOI - Canada sponsored a seminar March 24-26 attended by thirty four delegates. The purpose of the workshop was not to discuss manganese nodules but rather to inform delegates of new emerging resources such as polymetallic crusts and sulphides, methane hydrates and genetic

resources co-habiting in these areas of the deep seabed. At present, these new scientific and technological developments are taking place outside and quite independently of the International Seabed Authority.

To obtain a copy of Volume 15 of the Ocean Yearbook, just released, please contact this center.

IOI Canada Advisory Board, chaired by Hon. Allan J. MacEachen met on March 14 when approval was given to merger discussions between IOI-Canada and Oceans Institute of Canada. The meeting established a working group to plan a workshop for national government departments concerned with oceans such as Department of Fisheries and Oceans and the Department of Environment.

### China

**Director : Prof. Hou Wenfeng**  
**National Marine Data & Info Service**  
**State Oceanic Administration**  
**93 Liuwei Road, Hedong District**  
**Tianjin 300171, China**  
**Tel : 86 22 2430 1297**  
**Fax : 86 22 2430 1292**  
**E-mail : [houwf@netra.nmdis.gov.cn](mailto:houwf@netra.nmdis.gov.cn)**

The following publications are available from this center:

Summary Report on Training Course on Integrated Coastal Zone Management held September 17-26, 1999 (14p);

Red Tide in China's Huanhai & Bohai Sea Area 1999 (14p); and

Important Events on Implementing the GPA for Protection of the Marine Environment from Land Based Activities 1999 (8p).

The five year memorandum of understanding has been renewed by IOI and SOA. Translation into Chinese of IOI publications such as the Annual Report and this newsletter is an ongoing activity. A refresher course for alumni will be held later this year.

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missing



**IOI Virtual  
University will  
be a soft  
structure & will  
be extremely  
flexible**

**Elisabeth Mann  
Borgese**

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of box.

Wrong title.

OYB 15 is not  
out. OYB 14 isn't  
either.

## News from Operational Centers

### Costa Rica

**Director: Dr. Alejandro Gutierrez**  
**Universidad Nacional**  
**PO Box 86, Heredia 3000**  
**Costa Rica**  
**Tel : 506 277 3594**  
**Fax : 506 260 2546**  
**E-mail : gechever@una.ac.cr**

On March 17, this center hosted a regional seminar focusing on a boundary dispute between Nicaragua and Colombia. According to Professor Gutierrez, while the dispute centers around the question of ownership of San Andrea's island the meeting provided an opportunity for all legal and environmental issues to be considered with a view to settling this long-standing dispute. Following an agreement, signed in January by IDRC (Canada) and this center, staff are working in Spanish speaking areas of the Caribbean to heighten awareness of best practices in coastal zone management. Later this year, the center will hold a workshop on disaster mitigation in the Gulf of Nicoya region.

### Eastern Africa

**Director : Mr. Kuria K. Kairu**  
**Kenya Marine & Fisheries Research Institute, PO Box 81651**  
**Mombasa, Kenya**  
**Tel : 254 11 475 527**  
**Fax : 254 11 475 157**  
**E-mail : ioi-ea@recooscix.org**

This new member of the IOI family was established in late 1999 after a memorandum of understanding was signed by IOI and the Kenya Marine Fisheries Research Institute. An Advisory Board has been formed which includes Dr. Nyawira Muthiga of Kenya Wildlife Services; Dr. J. Kazungu, Chief of Research at KMFRI; Professor Ntiba, Lake Victoria Fisheries Organization; Dr. Julius Francis, Institute of Marine Science in Zanzibar.

An initial program of action has been developed with special focus on long-term mangrove conservation. Cooperation with other regional organization is being established as well as closer ties with other IOI

centers in Africa. According to Mr. Kairu, there is considerable scope for education and training in the region served by the host institute. A project proposal on distance learning modules in marine environmental issues has been prepared in cooperation with IOI-Southern Africa.

### India

**Director : Dr. R. Rajagopalan**  
**Indian Institute of Technology**  
**ICSR Building**  
**Madras Chennai 600 036 India**  
**Tel : 91 44 445 8805**  
**Fax : 91 44 220 0559**  
**E-mail : ioi@vsnl.com**

Since 1998, IOI functions as a division of the Foundation for Sustainable Development (Inida) located on the campus of IIT in Madras. The Eco-Village Project, funded since 1997 by GTZ (Germany) was carried out in forty disadvantaged coastal villages in Tamil Nadu. The project focuses on women, since they are under greater pressure. While IOI provides all the supervision, monitoring, informational and technical support, another local ngo (Aswain Trust) actually carries out the work in the villages. Activities have included formation of self help groups with over 1100 members; planting of more than 4000 saplings; distribution of over 200 fuel efficient stoves; and building of four rainwater harvesting tanks. With further funding from JFGE (Japan) much of the earlier activities will continue while additional activities will include village level mass awareness programs, cleaning campaigns, planting of community gardens on unused government land and creation of a cultural troupe consisting mainly of village women to create awareness through song and street plays about water conservation. Vermiculture has been introduced in two villages and the production of spirulina continues in several villages.

An eighteen month project with the Shastri Institute of Canada wraps up in July. The project activities include fieldwork for collection of primary data backed up by secondary research from published mate-



**We focus on women  
 in disadvantaged  
 coastal communi-  
 ties for they are un-  
 der the greatest  
 pressure**

**Professor R.  
 Rajagopalan**

*margins  
 around the  
 box is not  
 the same as  
 on other pages.*



.....the land, the sea  
and the air are the  
common heritage of  
all nations

**Ozaki Yukio  
(1858-1954)**

## News from Operational Centers

rial. The focus of this research is the local community and its knowledge system with reference to plant genetic resources. A field area in the Eastern Ghats of Tamil Nadu has been chosen for primary data collection. Three issues of the project newsletter "**People, Plants and Resources**" have been published and are available from this center.

A six month project funded by the World Bank will document, collate and critically review the available studies on the private health sector in India. In addition, a new project with the support of the Boston MIT branch of ASHA (an organization of Indians in the USA) is hoping to bring fundamental changes to the lives of 70 of the most deserving children in the coastal villages by providing for health and education needs as well as talent promotion and computer awareness.

This center hopes to co-sponsor a workshop with the Center for Scientific Research in Auroville, India which will explore such topics as afforestation, cost-effective shelters, biogas, wind and solar technology and affordable ways to recycle waste water.

### Japan

**Director : Ms. Masako Otsuka**  
**INTERCOM**  
**# 302 1-26-10 Komaba**  
**Meguro-ku, Tokyo 153-0041**  
**Japan**  
**Tel : 81 3 5454 0231**  
**Fax : 81 3 5454 0232**  
**E-mail : intercom@qb3.so-net.ne.jp**

Welcome Masako Otsuka as Director replacing Professor Fuse, who will chair the Advisory Board of IOI in Japan. According to Ms. Otsuka, this center maintains contact with past and potential funders such as the Nippon Foundation and is always busy with the translation into Japanese of print and video materials.

Elisabeth Mann Borgese, Founder and Honorary Chair of IOI was honoured in Tokyo by the Ozaki Yukio Memorial Foundation when she received the fourth Ozaki Memorial Award in November 1999. According to the selection com-

mitte Professor Borgese was chosen "in recognition of her tireless efforts and inspiring leadership in the vital cause of protecting the world's oceans from pollution, over-exploitation and the dangers of international rivalry for marine resources"

The award is given to an individual who has performed outstanding work on behalf of humankind in keeping with the philosophy of Ozaki Yukio, one of Japan's most distinguished statesmen, who held that the land and the sea and the air are the common heritage of all nations. Past recipients of the award have included Kato Shidzue, who pioneered the way for women to enter politics, did much to raise their social status and was instrumental in inviting Margaret Sanger to Japan to teach Japanese women family planning; Ogata Sadako, the United Nations High Commissioner for Refugees; and Muhammad Yunus, founder of the Grameen Bank (Bangladesh) for helping the poorest of the poor to regain self confidence and rebuild their family and life.

Ozaki Yukio (1858-1954) is respected as a man of principle whose life was given to the cause of democracy and popular government. He shared Professor Borgese's passion for world federation.

### Malta

**Director : Prof. Rev. Peter S. Inglott**  
**The Farmhouse**  
**Mediterranean Institute**  
**University of Malta**  
**Msida MSD 06 Malta**  
**Tel : 356 329 2430**  
**Fax : 356 320 ?????**  
**E-mail : mzammit@arts.um.edu.mt**

Located on the campus of the University of Malta, this center places a renewed emphasis on ocean governance issues and studies of the concept of common heritage. During the coming year Father Peter Inglott will collaborate with Professor Borgese to publish a book on the life of Arvid Pardo. Both are members of the selection committee for the Arvid Pardo Prize.



## News from Operational Centers

A leadership seminar on Mediterranean Basin Co-development and Security in cooperation with UNEP, UNIDO, and the government of Malta is scheduled for early October.

further details check out <http://www.usp.ac.fj>

### Pacific Islands

**Director : Dr. G. Robin South**  
**Office of Marine Affairs**  
**University of the South Pacific**  
**PO Box 1168**  
**Suva, Fiji**  
**Tel : 679 305 272**  
**Fax : 679 305 559**  
**E-mail : [south\\_r@usp.ac.fj](mailto:south_r@usp.ac.fj)**  
**Website : <http://www.usp.ac.fj/ioi>**

Effective January 1st 2000 this center changed it's name to IOI-Pacific Islands, which reflects more closely our strong affiliation with Pacific Island states notes Dr. South.

This center has been identified as a node under the Global Coral Reef Monitoring Network and will coordinate the program for Fiji, Samoa, Tonga, Tuvalu, Kirabati and Nauru. The first task is the preparation of State of Coral Reef reports for the participating countries to be presented in May at the International Coral Reef (ICRI) meeting in Noumea.

Robin South and Joeli Veitayaki have completed a regional review of the impacts of global initiatives in the South Pacific.

Under the auspices of MSPTRAIN, which incorporates this center's training programs the following courses will be offered :

#### **Taxonomy of Soft Corals**

September 6th - 9th, 2000. Course instructor is Dr. Phil Adlerslade from Australia. For more details contact [Sotheeswaran@usp.ac.fj](mailto:Sotheeswaran@usp.ac.fj)

#### **Certificate in Climate Change Vulnerability and Adaptation Assessment**

June 26 - October 13, 2000. For

### Senegal

**Director : Dr. Diafara Toure**  
**Centre Oceanographique de Dakar**  
**B.P. 2241 Dakar Senegal**  
**Tel : 221 8340 462**  
**Fax : 221 8342 792**  
**E-mail : [dtoure@crodt.isra.sn](mailto:dtoure@crodt.isra.sn)**

A two week training course will be held in July focusing on coastal zone management issues. For further details of the program contact this center directly. In preparation for this and other courses, considerable translation work is being carried out. Planning for 2001 Pacem in Maribus conference is getting underway.

### Southern Africa

**Director : Dr. Derek W. Keats**  
**Botany Department**  
**University of Western Cape**  
**P Bag X17, Bellville 7535 South Africa**  
**Tel : 2721 959 2304**  
**Fax : 2721 959 2266**  
**E-mail : [dkeats@botunix.uwc.ac.za](mailto:dkeats@botunix.uwc.ac.za)**  
**Website: <http://www.ioi.nst.org/loisal>**

Under the leadership of Derek Keats IOI - Southern Africa has grown rapidly since its creation in 1997. As part of the process of developing a sustainable management plan for the center, five program areas have been identified - 1. Seaweed mariculture courses; 2. Seaweed biodiversity focusing on new economic uses as well as research into poorly-understood crustose coralline algae; 3. Sustainable Livelihoods and Integrated Coastal Management; 4. Applications of Computer Networks in Education 5. IOI-SA Online Services, a website development team providing services in order to generate funds for the center.

#### **Seaweed Mariculture**

The seaweed mariculture programs were the first IOI sponsored activities. A series of courses on *Seaweed Mariculture for*



**IOI - Pacific Islands fulfils its mission through four areas- marine awareness, marine conservation, training, and info technology**

**Robin G. South**

It would be best not to italicize e-mail websites. It is difficult to differentiate 's and slashes. Check indent

← bullets would work better. Be consistent with other lists.

## News from Operational Centers



...we will have to be  
very creative to  
ensure long-term  
sustainability of our  
center....

Dr. Derek Keats

*Community Development* have been well received and the December 1999 course brought together over twenty people from the coastal communities of sub-Saharan Africa. Results generated by ongoing mariculture research are not only for publication, according to Derek, but will enhance IOI's community development projects.

### Seaweed Biodiversity

Investigations of possible biomedical activities of some of the red alga found along the coast are ongoing as are new studies on crustose coralline algal biodiversity and systematics especially along the eastern and southern coastlines.

### Sustainable Livelihoods

A long term research project involving literature search and questionnaire design has been ongoing in the St. Helena's Bay area.

### Computer Networks in Education

In March the center initiated a new distance learning project for coastal managers. SA-ISISlearn, is a learning resource that provides web-based learning materials and courseware. Courses are developed within the framework of the recent legislation on higher education, and the intention is to make them available for university credit as well as life-long learning programs. The first module of SA-ISISlearn is a course entitled *Introduction to Integrated Coastal Management* and is being offered from July 24 to October 30th 2000. To register or for further information contact the website at <http://sa-isislearn.uwc.ac.za/>

### IOI - SA Online

The center has recently completed the development of a website for the Coastal Management Office of the South African Department of Environmental Affairs and Tourism. In December 1999 the South African cabinet approved the White Paper for Sustainable Coastal Development which marks the first national policy for coastal management in the country. The website is a component of this new policy, a copy of which is available from the website.

Aside from the information about the Coastal Management Office, the site also contains information about management and decision-support tools, as well as the CoastCARE an initiative of the Coastal Management Office designed to encourage education on coastal issues. CoastCARE has produced a number of colorful and informative brochures, pamphlets and booklets addressing coastal issues. The site also contains a "What's new" section that highlights new national initiatives in the area of coastal and environmental management. There is a Focus On sections dealing with specific ongoing activities such as the Blue Flag campaign. The international Blue Flag campaign is an incentive scheme that encourages local coastal authorities to manage their beaches in an environmentally friendly manner. "Did you know?" is an area of the website containing brief facts which are illustrated and linked by animation of coastal creatures. Of particular interest is a set of online tide tables.

The e-Journal Contact Update, which aims to "Take Parliament to the People and People to Parliament", described the site as "a valuable resource for those wanting to keep abreast of coastal issues in South Africa" Check out this new site at

<http://www.environment.gov.za/sacoast/>.

Other websites under development by IOI-SA Online Services can be seen at the following site

<http://protea.botany.uwc.c.za/>

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Justification on other columns is full

**Arvid Pardo Award**

Indent

The Arvid Pardo Award for Research on the Concept of the Common Heritage was announced in Malta in January 2000.

Remove line + indent

This award was created by the Institute in 1992 and first awarded in 1997. Through this award IOI wishes to pay tribute to Arvid Pardo, the father of the contemporary Law of the Sea, the inspirer of the Pacem in Maribus Conferences and the International Ocean Institute.

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The purpose of the award is to promote research, studies and wider dissemination of the concept of Common Heritage. The research may be focused in one specific field but multidisciplinary studies will be encouraged. The award is granted for studies of a high scientific level but with paractical significance.

Entries should be submitted to IOI headquarters by end of June 2000. The award will consist of publication of the study, and a prize of five thousand dollars.

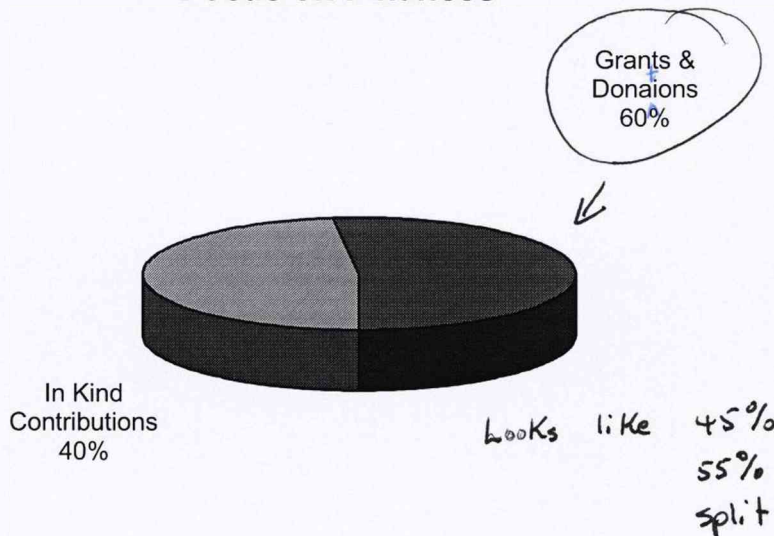
**Danielle de St. Jorre Scholarship**

Danielle de St. Jorre was a member of the Governing Board of IOI and Minister of Foreign Affairs of the Seychelles at the time of her death in 1997.

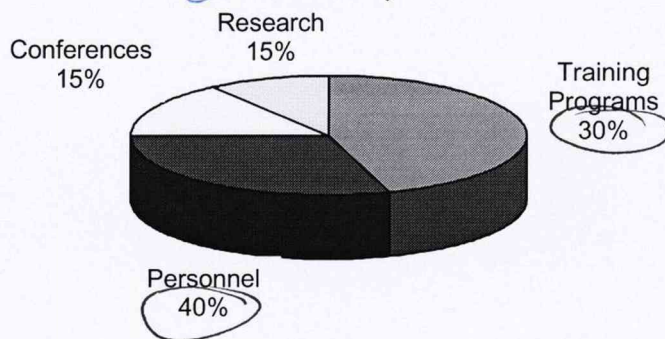
To honour her memory, a scholarship has been created which will be awarded annually to a woman from a poor developing country who is pursuing studies in marine affairs.

The first recipient is Caroline Francoise a barrister and attorney with the Supreme Court of the Seychelles. Ms. Francoise will attend the ten week course in Halifax from May to August, 2000.

**Focus on Finances**



**Total Expenditures for 1999** ← Not centered  
**\$US 1,909,200**



These calculations are based on information presented on November 7th 1999 to the 38th meeting of the Governing Board,



http://www.ioinst.org 1

## New Project

Establishing IOI as a virtual university is extremely ambitious, challenging, and innovative according to Professor Elisabeth Mann Borgese, who originally introduced the idea to the November 1999 meeting of the Governing Board. A report will be presented ~~to~~ at the June 2000 meeting of the Executive Committee outlining how to implement such a project which may have enormous impact on IOI's education and training activities in all eleven operational centers. Members of the working group include Professor Borgese, Dr. Yankov, Professor Fuse and directors of the operational centers in India, South Africa and Fiji. This initiative responds to a number of challenges and new opportunities such as:

- the interdisciplinary character of contemporary knowledge which transcends the departmental divisions of traditional universities;
- the globalization of the communications revolution;
- the financial constraints on students, especially those in developing countries; and
- the financial constraints on academic institutions around the world resulting in downsizing and privatization of universities.

The report will outline how IOI can continue to respond to the training and educational needs of people, especially those in developing countries who are working in ocean sectors.

## New People

Professor ~~Rudd~~ Ruud Lubbers, former Prime Minister of the Netherlands, has accepted IOI's invitation to join the Governing Board effective January 2000.

The IOI family continues to grow. During 1999 the eleventh IOI (omit hyphen) Operational Center, IOI - ~~in~~ Eastern Africa, was established at the Kenya Marine and Fisheries Research Institute in Mombasa.

## Members of the Governing Board

Salvino Busutil  
Malta  
Nikolaus Gelpke  
Switzerland  
Fujiko Hara  
Japan  
~~Rudd~~ Lubbers  
Netherlands  
Jorge Mora Alfaro  
Costa Rica  
Alassane Dialy Ndiaye  
Senegal  
R. Natarajan  
India  
Christopher Pinto  
Sri Lanka  
Bhagwat Singh  
India  
Esekia Solofa  
Fiji  
Yoshio Suzuki  
Japan  
Anton Vratuša  
Slovenia  
Layashi Yaker  
Algeria

## Members of the

## **Executive Committee**

Elisabeth Mann Borgese  
Founder  
Canada  
Joseph Warioba  
President  
Tanzania  
Alexander Yankov  
Vice President  
Bulgaria  
Anita Coady  
Treasurer  
Canada  
Tsutomu Fuse  
Chair, Planning Council  
Japan  
Gunnar Kullenberg  
Secretary  
Executive Director  
Sweden

## **Employment Opportunity**

IOI is seeking applicants for the  
position of Executive Director.

Deadline: May 2000

Starting Date: May 2001

Salary : US\$ 60,000

Address inquiries to:

IOI Headquarters-

University of Malta-

-PO Box 3

Gzira- GZR 01, MALTA

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## News from Headquarters

### Headquarters

University of Malta, Tal-Qroqq

PO Box 3, Gzira GZR 01, Malta

Tel : 356 346 528

Fax: 356 346 502

E-mail : [ioimla@kemmnet.net.mt](mailto:ioimla@kemmnet.net.mt)

Website : [www.ioi.nst.org/ioisa/](http://www.ioi.nst.org/ioisa/)

Dr. Gunnar Kullenberg and the staff in Malta play a pivotal part in the effective functioning of the expanding network of operational centers. As Secretary of the Governing Board Dr. Kullenberg reports the following decisions from the 1999 annual meeting in Fiji:

- approved the 2000 budget of US\$ three million;
- reviewed the workplans from the 11 operational centers;
- introduced new programs to focus on women and youth;
- approved the Danielle St. Jorre Scholarship;
- endorsed the proposal to establish IOI as a Virtual University; and
- endorsed projects to honour Arvid Pardo.

In addition to the preparation for and participation in the Fiji meetings and *PIM* conference, the Executive Director represented IOI at the workshop on Coastal Megacities in Hangzhou, China in September, and a seminar on Shipping and Pollution in Malacca in October 1999. He visited the IOI Operational Centers in Japan and China. In November he visited UNEP's Regional Office in Bangkok and in December he visited the offices of the IMO in London.

During the coming year, IOI will continue to work with institutions and individuals who share our mission and aspirations notes Dr. Kullenberg. A new memorandum of understanding has been signed to continue IOI's role in the creation/development of the *UNEP/GPA News Forum*, an online news and information service that was launched in September 1999. Visit the site at <http://gpanews.unep.org>. Phase two of a project on risk assessment in cooperation with Swiss Reinsurance Company of Zurich is scheduled to get underway later this year. Phase one of this project culminated with a workshop on Risk Assessment and Disaster Mitigation held at the Bermuda Biological Station for Research, Inc., on February 14 - 15 2000. The workshop provided an opportunity for experts from the insurance industry to meet marine scientists to discuss risk management issues of common interest in order to identify solutions and increase awareness as well as to prepare material for training modules directed at specific target groups. Visit IOI's website [www.ioinst.org](http://www.ioinst.org) for a summary of the workshop. While both of these projects have been under the leadership of IOI - Canada, they have involved other centers as well, notes Dr. Kullenberg. IOI has recently signed a partnership agreement with UNESCO to help promote the year 2000 as the International Year for the Culture of Peace.

Network-wide projects focusing on women and youth will eventually involve all our centers notes Dr. Kullenberg. This year approximately US\$ 150,000 from the Women & the Sea donation will provide support directly to women who are working at grass roots levels in poor and disadvantaged coastal communities. For example, in Costa Rica IOI is working with displaced women in the Gulf of Nicoya area, whereas in India funds have been designated to install toilets in several coastal villages in the Tuticorin district of Tamil Nadu. In Kenya IOI is working with women to promote mariculture of seaweed near Mombasa and in Southern Africa IOI has already been instrumental in the formation of a seaweed mariculture company operated by women in the St. Helena's Bay area. In Fiji, a three year project focusing on women and fisheries will conduct special training courses as well as a regional conference on the role of women in the marine sector. In Canada, scholarships will be provided to women who wish to attend the annual summer training program at Dalhousie University. In Senegal the IOI is working to improve conditions of women in Kayar who work in seafood processing.

**Our system-wide  
projects enhance  
cohesion and  
cooperation  
within our  
organization**  
**Dr. Gunnar Kullenberg**

|

## News from Operational Centers <http://www.ioinst.org> 3

### Black Sea

**Director : Dr. Alexandru Bologna**  
~~National Institute for Marine Research~~  
~~& Development~~ Romanian Marine Research Institute,  
Blvd-Mamaia 300,  
RO-8700 Constanta 3, Romania  
**Tel : 40 41 5643 288**  
**Fax : 40 41 831 274**  
**E-mail : [abologa@alpha.rmri.ro](mailto:abologa@alpha.rmri.ro)**

Proceedings of the September 1999 Black Sea Leadership Seminar, edited by Professor Bologna and R.H. Charlier, are now available from this center. In cooperation with MEDCOAST/METU Turkey, the 5th International Workshop on the Mediterranean and the Black Sea will be held in July. Contact Dr. Bologna for more details.

### Canada

**Director : Mr. Robert Race**  
Dalhousie University  
**1226 LeMarchant Street**  
Dalhousie University  
**Halifax, Nova Scotia B3H 3P7**  
**Canada B3H 3P7**  
**Tel : 1 902 494 6623 / 1737**  
**Fax : 1 902 494 2034**  
**E-mail : [ioihfx@dal.ca](mailto:ioihfx@dal.ca)**  
**Website: <http://www.dal.ca/ioihfx/>**

~~Law of the Sea, Agenda 21 and its Implementation~~ The United Nations Convention on the Law of the Sea: Its Implementation and Agenda 21, a ten week training program for 18 participants, will be conducted from May 29 to August 44. In its 20<sup>th</sup> year, the course will be directed by Dr. Noel Brown, former head of UNEP's Regional Office in New York North America. Guest lecturers will include Ambassador Allan Beesley of Canada and Ambassador Neroni Slade from Samoa.

Building on a 1997 seminar organized in cooperation with IUCN for the benefit of delegates to the International Seabed Authority in Kingston, Jamaica, IOI - Canada sponsored a seminar March 24 - 26, 2000 attended by thirty-four delegates. The purpose of the workshop was not to discuss manganese nodules but rather to inform delegates of new emerging resources such as polymetallic crusts and sulphides, methane hydrates and genetic resources cohabiting in these areas of the deep seabed. At present, these new scientific and technological developments are taking place outside, and quite independently, of the International Seabed Authority.

~~To obtain a copy of Volume 15 of the Ocean Yearbook, just released, please contact this center.~~

IOI - Canada's Advisory Board, chaired by the Hon. Allan J. MacEachen, met on March 14 when approval was given for merger discussions between IOI - Canada and the Oceans Institute of Canada. The meeting established a working group to plan a workshop for senior Canadian national government officials in departments concerned with oceans, such as the Department of Fisheries and Oceans and the Department of the Environment.

### China

**Director : Prof. Hou Wenfeng**  
**National Marine Data & Information Service**  
**State Oceanic Administration**  
**93 Liuwei Road, Hedong District**  
**Tianjin 300171, P.R. of China**



Tel : 86 22 2430 42971292  
Fax : 86 22 2430 1292  
E-mail : houwf@netra.nmdis.gov.cn

The following publications are available from this center:  
*Summary Report on Training Course on Integrated Coastal Zone Management* held  
September 17 - 26, 1999 (14p);  
*Red Tide in China's Huanghai & Bohai Sea Area*, 1999 (14p); and  
*Important Events in Implementing the GPA for the Protection of the Marine Environment  
from Land-based Activities*, 1999 (8p).

The five year memorandum of understanding has been renewed by IOI and SOA.  
Translation into Chinese of IOI publications such as the Annual Report and this newsletter is an  
ongoing activity. A refresher course for alumni will be held later this year.

**IOI Virtual  
University will  
be a soft  
structure & will  
be extremely  
flexible  
Elisabeth Mann  
Borgese**

## Costa Rica

**Director: Dr. Alejandro Gutiérrez**  
**Universidad Nacional**  
**PO Box 86, Heredia 3000**  
**Costa Rica**  
**Tel : 506 277 3594**  
**Fax : 506 260 2546**  
**E-mail : [gechever@una.ac.cr](mailto:gechever@una.ac.cr)**

On March 17, this center hosted a regional seminar focusing on a boundary dispute between Nicaragua and Colombia. According to Professor ~~Gutierrez~~ Gutiérrez, while the dispute centers around the question of ownership of San Andrea's island, the meeting provided an opportunity for all legal and environmental issues to be considered with a view to settling this long-standing dispute. Following an agreement, signed in January by IDRC (Canada) and this center, staff are working in Spanish speaking areas of the Caribbean to heighten awareness of best practices in coastal zone management. Later this year, the center will hold a workshop on disaster mitigation in the Gulf of Nicoya region.

## Eastern Africa

**Director : ~~Mr~~Dr. Kuria K. Kairu**  
**Kenya Marine & Fisheries Research Institute,**  
**PO Box 81651**  
**Mombasa, Kenya**  
**Tel : 254 11 475 527151-5**  
**Fax : 254 11 475 157**  
**E-mail : [ioi-ea@recoscix.orgcom](mailto:ioi-ea@recoscix.orgcom)**

This new member of the IOI family was established in late 1999 after a memorandum of understanding was signed by IOI and the Kenya Marine and Fisheries Re-search Institute. An Advisory Board has been formed which includes Dr. Nyawira Muthiga, of Kenya Wildlife Services; Dr. J. Kazungu, Chief of Research at KMFRI; Professor Ntiba-, Lake Victoria Fisheries Organization; and Dr. Julius Francis, Institute of Marine Science in Zanzibar.

An initial program of action has been developed with special focus on long-term mangrove conservation. Cooperation with other regional organizations is being established as well as closer ties with the other IOI centers in Africa. According to ~~Mr~~Dr. Kairu, there is considerable scope for education and training in the region served by the host institute. A project proposal on distance learning modules in-on marine environmental issues has been prepared in cooperation with IOI- Southern Africa.

## India

**Director : Dr. R. Rajagopalan**  
**Indian Institute of Technology Madras**  
**ICSR Building**  
**~~Madras~~ Chennai 600 036 India**  
**Tel : 91 44 445 8805**  
**Fax : 91 44 220-0559235 2545 or 230 1338**  
**E-mail : [ioi@vsnl.com](mailto:ioi@vsnl.com) [ioimas@md2.vsnl.net.in](mailto:ioimas@md2.vsnl.net.in)**

Since 1998, IOI functions as a division of the Foundation for Sustainable Development (~~India~~ India) located on the campus of IIT in ~~Madras~~ Chennai. The Eco-Village Project, funded since 1997 by GTZ (Germany), was carried out in forty disadvantaged coastal villages in Tamil Nadu. The project focuses on women, since they are under greater pressure. While IOI provides all the super-vision, monitoring, informational and technical support, another local ~~ngo~~ NGO (Aswain Trust) actually carries out the work in the villages. Activities have included the formation of self help groups with over 1100 members; the planting of more than 4,000 saplings; the

distribution of over 200 fuel efficient stoves; and the building of four rainwater harvesting tanks. With further funding from JFGE (Japan), much of the earlier activities will continue, ~~while~~ ~~additional-Additional~~ activities will include ~~village level mass awareness pro-grams at the village level~~, cleaning campaigns, the planting of community gardens on unused government land and the creation of a cultural troupe consisting mainly of village women to create awareness about water conservation through song and street plays ~~about water conservation~~. Vermiculture has been introduced in two villages and the production of ~~spirulina~~ Spirulina continues in several villages.

An eighteen month project with the Shastri Institute of Canada wraps up in July. ~~The~~ ~~Project~~ activities included fieldwork for collection of primary data backed up by secondary research from published mate-

**We focus on women  
in disadvantaged  
coastal communi-ties  
for they are un-der  
the greatest  
pressure  
Professor R.  
Rajagopalan  
News from Operational Centers**

**.....the land, the sea  
and the air are the  
common heritage of  
all nations  
Ozaki Yukio  
(1858-1954)**

rial. The focus of this research is the local community and its knowledge system with reference to plant genetic resources. A field area in the Eastern Ghats of Tamil Nadu has been chosen for primary data collection. Three issues of the project newsletter, "*People, Plants and Resources*", have been published and are available from this center.

A six month project funded by the World Bank will document, collate and critically review the available studies on the private health sector in India. In addition, a new project, with the support of the Boston MIT branch of ASHA (-an organization of Indians in the USA), is hoping to bring fundamental changes to the lives of 70 of the most deserving children in the coastal villages by providing for health and education needs as well as promoting talents promotion and computer awareness.

This center hopes to co-sponsor a workshop with the Center for Scientific Research in Auroville, India which will explore such topics as afforestation, cost-effective shelters, biogas, wind and solar technology and affordable ways to recycle waste-water.

## **Japan**

**Director : Ms. Masako Otsuka**

**INTERCOM**

**# 302 1-26-10 Komaba**

**Meguro-ku, Tokyo 153-0041**

**Japan**

**Tel : 81 3 5454 0231**

**Fax : 81 3 5454 0232**

**E-mail : intercom@qb3.so-net.ne.jp**

Welcome Masako Otsuka as Director, replacing Professor Fuse, who will chair the Advisory Board of IOI in Japan. According to Ms. Otsuka, this center maintains contact with past and potential funders such as the Nippon Foundation and is always busy with the translation into Japanese of print and video materials.

Elisabeth Mann Borgese, Founder and Honorary Chair of IOI was honoured in Tokyo by the Ozaki Yukio Memorial Foundation when she received the fourth Ozaki Memorial Award in November 1999. According to the selection committee Professor Borgese was chosen "in recognition of her tireless efforts and inspiring leadership in the vital cause of protecting the world's oceans from pollution, overexploitation and the dangers of international rivalry for marine resources".

The award is given to an individual who has performed outstanding work on behalf of humankind in keeping with the philosophy of Ozaki Yukio, one of Japan's most distinguished statesmen, who held that the land, the sea and the air are the common heritage of all nations. Ozaki Yukio (1858-1954) is respected as a man of principle whose life was given to the cause of democracy and popular government. He shared Professor Borgese's passion for world federalism. Past recipients of the award have included Katoh Shidzue, who pioneered the way for women to enter politics, did much to raise their social status and was instrumental in inviting Margaret Sanger to Japan to teach Japanese women family planning; Ogata Sadako, the United Nations High Commissioner for Refugees; and Muhammad Yunus, founder of the Grameen Bank (Bangladesh) for helping the poorest of the poor to regain self confidence and rebuild their families and lives.

Ozaki Yukio (1858-1954) is respected as a man of principle whose life was given to the cause of democracy and popular government. He shared Professor Borgese's passion for world federation/federalism?.

**Malta**

**Director : Prof. Rev. Peter S. Inglott**

**The Farmhouse**

**Mediterranean Institute**

**University of Malta**

**Msida MSD 06, Malta**

**Tel : 356 329 2430**

**Fax : 356 320 222717**

**E-mail : [mzammit@arts.um.edu.mt](mailto:mzammit@arts.um.edu.mt)**

Located on the campus of the University of Malta, this center places a renewed emphasis on ocean governance issues and studies of the concept of common heritage. During the coming year ~~Father Peter~~ Professor Inglott will collaborate with Professor Borgese to publish a book on the life of Arvid Pardo. Both are members of the selection committee for the Arvid Pardo Prize.

## News from Operational Centers

### Robin G. South

#### Pacific Islands

Director : Dr. G. Robin South

Office of Marine Affairs

University of the South Pacific

PO Box 1168

Suva, Fiji

Tel : 679 305 272

Fax : 679 305 559

E-mail : [south\\_r@usp.ac.fj](mailto:south_r@usp.ac.fj)

Website : <http://www.usp.ac.fj/ioi>

Effective January 1~~st~~ 2000 this center changed its name to IOI - Pacific Islands, which reflects more closely our strong affiliation with Pacific Island ~~states~~ States notes Dr. South.

This center has been identified as a node ~~under~~for the Global Coral Reef Monitoring Network and will co-ordinate the program for Fiji, Samoa, Tonga, Tuvalu, Kiribati, and Nauru. The first task is the preparation of State of Coral Reef reports for the participating countries to be presented in May at the International Coral Reef (ICRI) meeting in Noumea. Robin South and Joeli Veitayaki have completed a regional review of the impacts of global initiatives in the South Pacific.

Under the auspices of MSPTRAIN, which incorporates this center's training programs the following

courses will be offered:-

#### Taxonomy of Soft Corals

September 6~~th~~ - 9~~th~~, 2000. Course instructor is Dr. Phil Adlerslade from Australia. For more details, contact [Sotheeswaran@usp.ac.fj](mailto:Sotheeswaran@usp.ac.fj).

#### Certificate in Climate Change Vulnerability and Adaptation Assessment

June 26 - October 13, 2000. For further details, check out the website at <http://www.usp.ac.fj>.

### Senegal

Director : Dr. Diacara ~~Toure~~Touré

~~Centre de Recherches Oceanographique~~Océanographiques de Dakar-Thiaroye

B.P. 2241 Dakar, Senegal

Tel : 221 8340 462

Fax : 221 8342 792

E-mail : [dtoure@crodt.isra.sn](mailto:dtoure@crodt.isra.sn)

A two week training course ~~will to~~ be held in July ~~focusing~~will focus on coastal zone management issues. For further details of the program contact this center directly. In preparation for this and other courses, considerable translation work is being carried out. Planning for the 2001 Pacem in Maribus conference is ~~getting~~underway.

### Southern Africa

Director : Dr. Derek W. Keats

Botany Department

University of Western Cape

P Bag X17, Bellville 7535, South Africa

Tel : 27 21 959 2304

Fax : 27 21 959 2266

E-mail : [dkeats@botunix.uwc.ac.za](mailto:dkeats@botunix.uwc.ac.za)

Website: <http://www.ioi.nst.org/ioisa/>

Under the leadership of Derek Keats IOI - Southern Africa has grown rapidly since its creation in ~~1997~~1995. As part of the process of developing a sustainable management plan for the center, five program areas have been identified.

- ~~1~~ ~~4~~ Seaweed mariculture ~~Mariculture~~ courses;
- ~~2~~ Seaweed biodiversity ~~Biodiversity~~ focusing on new economic uses as well as research into poorly understood crustose coralline algae;
- ~~3~~ Sustainable Livelihoods and Integrated Coastal Management;
- ~~4~~ Applications of Computer Networks in Education, and
- ~~5~~ IOI - SA Online Services, a website development team providing services in order to generate funds for the center.

#### **Seaweed Mariculture**

The seaweed mariculture programs were the first IOI - Southern Africa sponsored activities. A series of courses on Seaweed Mariculture for

**IOI - Pacific Islands  
fulfils its mission  
through four areas-marine  
awareness,  
marine conservation,  
training, and info  
technology**

## News from Operational Centers

**....we will have to be  
very creative to  
ensure long-term  
sustainability of our  
center....**

**Dr. Derek Keats**

Community Development have been well received and the December 1999 course brought together over twenty people from the coastal communities of sub-Saharan Africa. Results generated by ~~engling-ongoing~~ mariculture research are not only for publication, according to Derek, but will enhance IOI's community development projects.

### **Seaweed Biodiversity**

Investigations of possible biomedical activities of ~~some of the~~ certain red alga found along the coast are ongoing as are new studies on crustose coralline algal biodiversity and systematics, especially along the eastern and southern coastlines.

### **Sustainable Livelihoods**

A long-term research project involving literature search and questionnaire design has been ongoing in the St. Helena's Bay area.

### **Computer Networks in Education**

In March the center initiated a new distance learning project for coastal managers. SA-ISISlearn, is a learning resource that provides web-based learning materials and courseware. Courses are developed within the framework of the recent legislation on higher education, and the intention is to make them available for university credit as well as life-long learning programs. The first module of SA-ISISlearn is a course entitled *Introduction to Integrated Coastal Management* and is being offered from July 24 to October 30, # 2000. To register or for further information ~~contact~~ consult the website at <http://sa-isislearn.uwc.ac.za/>

**IOI - SA Online** The center has recently completed the development of a website for the Coastal Management Office of the South African Department of Environmental Affairs and Tourism. In December 1999 the South African cabinet approved the White Paper for Sustainable Coastal Development which marks the first national policy for coastal management in the country. The website is a component of this new policy, a copy of which is available from the website.

A leadership seminar on Mediterranean Basin Co-development and Security in cooperation with UNEP, UNIDO, and the government of Malta is scheduled for early October

Aside from the information about the Coastal Management Office, the site also contains information about management and decision-support tools, as well as ~~the~~ CoastCARE, an initiative of the Coastal Management Office designed to encourage education on coastal issues. CoastCARE has produced a number of colorful and informative brochures, pamphlets, and booklets addressing coastal issues. The site also contains a "What's new" section that highlights new national initiatives in the area of coastal and environmental management. There is a "Focus On" sections dealing with specific on-going activities such as the Blue Flag campaign. The international Blue Flag campaign is an incentive scheme that encourages local coastal authorities to ~~to~~ manage their beaches in an environmentally friendly manner. "Did you know?" is an area of the website containing brief facts ~~which that~~ are illustrated and linked by animation of coastal creatures. Of particular interest is a set of online tide tables.



The e-Journal Contact Update, which aims to "Take Parliament to the People and People to Parliament", described the site as "a valuable resource for those wanting to keep abreast of coastal issues in South Africa". Check out this new site at:  
<http://www.environment.gov.za/sacoast/>.

Other websites under development by IOI-SA Online Services can be seen at the following site <http://protea.botany.uwc.c.za/>.

## News from Operational Centers

### Arvid Pardo Award

The Arvid Pardo Award for Research on the Concept of the Common Heritage was announced in Malta in January 2000.

This award was created by the Institute in 1992 and first awarded in 1997. Through this award IOI wishes to pay tribute to Arvid Pardo, the father of the contemporary Law of the Sea, the inspirer of the *Pacem in Maribus* Conferences and the International Ocean Institute.

The purpose of the award is to promote research, studies and the wider dissemination of the concept of Common Heritage. The research may be focused ~~in~~on one specific field but multidisciplinary studies will be encouraged. The award is granted for studies of a high scientific level ~~but~~with practical significance.

Entries should be submitted to IOI ~~headquarters~~Headquarters by the end of June 2000. The award will consist of the publication of the study, and a prize of five thousand dollars.

### Danielle de St. Jorre Scholarship

Danielle de St. Jorre was a member of the Governing Board of IOI and the Minister of Foreign Affairs of the Seychelles at the time of her death in 199~~2~~7. To honour her memory, a scholarship has been created which will be awarded annually to a woman from a ~~poor~~ developing country who is pursuing studies in marine affairs.

The first recipient is Caroline ~~Franceise~~Houareau a barrister and attorney with the Supreme Court of the Seychelles. Ms. ~~Franceise~~Houareau will attend the ten week course in Halifax from May 29 to August 4, 2000.

### Focus on Finances

In Kind Contributions 40%

Grants & Donations 60%

### Total Expenditures for 1999

~~\$US\$ 1,909,2000~~

Training Programs 30%

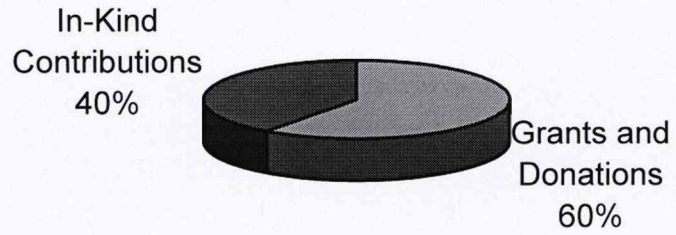
Personnel 40%

Research 15%

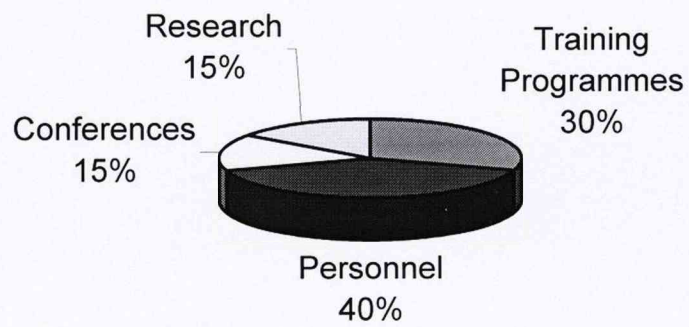
Conferences 15%

These calculations are based on information presented on November 7~~th~~h 1999 to the 38th meeting of the Governing Board.

### Focus on Finance



### Total Expenditures for 1999 US\$ 1,909,200



# ◆ Across the Oceans ◆



Newsletter of the International Ocean Institute

May 2000



## New Project

Establishing IOI as a virtual university is extremely ambitious, challenging and innovative according to Professor Elisabeth Mann Borgese, who originally introduced the idea to the November 1999 meeting of the Governing Board. A report will be presented to the June 2000 meeting of the Executive Committee outlining how to implement such a project which may have enormous impact on IOI's education and training activities in all eleven operational centers. Members of the working group include Professor Borgese, Dr. Yankov, Professor Fuse and directors of operational centers in India, South Africa and Fiji.

This initiative responds to a number of challenges and new opportunities such as:

- the interdisciplinary character of contemporary knowledge which transcends the departmental divisions of traditional universities;
- the globalization of the communications revolution;
- the financial constraints on students, especially in developing countries; and
- the financial constraints on academic institutions around the world resulting in downsizing and privatization of universities.

The report will outline how IOI can continue to respond to training and education needs of people, especially in developing countries who are working in ocean sectors.

## New People

Professor **Rudd** Lubbers, former Prime Minister of the Netherlands, has accepted IOI's invitation to join the Governing Board effective January 2000.

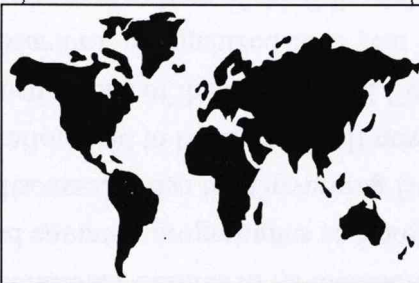
The IOI family continues to grow. During 1999 the IOI Operational Center in Eastern Africa was established at the Kenya Marine Fisheries Research Institute in Mombasa.

## Employment Opportunity

IOI is seeking applicants for the position of Executive Director.

Deadline: May 2000  
Starting Date: May 2001  
Salary: US\$ 60,000

Address inquiries to:  
IOI Headquarters,  
University of Malta, PO Box 3  
Gzira, GZR 01 MALTA



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## Members of Governing Board

Salvino Busuttill  
Malta

Nikolaus Gelpke  
Switzerland

Fujiko Hara  
Japan

Jorge Mora Alfaro  
Costa Rica

Alassane Dialy Ndiaye  
Senegal

R. Natarajan  
India

Christopher Pinto  
Sri Lanka

Bhagwat Singh  
India

Esekia Solofa  
Fiji

Yoshio Suzuki  
Japan

Anton Vratusa  
Slovenia

Layashi Yaker  
Algeria

## Members of Executive Committee

Elisabeth Mann Borgese  
Founder  
Canada

Joseph Warioba  
President  
Tanzania

Alexander Yankov  
Vice President  
Bulgaria

Anita Coady  
Treasurer  
Canada

Tsutomu Fuse  
Chair, Planning Council  
Japan

Gunnar Kullenberg  
Secretary  
Executive Director  
Sweden

*Should Rudd Lubbers be on the list.*

## News from Headquarters

### Headquarters

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 Tel : 356 346 528  
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 E-mail : [ioimla@kemmnet.net.mt](mailto:ioimla@kemmnet.net.mt)  
 Website : [www.ioi.nst.org/loisal](http://www.ioi.nst.org/loisal)

Dr. Gunnar Kullenberg and staff in Malta play a pivotal part in the effective functioning of the expanding network of operational centers. As Secretary of the Governing Board, Dr. Kullenberg reports the following decisions from the 1999 annual meeting in Fiji:

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In addition to the preparation for and participation in the Fiji meetings and PIM conference, the Executive Director represented IOI at the Workshop on Coastal Megacities in Hangzhou, China, in September; a seminar on Shipping and Pollution in Malacca in October 1999 and he visited IOI Operational Centers in Japan and China. In November he visited UNEP's Regional Office in Bangkok and IMO in London in December.

During the coming year IOI will continue to work with institutions and individuals who share our mission and aspirations notes Dr. Kullenberg. A new memorandum of understanding has been signed to continue IOI's role in the creation of UNEP News Forum, an online website which was launched in September 1999. Visit the site at: <http://gpanews.unep.org>. Phase two of a project on risk assessment in cooperation with Swiss Reinsurance Company of Zurich is scheduled to get underway later this year. A workshop on Risk Assessment and Disaster Mitigation was held at the Bermuda Biological Station, February

14-15, 2000. The workshop provided an opportunity for experts from the insurance industry to meet marine scientists to discuss risk management issues of common interest in order to identify solutions and increase awareness as well as to prepare material for training modules directed at specific target groups. Visit IOI's website [www.ioinst.org](http://www.ioinst.org) for a summary of the workshop. While both of these projects have been under the leadership of IOI - Canada, they have involved other centers as well, notes Dr. Kullenberg. IOI has recently signed a partnership agreement with UNESCO to help promote 2000 as the International Year for the Culture of Peace.

Network wide projects focusing on women and youth will eventually involve all our centers notes Dr. Kullenberg. This year approximately US\$ 150,000 from the Women & the Sea donation will provide support directly to women who are working at grass roots levels in poor and disadvantaged coastal communities. For example, in Costa Rica IOI is working with displaced women in the Gulf of Nicoya area, whereas in India funds have been designated to install toilets in several coastal villages in the Tuticorn district of Tamil Nadu. In Kenya IOI is working with women to promote mariculture of seaweed near Mombasa and in Southern Africa IOI has already been instrumental in the formation of a seaweed mariculture company operated by women in St. Helena's Bay area. In Fiji, a three year project focusing on women and fisheries will conduct special training courses as well as a regional conference on the role of women in the marine sector. In Canada, scholarships will be provided to women who wish to attend the annual summer training program at Dalhousie University. In Senegal the IOI is working to improve conditions of women in Kayar who work in seafood processing.



**Our system-wide projects enhance cohesion and cooperation within our organization.**

**Dr. Kullenberg**

**News from Operational Centers**



**IOI Virtual University will be a soft structure & will be extremely flexible**

**Elisabeth Mann Borgese**

**Black Sea**

**Director : Dr. Alexandru Bologna**  
**National Institute for Marine Research & Development, Mamaia 300,**  
**RO-8700 Constanta 3 Romania**  
 Tel : 40 41 543 288 *643*  
 Fax : 40 41 831 274  
 E-mail : abologa@alpha.rmri.ro

Proceedings of the September 1999 Black Sea Leadership Seminar, edited by Professor Bologna and R.H. Charlier are now available from this center. In cooperation with MEDCOAST/METU Turkey, the 5th International Workshop on the Mediterranean and the Black Sea will be held in July. Contact Dr. Bologna for more details.

**Canada**

**Director : Mr. Robert Race**  
 1226 LeMarchant Street  
 Dalhousie University  
 Halifax, Nova Scotia  
 Canada B3H 3P7  
 Tel : 1 902 494 6623 / 1737  
 Fax : 1 902 494 2034  
 E-mail : ioihfx@dal.ca  
 http://www.dal.ca/ioihfx/

Law of the Sea, Agenda 21 and its Implementation, a ten week training program for 18 participants will be conducted from May 29 to August 14. In its 20th year, the course will be directed by Dr. Noel Brown, former head of UNEP's Regional Office in New York. Guest lecturers will include Ambassador Allan Beesley of Canada and Ambassador Neroni Slade from Samoa.

Building on a 1997 seminar organized in cooperation with IUCN for the benefit of delegates to the International Seabed Authority in Kingston, Jamaica, IOI-Canada sponsored a seminar March 24-26 attended by thirty-four delegates. The purpose of the workshop was not to discuss manganese nodules but rather to inform delegates of new emerging resources such as polymetallic crusts and sulphides, methane hydrates and genetic

resources co-habiting in these areas of the deep seabed. At present, these new scientific and technological developments are taking place outside and quite independently of the International Seabed Authority.

To obtain a copy of Volume 15 of the Ocean Yearbook, just released, please contact this center.

IOI Canada Advisory Board, chaired by Hon. Allan J. MacEachen met on March 14 when approval was given to merger discussions between IOI-Canada and Oceans Institute of Canada. The meeting established a working group to plan a workshop for national government departments concerned with oceans such as Department of Fisheries and Oceans and the Department of Environment.

**China**

**Director : Prof. Hou Wenfeng**  
**National Marine Data & Info Service**  
**State Oceanic Administration**  
 93 Liuwei Road, Hedong District  
 Tianjin 300171, China  
 Tel : 86 22 2430 1297 *1292*  
 Fax : 86 22 2430 1292  
 E-mail : houwf@netra.nmdis.gov.cn

The following publications are available from this center:

- Summary Report on Training Course on Integrated Coastal Zone Management held September 17-26, 1999 (14p);
- Red Tide in China's Huanhai & Bohai Sea Area 1999 (14p); and
- Important Events on Implementing the GPA for Protection of the Marine Environment from Land Based Activities 1999 (8p).

The five year memorandum of understanding has been renewed by IOI and SOA. Translation into Chinese of IOI publications such as the Annual Report and this newsletter is an ongoing activity. A refresher course for alumni will be held later this year.

*The United Nations Convention on the Law of the Sea: its implementation and Agenda 21*

*Alan*

## News from Operational Centers

### Costa Rica

**Director: Dr. Alejandro Gutierrez**  
**Universidad Nacional**  
**PO Box 86, Heredia 3000**  
**Costa Rica**  
**Tel : 506 277 3594**  
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**E-mail : gechever@una.ac.cr**

On March 17, this center hosted a regional seminar focusing on a boundary dispute between Nicaragua and Colombia. According to Professor Gutierrez, while the dispute centers around the question of ownership of San Andrea's island the meeting provided an opportunity for all legal and environmental issues to be considered with a view to settling this long-standing dispute. Following an agreement, signed in January by IDRC (Canada) and this center, staff are working in Spanish speaking areas of the Caribbean to heighten awareness of best practices in coastal zone management. Later this year, the center will hold a workshop on disaster mitigation in the Gulf of Nicoya region.

### Eastern Africa

**Director : ~~Mr~~ Kuria K. Kairu**  
**Kenya Marine & Fisheries Research Institute, PO Box 81651**  
**Mombasa, Kenya**  
**Tel : 254 11 475 527**  
**Fax : 254 11 475 157**  
**E-mail : ioi-ea@recoscix.org**

This new member of the IOI family was established in late 1999 after a memorandum of understanding was signed by IOI and the Kenya Marine Fisheries Research Institute. An Advisory Board has been formed which includes Dr. Nyawira Muthiga, of Kenya Wildlife Services; Dr. J. Kazungu, Chief of Research at KMFRI; Professor Ntiba, Lake Victoria Fisheries Organization; Dr. Julius Francis, Institute of Marine Science in Zanzibar.

An initial program of action has been developed with special focus on long-term mangrove conservation. Cooperation with other regional organization is being established as well as closer ties with other IOI

centers in Africa. According to Mr. Kairu, there is considerable scope for education and training in the region served by the host institute. A project proposal on distance learning modules in marine environmental issues has been prepared in cooperation with IOI-Southern Africa.

### India

**Director : Dr. R. Rajagopalan**  
**Indian Institute of Technology**  
**ICSR Building**  
**Madras Chennai 600 036 India**  
**Tel : 91 44 445 8805**  
**Fax : 91 44 220 0559**  
**E-mail : ioi@vsnl.com**

Since 1998, IOI functions as a division of the Foundation for Sustainable Development (Injda) located on the campus of IIT in Madras. The Eco-Village Project, funded since 1997 by GTZ (Germany) was carried out in forty disadvantaged coastal villages in Tamil Nadu. The project focuses on women, since they are under greater pressure. While IOI provides all the supervision, monitoring, informational and technical support, another local ngo (Aswain Trust) actually carries out the work in the villages. Activities have included formation of self help groups with over 1100 members; planting of more than 4000 saplings; distribution of over 200 fuel efficient stoves; and building of four rainwater harvesting tanks. With further funding from JFGE (Japan) much of the earlier activities will continue while additional activities will include village level mass awareness programs, cleaning campaigns, planting of community gardens on unused government land and creation of a cultural troupe consisting mainly of village women to create awareness through song and street plays about water conservation. Vermiculture has been introduced in two villages and the production of spirulina continues in several villages.

An eighteen month project with the Shastri Institute of Canada wraps up in July. The project activities include fieldwork for collection of primary data backed up by secondary research from published mate-



**We focus on women in disadvantaged coastal communities for they are under the greatest pressure**

**Professor R. Rajagopalan**

*margins are off*

## News from Operational Centers



....the land, the sea  
and the air are the  
common heritage of  
all nations

**Ozaki Yukio  
(1858-1954)**

rial. The focus of this research is the local community and its knowledge system with reference to plant genetic resources. A field area in the Eastern Ghats of Tamil Nadu has been chosen for primary data collection. Three issues of the project newsletter "People, Plants and Resources" have been published and are available from this center.

A six month project funded by the World Bank will document, collate and critically review the available studies on the private health sector in India. In addition, a new project with the support of the Boston MIT branch of ASHA (an organization of Indians in the USA) is hoping to bring fundamental changes to the lives of 70 of the most deserving children in the coastal villages by providing for health and education needs as well as talent promotion and computer awareness.

This center hopes to co-sponsor a workshop with the Center for Scientific Research in Auroville, India which will explore such topics as afforestation, cost-effective shelters biogas, wind and solar technology and affordable ways to recycle waste water.

### Japan

**Director : Ms. Masako Otsuka  
INTERCOM**

# 302 1-26-10 Komaba  
Meguro-ku, Tokyo 153-0041

Japan

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Welcome Masako Otsuka as Director replacing Professor Fuse, who will chair the Advisory Board of IOI in Japan. According to Ms. Otsuka, this center maintains contact with past and potential funders such as the Nippon Foundation and is always busy with the translation into Japanese of of print and video materials.

Elisabeth Mann Borgese, Founder and Honorary Chair of IOI was honoured in Tokyo by the Ozaki Yukio Memorial Foundation when she received the fourth Ozaki Memorial Award in November 1999. According to the selection com-

mitte Professor Borgese was chosen "in recognition of her tireless efforts and inspiring leadership in the vital cause of protecting the world's oceans from pollution, over-exploitation and the dangers of international rivalry for marine resources".

The award is given to an individual who has performed outstanding work on behalf of humankind in keeping with the philosophy of Ozaki Yukio, one of Japan's most distinguished statesmen, who held that the land and the sea and the air are the common heritage of all nations. Past recipients of the award have included Kato Shidzue, who pioneered the way for women to enter politics, did much to raise their social status and was instrumental in inviting Margaret Sanger to Japan to teach Japanese women family planning; Ogata Sadako, the United Nations High Commissioner for Refugees; and Muhammad Yunus, founder of the Grameen Bank (Bangladesh) for helping the poorest of the poor to regain self confidence and rebuild their family and life.

Ozaki Yukio (1858-1954) is respected as a man of principle whose life was given to the cause of democracy and popular government. He shared Professor Borgese's passion for world federation.

*Federalism ?*

### Malta

**Director : Prof. Rev. Peter S. Inglott**

**The Farmhouse**

**Mediterranean Institute**

**University of Malta**

**Msida MSD 06 Malta**

**Tel : 356 329 2430**

**Fax : 356 320 ???? ?**

**E-mail : mzammit@arts.um.edu.mt**

Located on the campus of the University of Malta, this center places a renewed emphasis on ocean governance issues and studies of the concept of common heritage. During the coming year Father Peter Inglott will collaborate with Professor Borgese to publish a book on the life of Arvid Pardo. Both are members of the selection committee for the Arvid Pardo Prize.



## News from Operational Centers

A leadership seminar on Mediterranean Basin Co-development and Security in cooperation with UNEP, UNIDO and the government of Malta is scheduled for early October.

further details check out *the website at*  
<http://www.usp.ac.fj>

### Pacific Islands

*Perhaps not italicize it make it difficult*

**Director : Dr. G. Robin South**  
**Office of Marine Affairs**  
**University of the South Pacific**  
**PO Box 1168**  
**Suva, Fiji**  
**Tel : 679 305 272**  
**Fax : 679 305 559**  
**E-mail : [south\\_r@usp.ac.fj](mailto:south_r@usp.ac.fj)**  
**Website : <http://www.usp.ac.fj/loi>**

Effective January 1st 2000 this center changed it's name to IOI-Pacific Islands, which reflects more closely our strong affiliation with Pacific Island states notes Dr. South.

This center has been identified as a node under the Global Coral Reef Monitoring Network and will coordinate the program for Fiji, Samoa, Tonga, Tuvalu, Kirabati and Nauru. The first task is the preparation of State of Coral Reef reports for the participating countries to be presented in May at the International Coral Reef (ICRI) meeting in Noumea.

Robin South and Joeli Veitayaki have completed a regional review of the impacts of global initiatives in the South Pacific.

*X* Under the auspices of MSPTRAIN, which incorporates this center's training programs the following courses will be offered :

#### Taxonomy of Soft Corals

September 6th - 9th, 2000. Course instructor is Dr. Phil Adlerslade from Australia. For more details contact [Sotheeswaran@usp.ac.fj](mailto:Sotheeswaran@usp.ac.fj).

#### Certificate in Climate Change Vulnerability and Adaptation Assessment

June 26 - October 13, 2000. For

### Senegal

**Director : Dr. Diafara Toure**  
**Centre Oceanographique de Dakar**  
**B.P. 2241, Dakar, Senegal**  
**Tel : 221 8340 462**  
**Fax : 221 8342 792**  
**E-mail : [dtoure@crodt.isra.sn](mailto:dtoure@crodt.isra.sn)**

A two week training course will be held in July focusing on coastal zone management issues. For further details of the program contact this center directly. In preparation for this and other courses, considerable translation work is being carried out. Planning for 2001 Pacem in Maribus conference is getting underway.

### Southern Africa

*has begun is underway*

**Director : Dr. Derek W. Keats**  
**Botany Department**  
**University of Western Cape**  
**P Bag X17, Bellville 7535 South Africa**  
**Tel : 2721 959 2304**  
**Fax : 2721 959 2266**  
**E-mail : [dkeats@botunix.uwc.ac.za](mailto:dkeats@botunix.uwc.ac.za)**  
**Website : <http://www.ioi.nst.org/loisa/>**

Under the leadership of Derek Keats IOI - Southern Africa has grown rapidly since its creation in 1997. As part of the process of developing a sustainable management plan for the center, five program areas have been identified - 1. Seaweed mariculture courses; 2. Seaweed Biodiversity focusing on new economic uses as well as research into poorly-understood crustose coralline algae; 3. Sustainable Livelihoods and Integrated Coastal Management; 4. Applications of Computer Networks in Education; 5. IOI-SA Online Services, a website development team providing services in order to generate funds for the center.

#### Seaweed Mariculture

The seaweed mariculture programs were the first IOI sponsored activities. A series of courses on *Seaweed Mariculture for*



**IOI - Pacific Islands fulfils its mission through four areas- marine awareness, marine conservation, training, and info technology**

**Robin G. South**

? 1995

*bullets would work better and be consistent with other list*

justification  
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### Arvid Pardo Award

The Arvid Pardo Award for Research on the Concept of the Common Heritage was announced in Malta in January 2000.

This award was created by the Institute in 1992 and first awarded in 1997. Through this award IOI wishes to pay tribute to Arvid Pardo, the father of the contemporary Law of the Sea, the inspirer of the Pacem in Maribus Conferences and the International Ocean Institute.

The purpose of the award is to promote research, studies and wider dissemination of the concept of Common Heritage. The research may be focused in one specific field but multidisciplinary studies will be encouraged. The award is granted for studies of a high scientific level but with paractical significance.

Entries should be submitted to IOI headquarters by end of June 2000. The award will consist of publication of the study, and a prize of five thousand dollars.

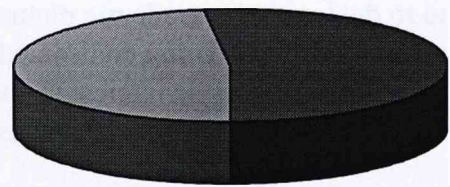
### Danielle de St. Jorre Scholarhip

Danielle de St. Jorre was a member of the Governing Board of IOI and Minister of Foreign Affairs of the Seychelles at the time of her death in 1997. To honour her memory, a scholarship has been created which will be awarded annually to a woman from a poor developing country who is pursuing studies in marine affairs.

The first recipient is Caroline Francoise a barrister and attorney with the Supreme Court of the Seychelles. Ms. Francoise will attend the ten week course in Halifax from May to August, 2000.

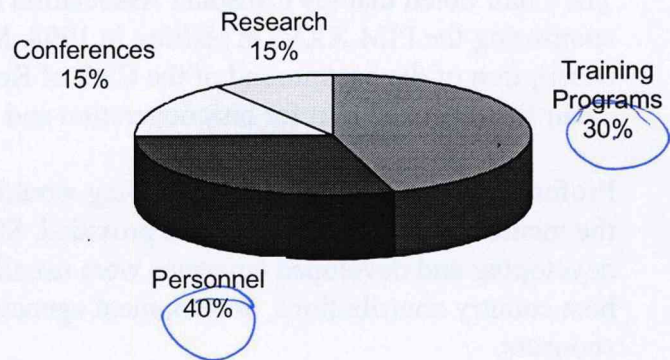
### Focus on Finances

Grants & Donations  
60%



In Kind Contributions  
40%

### Total Expenditures for 1999 \$US 1,909,2000



These calculations are based on information presented on November 7th 1999 to the 38th meeting of the Governing Board



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## News from Operational Centers



...we will have to be very creative to ensure long-term sustainability of our center....

Dr. Derek Keats

learning and course materials?

Community Development have been well received and the December 1999 course brought together over twenty people from the coastal communities of sub-Saharan Africa. Results generated by ongoing mariculture research are not only for publication, according to Derek, but will enhance IOI's community development projects.

### Seaweed Biodiversity

Investigations of possible x biomedical activities of some of the red alga found along the coast are ongoing as are new studies on crustose coralline algal biodiversity and systematics, especially along the eastern and southern coastlines.

### Sustainable Livelihoods

A long term research project involving literature search and questionnaire design has been ongoing in the St. Helena's Bay area.

### Computer Networks in Education

In March the center x initiated a new distance learning project for coastal managers. SA-ISISlearn, is a learning resource that provides web-based learning materials and courseware. Courses are developed within the framework of the recent legislation on higher education, and the intention is to make them available for university credit as well as life-long learning programs. The first module of SA-ISISlearn is a course entitled *Introduction to Integrated Coastal Management* and is being offered from July 24 to October 30<sup>th</sup> 2000. To register or for further information contact the website at <http://sa-isislearn.uwc.ac.za/>

### IOI - SA Online

The center has recently completed the development of a website for the Coastal Management Office of the South African Department of Environmental Affairs and Tourism. In December 1999 the South African cabinet approved the White Paper for Sustainable Coastal Development which marks the first national policy for coastal management in the country. The website is a complement of this new policy, a copy of which is available from the website.

Aside from the information about the Coastal Management Office, the site also contains information about management and decision-support tools, as well as the CoastCARE an initiative of the Coastal Management Office designed to encourage education on coastal issues. CoastCARE has produced a number of colorful and informative brochures, pamphlets and booklets addressing coastal issues. The site also contains a "What's new" section that highlights new national initiatives in the area of coastal and environmental management. There is a "Focus On" sections dealing with specific ongoing activities such as the Blue Flag Campaign. The International Blue Flag Campaign is an incentive scheme that encourages local coastal authorities to manage their beaches in an environmentally friendly manner. "Did you know?" is an area of the website containing brief facts which are illustrated and linked by animation of coastal creatures. Of particular interest is a set of online tide tables.

The e-Journal Contact Update, which aims to "Take Parliament to the People and People to Parliament", described the site as "a valuable resource for those wanting to keep abreast of coastal issues in South Africa". Check out this new site at :

<http://www.environment.gov.za/sacoast/>.

Other websites under development by IOI-SA Online Services can be seen at the following site :

<http://protea.botany.uwc.c.za/>

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## PACEM IN MARIBUS XXVII

INTERNATIONAL OCEAN INSTITUTE

November 8<sup>th</sup> – 12<sup>th</sup>, 1999. Suva, Republic of the Fiji Islands

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### THE FIJI DECLARATION ON ISLANDS IN THE NEW MILLENNIUM

The 187 participants from 30 countries gathered in Suva, Fiji on November 8 – 12<sup>th</sup>, 1999 to celebrate Pacem in Maribus XXVII, have agreed on the following conclusions and recommendations.

#### CONCLUSIONS

Peoples of the Pacific Islands are custodians of some thirty-three million square kilometers of the Pacific Ocean, approximately one twelfth of the Earth's ocean space. Yet the twenty-two countries and territories, with a total population of almost seven million occupy less than 5,000 square kilometers of this vast space. The Pacific Island peoples, whose intricate knowledge of navigation and of their ocean and coastal environments is woven into the very fabric of their culture and language, have settled the Pacific Islands over the last three and a half thousand years. At no time in the past have they faced greater challenges and opportunities than those prevalent on the eve of the third millennium.

The theme for this Conference, *PACEM IN MARIBUS XXVII* was— ***Oceans in the New Millennium: Challenges and Opportunities for the Islands.*** The Conference examined challenges and opportunities for the world's island states since the United Nations Conference on Environment and Development (UNCED; 1992) and the Barbados Declaration (1994), both of which have enormous implications for the small island developing states (SIDS) world-wide, and specifically for the SIDS of the Pacific. At the dawn of the new millennium SIDS are faced with many challenges and opportunities; challenges, some of which are beyond their control, and opportunities which may give hope for their future. Burgeoning human population, pollution of inshore waters, overfishing, unregulated coastal development, climate change and potential sea-level rise threaten the peoples' livelihoods and, indeed, the very survival of their fragile island states.

### [Boundary Issues in the South Pacific] **Bold**

For the island states, their EEZs represent their most significant sources of future wealth and security. As Parties to UNCLOS, they have an obligation to survey their EEZs. Those states with EEZ boundaries that still need to be delimited should enter into negotiations with their neighbouring states as soon as practicable with a view to reaching agreement on finalised boundaries. The EEZ regimes under UNCLOS also form the framework for negotiation of agreements on the management and conservation of South Pacific tuna stocks, which supply 50 per cent of the world's canned tuna market. Pacific Island States have the right to participate in the harvest of the resources and to expect other participants to ensure that the total harvest is sustainable, and that stocks are protected. Island States have expressed concern over the transboundary shipment of hazardous, toxic or high level radioactive waste.

### [Revitalisation of the Regional Seas Programme] **Bold**

There is a need to revitalise the Regional Seas Programme in line with major changes in the UN system and to ensure its responsiveness to regional priorities. Current efforts in this direction by UNEP under the leadership of its Executive Director, Dr. Toepfer, are most appreciated. The sectoral approach needs to be changed to a cross-sectoral approach that integrates land, water, and ecosystem management, and the overriding concept of sustainable development needs to be incorporated. The focus needs to be placed on individual states in adopting policy, institutional, and legal reforms necessary to implement the sectoral, integrated approach. For the island states, there is also a need to develop regional marine technology ventures where appropriate technology development and transfer can be facilitated. Human capacity development and institution building must underpin any such technology transfer. The Pacific Island States have demonstrated a high degree of success in regional cooperation in the higher education sector. The University of the South Pacific, which manifests this regional cooperation, provides a ready base as well as excellent prospects for a regional centre for marine scientific and technological research and development, as mandated under UNCLOS.

Toepfer

### [Traditional Marine Tenure and the Empowerment of Resource Owners] **Bold**

Coastal resources in most Island States are under various forms of traditional stewardship. With the advent of the cash economy and the imposition of inappropriate 'modern' resource management systems, there is an urgent need to develop co-management mechanisms in which the traditional owners, especially women, in partnership with other major social development factors must play a key role in the sustainable management of their resources.

### [International Seabed Authority and Deep Sea Mining in the South Pacific] **Bold Titles**

Deep sea mining has the potential to be a major issue for SIDS, and a number of the South Pacific states have valuable mineral deposits within their territorial waters and EEZs. Island states could play a major role in the development of mechanisms whereby their people will benefit from the long-term benefits of deep-sea mining within their EEZs. Most SIDS lack the capacity to engage in seabed mining individually. One of the major responsibilities of the International Seabed Authority is to see to it that developing countries, including SIDS, are enabled to participate in these activities and share the

benefits. In particular it is very important that regional organisations play a coordinating role in offshore mineral development. Although Pacific Island states have mineral potential, they lack offshore mineral policy and legislation which should be implemented. The importance of marine scientific research in the knowledge gathered so far and the part that it will play in the future should be highlighted.

#### The Oceanic Environment

Ocean observation systems are important in the vast ocean areas surrounding SIDS. These ocean systems drive the world's climate, and in turn the SIDS are highly vulnerable to the long-term effects of climate change and sea level rise. The frequency of cyclones and El Niño-Southern Oscillation are changing, and Ocean Observation Systems as a means of improving our understanding of the world's climate are important. While SIDS have little capacity for participation in ocean observation systems it must be recognised that they have the right to participate. There is a need to find mechanisms whereby they can participate and benefit from them and the results must be deposited in the region.

#### Regional Security

SIDS have little capacity for surveillance and enforcement of their rules and regulations in their vast EEZs and continental shelves. This problem can only be solved through enhanced cooperative monitoring, surveillance, and control.

#### Disaster Preparedness

SIDS are particularly vulnerable to natural and human induced disasters. Risk management and disaster preparedness and mitigation are integral in integrated ocean and coastal management. They should be pursued both on a regional, national and community basis.

#### Marine Biodiversity and Bioprospecting

SIDS are custodians of some of the world's most important biodiversity in their marine ecosystems. Their obligations towards the protection of this biodiversity are a priority under the United Nations Convention on Biological Diversity. In exploiting their tuna resource, island states need to ensure conservation of marine biodiversity by issuing licenses for equipment that avoids death of by-catch species. Since most of the coral reefs are under the stewardship of the people there is an onus placed upon them to ensure their protection for future generations. Bioprospecting of tropical marine organisms is a fast growing trend, with developed states seeking discoveries of biologically active compounds from marine organisms of SIDS. The island peoples are seeking mechanisms whereby they can protect their intellectual property rights, so they can benefit from them in a sustainable manner.

#### RECOMMENDATIONS

*PIM XXVII recognises the pivotal role played by the SIDS in their individual and collective roles in the sustainable development of their coastal and ocean resources. It is recommended that:*

1. SIDS should strengthen their collaboration in the development of regional and national strategies necessary for the implementation of the post-UNCED Agreements and Conventions to which they are Parties, and to the principles contained in the Barbados Programme of Action.
2. Human resources development in the marine sector continues to be a priority for the foreseeable future. Global, regional and national organisations should continue to develop appropriate training with the goal of rendering SIDS self-sufficient in human resources in the marine sector. The experience of IOI and in particular the results of the capacity building and training programmes carried out by IOI operational centres, may be appropriate in the implementation of these recommendations.
3. Marine scientific research should be pursued in a cooperative mode, and efforts in basic education on the marine environment should be strengthened.

For the Pacific SIDS it is **recommended** that:

4. They intensify coordinated regional and national marine awareness activities that involve all components of society.
5. The South Pacific Forum, through the Council of Regional Organisations of the Pacific (CROP) Marine Sector Working Group (MSWG) and the IOI-South Pacific Operational Centre develop an Oceans Policy for the Pacific Islands, which can be adapted to ocean policy development at the national level.

*Recognising that their EEZs represent a significant source of future wealth and security of SIDS, it is **recommended** that:*

6. SIDS which have the potential to claim extended continental shelf beyond the 200 miles should, bearing in mind the ten-year period established by UNCLOS, undertake the lodging of claims for these boundaries. Coastal states should move forward rapidly with the delineation of the baselines from which the various jurisdictional zones under UNCLOS are measured and deposit the appropriate charts and list of co-ordinates with the United Nations. Technical assistance should be sought from developed states to complete the necessary surveys within the given time frame.
7. Individual states be responsible for promoting the mapping of the boundaries of their EEZs.
8. A precautionary approach be taken to the management of deep-water fisheries, including conservation of marine biodiversity through routine utilisation of techniques that avoid by-catch losses and the incorporation of these techniques into license agreements with distant fishing nations.
9. Through the South Pacific Forum Fisheries Agency SIDS cooperate in enhancing mechanisms for joint surveillance and enforcement.

*For the Pacific SIDS it is **recommended** that:*

10. The Pacific SIDS establish procedures for the expeditious implementation of the consent regime for marine scientific research in accordance with the UNCLOS

provisions, and adopt international or regional models (e.g. the UN model guidelines on marine scientific research, and the SOPAC guidelines in the Soons report). The regime should take into account the interests of the coastal state in having its nationals participate in the research and obtaining research data and samples in conducting marine scientific activities in the EEZ and on the continental shelf of that state.

*Recognising that there is a need to revitalise the Regional Seas Programme in line with major changes in the UN system, it is **recommended** that for the Pacific SIDS:*

11. The South Pacific Regional Environment Programme's role be strengthened to facilitate increased participation in the Regional Seas Programme to promote regional cross-sectoral approaches to ocean and coastal management, and regional implementation of the Global Programme of Action, based on local and national actions. The role should also include assistance to each island state in adopting policy, institutional and legal reforms to implement the new cross-sectoral approaches to land, water, and ecosystem management.
12. The Pacific SIDS establish a mechanism for the development of an appropriate marine technology centre, dedicated to relevant technology transfer from the developed to the developing world, addressing the needs for implementation of international agreements.

*PIM XXVII confirms that there is an urgent need to develop co-management mechanisms in which the traditional owners in partnership with other major social development factors can play a key role in the sustainable management of their resources. It **recommends** that:*

13. Cultural and traditional aspects be incorporated into the techniques used to manage and protect marine resources, and these techniques be built into baseline surveys.
14. Existing and historical information from local fishers, who live and work around shallow-water areas be documented and assembled for use by scientists and management and regional agencies assume responsibility for assembling and disseminating this information.
15. New management strategies be developed which draw upon the foundations of traditional use and practices and incorporate the understanding and procedures developed through relevant science and technology, to address stresses on coastal ecosystems. These strategies should consider, *inter alia*
  - ◆ Pollution from sewage, fertilisers, biocides, toxic wastes, oil spills, solid wastes, freshwater runoff and other land-based sources of pollution
  - ◆ Increased human population resulting in greater demands on marine resources
  - ◆ Siltation due to soil erosion from inappropriately conducted land use practices (agriculture, forestry, mining, road-building, site clearance)
  - ◆ Over-exploitation of coral reef resources (for example commercially valuable species such as bêche-de-mer, giant clams, trochus, certain fish and shellfish, live coral and



ornamental fish harvesting for the aquarium and tourist trade, mining coral heads for construction, subsistence fishing pressure)

- ◆ Destructive fishing and collecting methods (poisons, explosives)
  - ◆ Land reclamation (including mangrove and reef flat destruction), inappropriate coastal protection works, and unsound mariculture practices
  - ◆ Coastal and marine development projects progressing without environmental impact assessment (EIA) or with inadequate EIAs
  - ◆ Channel blasting and dredging activities
  - ◆ Mining of beach and reef materials
  - ◆ Coastal erosion and accretion
  - ◆ Tourism activities and related developments
  - ◆ Military testing, training and dumping (including nuclear testing and munitions disposal)
  - ◆ Catastrophic events such as tropical cyclones, volcanic eruptions, earthquakes, tsunamis, coral bleaching, crown-of-thorns starfish infestations, severe El Niño-Southern Oscillation (ENSO) events, and possible climate change and sea-level rise.
16. Co-management systems include insurance companies through their experts in risk management and disaster preparedness and mitigation.
17. All traditional resource owners and users, including women and young persons, should be involved in the planning, decision-making and implementation of appropriate co-management regimes in the coastal environment.

*PIM XXVII recognises that deep sea mining has the potential to be a major issue for the SIDS, and recognises the responsibility of the International Seabed Authority to enhance the participation of developing countries, including SIDS, in activities relating to seabed mining and to assure them of their equitable share of the benefits, and **recommends** that:*

18. Measures be taken to avoid impacts of offshore mining on the marine environment
19. Recognising the unique nature of the biota associated with active hydrothermal zones, activities of marine scientific research and industry should ensure that there is an adequate understanding of the communities and the impacts of any associated mineral exploration and exploitation.
20. The collection of baseline environmental data be a condition of any exploration licence.
21. Coastal states adopt a proactive approach to all significant decision making activities related to environmental concerns respecting offshore mineral exploration and exploitation.
22. SIDS consider taking regional action to ensure that they obtain equitable benefits from foreign access to minerals in their EEZ.
23. Comprehensive offshore mineral policy and legislation should be developed by states.
24. The Seabed Authority should be encouraged to keep up with scientific discoveries and technological developments and adjust the scope of its activities to a changing reality.

*PIM XXVII recognises that ocean observation systems are important in the vast ocean areas surrounding SIDS. A Pacific Global Ocean Observing System (PacificGOOS) was approved by the UNESCO/IOC Assembly in 1997, and by the South Pacific Applied Geoscience Commission's Governing Council in 1997. Important beneficiaries of PacificGOOS are fisheries, coastal management, and weather and climate forecasts. SIDS have little capacity for participation in ocean observation systems, and need to find mechanisms whereby they can participate and benefit from them. It is **recommended** that:*

25. An inventory be made of GOOS related data being collected in the region by national and regional organisations, and by states and organisations outside the region, to facilitate development of a GOOS strategy.
26. Priority be given to increase observation activities aimed at improved weather and climate forecasting, sustainable and financially beneficial fisheries management, sustainable coastal management and at reducing risks from extreme climate events.
27. Awareness building and training programs be established to support PacificGOOS covering monitoring, development and use of end products, data management and modelling using existing arrangements where possible, such as existing regional organisations, the National Tidal Facility training activities and the proposed Asia Pacific Network workshop on developing climate indicators for extreme events.

*PIM XXVII recognises that SIDS are custodians of some of the world's most important marine biodiversity. The island peoples are seeking mechanisms whereby they can protect their intellectual property rights, and whereby they can benefit from them in a sustainable manner. It is **recommended** that:*

28. In accordance with the UN Convention on Biological Diversity, SIDS with the assistance of relevant regional organisations, should develop national regimes governing access to marine genetic resources, in order to prevent appropriation of their knowledge and genetic resources.
29. The biotic resources in the coastal zones of SIDS, including their EEZs, be documented.
30. Human resources development in marine biodiversity and marine bioprospecting be a priority for SIDS. It should focus on training in marine systematics so that people will better understand the nature of their genetic resources and be able to better develop measures for their conservation and sustainable use.
31. Priority be given to documenting rapidly disappearing traditional knowledge of marine biodiversity.
32. Pacific Island states need to implement their National Environment Management Strategies developed in preparation for UNCED.
33. There is a need for a regional policy on Marine Biodiversity Research and Bioprospecting.
34. The establishment of Marine Protected Areas must be a priority for all SIDS in order to conserve coastal biodiversity.

*PIM XXVII emphasises that;*

35. In all these action areas existing regional cooperation mechanisms be used in harmony with local and national authorities and NGOs. International NGOs such as the IOI may be used as facilitators or independent advisors when required and appropriate.

From: Watt, Ying <ywatt@Kilcom1.UCIS.Dal.Ca>  
To: ACoady8315@aol.com  
**Subject: ATO newsletter**  
Date sent: Wed, 17 May 2000 12:50:02 AST

Dear Anita,

Please find attached three electronic files:

- atomay.doc (Word97) has corrections highlighted for pages 1-3, 5-8 of the newsletter
- page4.doc (Word97) has corrections for that page
- atochart.xls (Excel) has two pie charts for page 8 with more accurate proportions.

A mega-paged hard copy is being faxed to you, in case you aren't able to read these files. It looks rather intimidating, but is mostly typos and maintaining consistency in style (spacing, italics, etc.). We have tried not to "play God" -- as the leader of our editing workshop put it -- but we hope you think so too! Anyway, these are just suggestions. You will not offend us by not incorporating all of them. We just hope this helps rather than hinders.

Bye for now,  
Ying

Attachments:

A:\atomay.doc

A:\page4.doc

L:\PUBLISH\ATO\atochart.xls

*was originated by Gunnar Kullenberg*

# ◇ Across the Oceans ◇



Newsletter of the International Ocean Institute

June 2000



*a concept paper on the purpose of the proposal*

## New Project

Establishing IOI as a virtual university is extremely ambitious, challenging and innovative according to Professor Elisabeth Mann Borgese, who originally introduced the idea to the November 1999 meeting of the Governing Board. A report will be presented at the June 2000 meeting of the Executive Committee outlining how to implement such a project which may have enormous impact on IOI's education and training activities in all eleven operational centers. Members of the working group include Professor Borgese, Dr. Yankov, Professor Fuse and directors of the operational centers in India, South Africa and Fiji.

This initiative responds to a number of challenges and new opportunities:

- the interdisciplinary character of contemporary knowledge which transcends the departmental divisions of traditional universities;
- the globalization of the communications revolution;
- the financial constraints on students especially those in developing countries; and
- the financial constraints on academic institutions around the world resulting in downsizing and privatization of universities.

The report will outline how IOI can continue to respond to the training and educational needs of people, especially those in developing countries who are working in ocean sectors.

## New People

*and Dr. Federico Mayar*

Professor Ruud Lubbers, former Prime Minister of the Netherlands has accepted IOI's invitation to join the Governing Board effective January 2000.

The IOI family continues to grow. During 1999 the eleventh operational center, IOI - Eastern Africa was established at the Kenya Marine and Fisheries Research Institute in Mombasa.

## Employment Opportunity

IOI is seeking applicants for the position of Executive Director.

Deadline: June 2000  
Starting Date: May 2001  
Salary: US\$ 60,000

Address inquiries to:  
IOI Headquarters,  
University of Malta, PO Box 3  
Gzira, GZR 01 MALTA



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## Members of the Governing Board

- Salvino Busuttill Malta *Father Peter*
- Nikolaus Gelpke Switzerland *Federico Mayar*
- Fujiko Hara Japan
- Ruud Lubbers Netherlands
- Jorge Mora Alfaro Costa Rica
- Alassane Dialy Ndiaye Senegal
- R. Natarajan India
- Christopher Pinto Sri Lanka
- Bhagwat Singh India
- Esekia Solofa Fiji
- Yoshio Suzuki Japan
- Anton Vratusa Slovenia
- Layashi Yaker Algeria

## Members of the Executive Committee

- Elisabeth Mann Borgese  
Founder  
Canada
- Joseph Warioba  
President  
Tanzania
- Alexander Yankov  
Vice President  
Bulgaria
- Anita Coady  
Treasurer  
Canada
- Tsutomu Fuse  
Chair Planning Council  
Japan
- Gunnar Kullenberg  
Secretary  
Executive Director  
Sweden

*Draft for discussion*

## Headquarters

University of Malta, Tal-Qroqq  
 PO Box 3, Gzira GZR 01 Malta  
 Tel : 356 346 528  
 Fax: 356 346 502  
 E-mail : [ioimla@kemmnet.net.mt](mailto:ioimla@kemmnet.net.mt)  
 Website : [www.ioi.nst.org/ioisa/](http://www.ioi.nst.org/ioisa/)

Dr. Gunnar Kullenberg and the staff in Malta play a pivotal part in the effective functioning of the expanding network of operational centers. As Secretary of the Governing Board Dr. Kullenberg reports the following decisions from the 1999 annual meeting in Fiji:

- approved 2000 budget of US\$ three million;
- reviewed the workplans from the 11 operational centers;
- introduced new programs to focus on women and youth;
- approved the Danielle St. Jorre Scholarship;
- endorsed the proposal to establish IOI as a Virtual University; and
- endorsed projects to honour Arvid Pardo.

In addition to the preparation for and participation in the Fiji meetings and PIM conference, the Executive Director represented IOI at a workshop on Coastal Megacities in Hangzhou, China in September and a seminar on Shipping and Pollution in Malacca in October 1999. He visited the IOI Operational Centers in Japan and China. In November he visited UNEP's Regional Office in Bangkok and in December he visited IMO in London.

During the coming year, IOI will continue to work with institutions and individuals who share our mission and aspirations notes Dr. Kullenberg. A new memorandum of understanding has been signed to continue IOI's role in the development of UNEP News Forum, an online news and information service that was launched in September 1999. Visit the site at: <http://gpanews.unep.org>. Phase two of a project on risk assessment in cooperation with Swiss Reinsurance Company of Zurich is scheduled to get underway later this year. Phase one of this project culminated with a workshop

on Risk Assessment and Disaster Mitigation held at the Bermuda Biological Station for Research on February 14-15 2000. The workshop provided an opportunity for experts from the insurance industry to meet marine scientists to discuss risk management issues of common interest in order to identify solutions and increase awareness as well as to prepare material for training modules directed at specific target groups. Visit IOI's website [www.ioinst.org](http://www.ioinst.org) for a summary of the workshop. While both of these projects have been under the leadership of IOI - Canada, they have involved other centers as well, notes Dr. Kullenberg. IOI has recently signed a partnership agreement with UNESCO to help promote the year 2000 as the International Year for the Culture of Peace.

Network wide projects focusing on women and youth will eventually involve all our centers notes Dr. Kullenberg. This year approximately US\$ 150,000 from the Women & the Sea donation will provide support directly to women who are working at grass roots levels in poor and disadvantaged coastal communities. For example, in Costa Rica IOI is working with displaced women in the Gulf of Nicoya area, whereas in India funds have been designated to install toilet facilities in several coastal villages in the Tuticorn district of Tamil Nadu. In Kenya IOI is working with women to promote mariculture of seaweed near Mombasa and in Southern Africa IOI has already been instrumental in the formation of a seaweed mariculture company operated by women in St. Helena's Bay area. In Fiji, a three year project focusing on women and fisheries will conduct special training courses as well as a regional conference on the role of women in the marine sector. In Canada, scholarships will be provided to women who wish to attend the annual summer training program at Dalhousie University. In Senegal the IOI is working to improve conditions of women in Kayar who work in seafood processing.




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**Our system-wide  
 projects enhance  
 cohesion and  
 cooperation  
 within our  
 organization**

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**G. Kullenberg**

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## News from Operational Centers

### Black Sea

Director : Dr. Alexandru Bologa  
 Romanian Marine Research Institute  
 Blvd. Mamaia 300,  
 RO-8700 Constanta 3 Romania  
 Tel : 40 41 643 288  
 Fax : 40 41 831 274  
 E-mail : abologa@alpha.rmri.ro

Proceedings of the September 1999 Black Sea Leadership Seminar, edited by Professor Bologa and R.H. Charlier, are now available from this center. In cooperation with MEDCOAST/METU Turkey, the 5th International Workshop on the Mediterranean and the Black Sea will be held in July. Contact Dr. Bologa for more details.

### Canada

Director : Mr. Robert Race  
 Dalhousie University  
 1226 LeMarchant Street  
 Dalhousie University  
 Halifax, Nova Scotia B3H 3P7  
 Canada  
 Tel : 1 902 494 6623 / 1737  
 Fax : 1 902 494 2034  
 E-mail : [ioihfx@dal.ca](mailto:ioihfx@dal.ca)  
 Website : <http://www.dal.ca/ioihfx/>

Law of the Sea, Agenda 21 and its Implementation, a ten week training program for 18 participants, will be conducted from May 29 to August 4. In its 20th year, the course will be directed by Dr. Noel Brown, former head of UNEP's Regional Office in New York. Guest lecturers will include Ambassador Neroni Slade from Samoa.

Building on a 1998 seminar organized in cooperation with IUCN for the benefit of delegates to the International Seabed Authority in Kingston, Jamaica, IOI - Canada sponsored a seminar March 24-26, 2000 attended by thirty-four delegates. The purpose of the workshop was not to discuss manganese nodules but rather to inform delegates of new emerging resources such as polymetallic crusts and sulphides, methane hydrates and ge-

netic resources co-habiting in these areas of the deep seabed. At present, these new scientific and technological developments are taking place outside, and quite independently, of the International Seabed Authority.

IOI - Canada's Advisory Board, chaired by the Hon. Allan J. MacEachen met on March 14 when approval was given for merger discussions between IOI - Canada and the Oceans Institute of Canada. The meeting established a working group to plan a workshop for senior Canadian government officials in departments concerned with oceans, such as the Department of Fisheries and Oceans and the Department of the Environment.

### China

Director : Prof. Hou Wenfeng  
 National Marine Data &  
 Information Service  
 State Oceanic Administration  
 93 Liuwei Road, Hedong District  
 Tianjin 300171, P.R. of China  
 Tel : 86 22 2430 1297  
 Fax : 86 22 2430 1292  
 E-mail : [houwf@netra.nmdis.gov.cn](mailto:houwf@netra.nmdis.gov.cn)

The following publications are available from this center:

*Summary Report on Training Course on Integrated Coastal Zone Management* held September 17-26, 1999 (14p);  
*Red Tide in China's Huanhai & Bohai Sea Area* 1999 (14p); and  
*Important Events on Implementing the GPA for Protection of the Marine Environment from Land Based Activities* 1999 (8p).

The five year memorandum of understanding has been renewed by IOI and SOA. Translation into Chinese of IOI publications such as the Annual Report and this newsletter is an ongoing activity. A refresher course for alumni will be held later this year.



IOI Virtual  
 University will  
 be a soft  
 structure & will  
 be extremely  
 flexible

Elisabeth Mann  
 Borgese

## News from Operational Centers

### Costa Rica

**Director : Dr. Alejandro Gutierrez**  
**Universidad Nacional**  
**PO Box 86, Heredia 3000**  
**Costa Rica**  
**Tel : 506 277 3594**  
**Fax : 506 260 2546**  
**E-mail : gechever@una.ac.cr**

On March 17, this center hosted a regional seminar focusing on a boundary dispute between Nicaragua and Colombia. According to Professor Gutierrez, while the dispute centers around the question of ownership of San Andrea's island, the meeting provided an opportunity for all legal and environmental issues to be considered with a view to settling this long-standing dispute. Following an agreement, signed in January by IDRC (Canada) and this center, staff are working in Spanish speaking areas of the Caribbean to heighten awareness of best practices in coastal zone management. Later this year, the center will hold a workshop on disaster mitigation in the Gulf of Nicoya region.

### Eastern Africa

**Director : Dr. Kuria K. Kairu**  
**Kenya Marine & Fisheries Research**  
**Institute, PO Box 81651**  
**Mombasa, Kenya**  
**Tel : 254 11 475 151**  
**Fax : 254 11 475 157**  
**E-mail : ioi-ea@recoscix.com**

This new member of the IOI family was established in late 1999 after a memorandum of understanding was signed by IOI and the Kenya Marine and Fisheries Research Institute. An Advisory Board has been formed which includes Dr. Nyawira Muthiga, Kenya Wildlife Services; Dr. J. Kazungu, Chief of Research at KMFRI; Professor Ntiba, Lake Victoria Fisheries Organization; and Dr. Julius Francis, Institute of Marine Science in Zanzibar.

An initial program of action has been developed with special focus on long-term

mangrove conservation. Cooperation with the other regional organization is being established as well as closer ties with other IOI centers in Africa. According to Dr. Kairu, there is considerable scope for education and training in the region served by the host institute. A project proposal on distance learning modules on marine environmental issues has been prepared in cooperation with IOI - Southern Africa.

### India

**Director : Dr. R. Rajagopalan**  
**Indian Institute of Technology Madras**  
**ICSR Building**  
**Chennai 600 036 India**  
**Tel : 91 44 445 8805**  
**Fax : 91 44 220 0559**  
**E-mail : ioi@vsnl.com**

Since 1998, IOI functions as a division of the Foundation for Sustainable Development India located on the campus of IIT in Chennai. The Eco-Village Project, funded since 1997 by GTZ (Germany), was carried out in forty disadvantaged coastal villages in Tamil Nadu. The project focuses on women, since they are under greater pressure. While IOI provides all the supervision, monitoring, informational and technical support, another local NGO (Aswain Trust) actually carries out the work in the villages. Activities have included the formation of self help groups with over 1100 members; the planting of more than 4000 saplings; the distribution of over 200 fuel efficient stoves; and the building of four rainwater harvesting tanks. With further funding from JFGE (Japan), much of the earlier activities will continue. Additional activities will include awareness programs at the village level, cleaning campaigns, the planting of community gardens on unused government land, and the creation of a cultural troupe consisting mainly of village women to create awareness of water conservation through song and street plays. Vermiculture has been introduced in two villages and the production of Spirulina continues in several villages.

An eighteen month project with the Shastri Institute of Canada wraps up in



**We focus on women  
 in disadvantaged  
 coastal communi-  
 ties for they are un-  
 der the greatest  
 pressure**

**R.  
 Rajagopalan**





.....the land, the sea  
and the air are the  
common heritage of  
all nations

**Ozaki Yukio  
(1858-1954)**

July. Project activities included fieldwork for collection of primary data backed up by secondary research from published material. The focus of this research is the local community and its knowledge system with reference to plant genetic resources. A field area in the Eastern Ghats of Tamil Nadu has been chosen for primary data collection. Three issues of the project newsletter "People, Plants and Resources" have been published and are available from this center.

A six month project funded by the World Bank will document, collate and critically review the available studies on the private health sector in India. In addition, a new project with the support of the Boston MIT branch of ASHA ( an organization of Indians in the USA), is hoping to bring fundamental changes to the lives of 70 of the most deserving children in the coastal villages by providing health and education needs as well as promoting talents and computer awareness.

This center hopes to co-sponsor a workshop with the Center for Scientific Research in Auroville, India which will explore such topics as afforestation, cost-effective shelters biogas, wind and solar technology and affordable ways to recycle waste-water.

### Japan

**Director : Ms. Masako Otsuka**  
**INTERCOM**  
**# 302 1-26-10 Komaba**  
**Meguro-ku, Tokyo 153-0041**  
**Japan**  
**Tel : 81 3 5454 0231**  
**Fax : 81 3 5454 0232**  
**E-mail : intercom@qb3.so-net.ne.jp**

Welcome Masako Otsuka as Director replacing Professor Fuse, who will chair the Advisory Board of IOI - Japan. According to Ms. Otsuka, this center maintains contact with past and potential funders such as the Nippon Foundation and is always busy with the translation into Japanese of print and video materials.

Elisabeth Mann Borgese, Founder and Honorary Chair of IOI was honoured in Tokyo by the Ozaki Yukio Memorial

Foundation when she received the fourth Ozaki Memorial Award in November 1999. According to the selection committee Professor Borgese was chosen "in recognition of her tireless efforts and inspiring leadership in the vital cause of protecting the world's oceans from pollution, over-exploitation and the dangers of international rivalry for marine resources"

The award is given to an individual who has performed outstanding work on behalf of humankind in keeping with the philosophy of Ozaki Yukio, one of Japan's most distinguished statesmen, who held that the land, the sea and the air are the common heritage of all nations. Ozaki Yukio (1858-1954) is respected as a man of principle whose life was given to the cause of democracy and popular government. He shared Professor Borgese's passion for world federation. Past recipients of the award have included Kato Shidzue, who pioneered the way for women to enter politics, did much to raise their social status, and was instrumental in inviting Margaret Sanger to Japan to teach Japanese women family planning; Ogata Sadako, the United Nations High Commissioner for Refugees; and Muhammad Yunus, founder of the Grameen Bank (Bangladesh) for helping the poorest of the poor to regain self confidence and rebuild their families and lives.

### Malta

**Director : Prof. Peter S. Inglott**  
**The Farmhouse**  
**Mediterranean Institute**  
**University of Malta**  
**Msida MSD 06 Malta**  
**Tel : 356 329 2430**  
**Fax : 356 320 717**  
**E-mail : mzammit@arts.um.edu.mt**

Located on the campus of the University of Malta, this center places a renewed emphasis on ocean governance issues and studies of the concept of common heritage. During the coming year Professor Inglott will collaborate with Professor Borgese to publish a book on the life of Arvid Pardo. Both are

members of the selection committee for the Arvid Pardo Prize.

A leadership seminar on Mediterranean Basin Co-development and Security in cooperation with UNEP, UNIDO and the government of Malta is scheduled for early October

### Pacific Islands

**Director : Dr. G. Robin South**  
Office of Marine Affairs  
University of the South Pacific  
PO Box 1168  
Suva, Fiji  
Tel : 679 305 272  
Fax : 679 305 559  
E-mail : [south\\_r@usp.ac.fj](mailto:south_r@usp.ac.fj)  
Website : <http://www.usp.ac.fj/loi>

Effective January 1, 2000 this center changed its name to IOI-Pacific Islands, which reflects more closely our strong affiliation with Pacific Island states Dr. South.

This center has been identified as a node for the Global Coral Reef Monitoring Network and will coordinate the program for Fiji, Samoa, Tonga, Tuvalu, Kirabati, and Nauru. The first task is the preparation of State of Coral Reef reports for the participating countries to be presented in May at the International Coral Reef (ICRI) meeting in Noumea.

Robin South and Joeli Veitayaki have completed a regional review of the impacts of global initiatives in the South Pacific.

Under the auspices of MSPTRAIN, which incorporates this center's training programs the following courses will be offered :

#### Taxonomy of Soft Corals

September 6-9, 2000. Course instructor is Dr. Phil Adlerslade from Australia. For more details contact [Sotheeswaran@usp.ac.fj](mailto:Sotheeswaran@usp.ac.fj)

#### Certificate in Climate Change Vulnerability and Adaptation Assessment

June 26 - October 13, 2000. For fur-

ther details check out the website at <http://www.usp.ac.fj>

### Senegal

**Director : Dr. Diafara Toure**  
Centre Recherches Oceanographiques de Dakar - Thiaroye  
B.P. 2241 Dakar Senegal  
Tel : 221 8340 462  
Fax : 221 8342 792  
E-mail : [dtoure@crodt.isra.sn](mailto:dtoure@crodt.isra.sn)

A two week training course to be held in July will focus on coastal zone management issues. For further details of the program contact this center directly. In preparation for this and other courses, considerable translation work is being carried out. Planning for the 2001 Pacem in Maribus conference is getting underway.

### Southern Africa

**Director : Dr. Derek W. Keats**  
Botany Department  
University of Western Cape  
P Bag X17, Bellville 7535 South Africa  
Tel : 2721 959 2304  
Fax : 2721 959 2266  
E-mail : [dkeats@botunix.uwc.ac.za](mailto:dkeats@botunix.uwc.ac.za)  
Website : <http://www.ioi.nst.org/loisa/>

Under the leadership of Derek Keats IOI - Southern Africa has grown rapidly since its creation in 1997. As part of the process of developing a sustainable management plan for the center, five program areas have been identified :

- Mariculture courses;
- Seaweed Biodiversity focusing on new economic uses as well as research into poorly understood crustose coralline algae;
- Sustainable Livelihoods and Integrated Coastal Management;
- Applications of Computer Networks in Education; and
- IOI-SA Online Services, a website development team providing services in order to generate funds for the center.

her websites under develop-  
IOI-SA Online Services can be  
the following  
[tea.botany](http://tea.botany)



**IOI - Pacific Islands  
fulfils its mission  
through four areas-  
marine awareness,  
marine conserva-  
tion,  
training, and info  
technology**

**Robin G. South**



...we will have to be  
very creative to  
ensure long-term  
sustainability of our  
center....

**Dr. Derek Keats**

### Seaweed Mariculture

The seaweed mariculture programs were the first IOI - Southern Africa sponsored activities. A series of courses on *Seaweed Mariculture for Community Development* have been well received and the December 1999 course brought together over twenty people from the coastal communities of sub-Saharan Africa. Results generated by ongoing mariculture research are not only for publication, according to Derek, but will enhance IOI's community development projects.

### Seaweed Biodiversity

Investigations of possible biomedical activities of certain red alga found along the coast are ongoing as are new studies on crustose coralline algal biodiversity and systematics especially along the eastern and southern coastlines.

### Sustainable Livelihoods

A long term research project involving literature search and questionnaire design has been ongoing in the St. Helena's Bay area.

### Computer Networks in Education

In March the center initiated a new distance learning project for coastal managers. SA-ISISlearn, is a learning resource that provides web-based learning materials and courseware. Courses are developed within the framework of the recent legislation on higher education, and the intention is to make them available for university credit as well as life-long learning programs. The first module of SA-ISISlearn is a course entitled *Introduction to Integrated Coastal Management* and is being offered from July 24 to October 30, 2000. To register or for further information consult the website at <http://sa-isislearn.uwc.ac.za/>

### IOI - SA Online

The center has recently completed the development of a website for the

Coastal Management Office of the South African Department of Environmental Affairs and Tourism. In December 1999 the South African Cabinet approved the White Paper for Sustainable Coastal Development which marks the first national policy for coastal management in the country. The website is a component of this new policy, a copy of which is available from the website.

Aside from the information about the Coastal Management Office, the site also contains information about management and decision-support tools, as well as CoastCARE, an initiative of the Coastal Management Office designed to encourage education on coastal issues. CoastCARE has produced a number of colorful and informative brochures, pamphlets and booklets addressing coastal issues. The site also contains a "What's new" section that highlights new national initiatives in the area of coastal and environmental management. There is a Focus On section dealing with specific ongoing activities such as the Blue Flag campaign. The international Blue Flag campaign is an incentive scheme that encourages local coastal authorities to manage their beaches in an environmentally friendly manner. "Did you know?" is an area of the website containing brief facts that are illustrated and linked by animation of coastal creatures. Of particular interest is a set of online tide tables.

The e-Journal Contact Update, which aims to "Take Parliament to the People and People to Parliament", described the site as "a valuable resource for those wanting to keep abreast of coastal issues in South Africa" Check out this new site at:

<http://www.environment.gov.za/sacoast/>

### Arvid Pardo Award

The Arvid Pardo Award for Research on the Concept of the Common Heritage was announced in Malta in January 2000.

This award was created by the Institute in 1992 and first awarded in 1997. Through this award IOI wishes to pay tribute to Arvid Pardo, the father of the contemporary Law of the Sea, the inspirer of the Pacem in Maribus Conferences and the International Ocean Institute.

The purpose of the award is to promote research, studies and the wider dissemination of the concept of Common Heritage. The research may be focused on one specific field but multidisciplinary studies will be encouraged. The award is granted for studies of a high scientific level with paractical signifigance.

Entries should be submitted to IOI Headquarters by end of June 2000. The award will consist of the publication of the study, and a prize of five thousand dollars.

### Danielle de St. Jorre Scholarhip

Danielle de St. Jorre was a member of the Governing Board of IOI and the Minister of Foreign Affairs of the Seychelles at the time of her death in 1997. To honour her memory, a scholarship has been created which will be awarded annually to a woman from a developing country who is pursuing studies in marine affairs.

The first recipient is Caroline Houareau a barrister and attorney with the Supreme Court of the Seychelles. Ms. Houareau will attend the ten week course in Halifax from May 29 to August 4, 2000.

*Small island developing State*

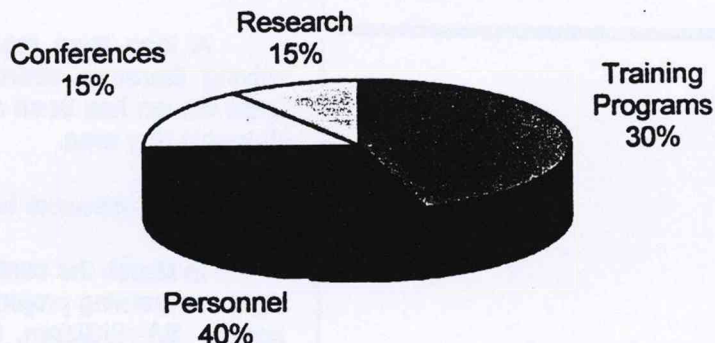
### Focus on Finances

Grants & Donaions  
60%



In Kind Contributions  
40%

### Total Expenditures for 1999 \$US 1,909,200.



These calculations are based on information presented on November 7, 1999 to the 38th meeting of the Governing Board.



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# Across the Oceans



Newsletter of the International Ocean Institute

July 2000



Walk it it make more sense to say "Establishing on the IOI virtual univ...?"

## New Project

Establishing IOI as a virtual university is extremely ambitious, challenging and innovative according to Professor Elisabeth Mann Borgese, who introduced a concept paper on the subject to the November 1999 meeting of the Governing Board, following the original proposal made by Dr. Gunnar Kullenberg. A report presented at the June 2000 meeting of the Executive Committee outlined how to implement such a project which may have enormous impact on IOI's education and training activities in all eleven operational centers. Members of the working group include Dr. Kullenberg, Professor Borgese, Dr. Yankov, Professor Fuse and directors of the operational centers in India, South Africa and Fiji.

This initiative responds to a number of challenges and new opportunities:

- the interdisciplinary character of contemporary knowledge which transcends the departmental divisions of traditional universities;
- the globalization of the communications revolution;
- the financial constraints on students, especially those in developing countries; and
- the financial constraints on academic institutions around the world resulting in downsizing and privatization of universities.

It is hoped that this initiative will help the IOI to continue to respond to the training and educational needs of people, especially those in developing countries who are working in ocean sectors.

## New People

Professor Ruud Lubbers, former Prime Minister of the Netherlands, and Professor Federico Mayor, former Director-General of UNESCO, have accepted IOI's invitation to join the Governing Board effective June 2000.

## Pacem in Maribus ← 2000 The European Challenge

This annual conference will be held from December 3-6, 2000 at the International Tribunal for the Law of the Sea, in Hamburg, Germany.

For further details,

Contact Headquarters in Malta, email : ioimla@kemmunet.net.mt or check IOI's website: <http://www.ioinst.org/ioisa/>



## Members of the Governing Board

Salvino Busuttill  
Malta

Nikolaus Gelpke  
Switzerland

Fujiko Hara  
Japan

Peter S. Inglott  
Malta

Ruud Lubbers  
Netherlands

Federico Mayor  
Spain

Jorge Mora Alfaro  
Costa Rica

Moussa Dialy Ndiaye  
Senegal

R. Natarajan  
India

Christopher Pinto  
Sri Lanka

Bhagwat Singh  
India

Esekia Solofa  
Fiji

Yoshio Suzuki  
Japan

Anton Vratusa  
Slovenia

Layashi Yaker  
Algeria

## Members of the Executive Committee

Elisabeth Mann Borgese  
Founder  
Canada

Joseph Warioba  
President  
Tanzania

Alexander Yankov  
Vice President  
Bulgaria

Anita Coady  
Treasurer  
Canada

Tsutomu Fuse  
Chair, Planning Council  
Japan

Gunnar Kullenberg  
Secretary/Executive Director  
Sweden

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Virtual University Project	1
Governing Board/Executive	1
News from Headquarters	2
News from Operational Centers	3-7
Tributes to Pardo/St. Jorre	8

Add space

Add comma

Delete extra spaces

Need line for spacing here?

→

NOTE

Email

Is this now the official URL, not www.ioi.uwc.ac.za/ioisa?

1266  
6/16  
12/40  
25

## Headquarters

University of Malta, Tal-Qroqq  
 PO Box 3, Gzira GZR 01 Malta  
 Tel : 356 346 528  
 Fax: 356 346 502  
 E-mail : [ioimla@kemmnet.net.mt](mailto:ioimla@kemmnet.net.mt)  
 Website : <http://www.ioinst.org/ioisa/>

Dr. Gunnar Kullenberg and the staff in Malta play a pivotal part in the effective functioning of the expanding network of operational centers. As Secretary of the Governing Board Dr. Kullenberg reports the following decisions from the 1999 annual meeting in Fiji:

- approved 2000 budget of US\$ three million;
- reviewed the workplans from the 11 operational centers;
- introduced new programs to focus on women and youth;
- approved the Danielle St. Jorre Scholarship;
- endorsed the proposal to establish IOI as a Virtual University; and
- endorsed projects to honour Arvid Pardo.

In addition to the preparation for and participation in the Fiji meetings and PIM conference, the Executive Director represented IOI at a workshop on Coastal Megacities in Hangzhou, China in September and a seminar on Shipping and Pollution in Malacca in October 1999. He visited the IOI Operational Centers in Japan and China. In November he visited UNEP's Regional Office in Bangkok and in December he visited IMO in London.

During the coming year, IOI will continue to work with institutions and individuals who share our mission and aspirations notes Dr. Kullenberg. A new memorandum of understanding has been signed to continue IOI's role in the development of UNEP News Forum, an online news and information service that was launched in September 1999. Visit the site at: <http://gpanews.unep.org>. Phase two of a project on risk assessment in cooperation with Swiss Reinsurance Company of Zurich is scheduled to get underway later this year. Phase one of this project culminated with a workshop

on Risk Assessment and Disaster Mitigation held at the Bermuda Biological Station for Research on February 14-15 2000. The workshop provided an opportunity for experts from the insurance industry to meet marine scientists to discuss risk management issues of common interest in order to identify solutions and increase awareness, as well as to prepare material for training modules directed at specific target groups. Visit IOI's website [www.ioinst.org](http://www.ioinst.org) for a summary of the workshop. While both of these projects have been under the leadership of IOI - Canada, they have involved other centers as well, notes Dr. Kullenberg. IOI has recently signed a partnership agreement with UNESCO to help promote the year 2000 as the International Year for the Culture of Peace.

Network-wide projects focusing on women and youth will eventually involve all our centers, notes Dr. Kullenberg. This year approximately US\$ 150,000 from the Women & the Sea donation will provide support directly to women who are working at grass roots levels in poor and disadvantaged coastal communities. For example, in Costa Rica IOI is working with displaced women in the Gulf of Nicoya area, whereas in India funds have been designated to install toilet facilities in several coastal villages in the Tuticorn district of Tamil Nadu. In Kenya IOI is working with women to promote mariculture of seaweed near Mombasa and in Southern Africa IOI has already been instrumental in the formation of a seaweed mariculture company operated by women in St. Helena's Bay area. In Fiji, a three year project focusing on women and fisheries will conduct special training courses as well as a regional conference on the role of women in the marine sector. In Canada, scholarships will be provided to women who wish to attend the annual summer training program at Dalhousie University. In Senegal the IOI is working to improve conditions of women in Kayar who work in seafood processing.



**Our system-wide projects enhance cohesion and cooperation within our organization**

**G. Kullenberg**

Contac

**News from Operational Centers**

**Black Sea**

**Director : Dr. Alexandru S. Bologa**  
**National Institute for Marine Research & Development, Blvd. Mamaia 300,**  
**RO-8700 Constanta 3, Romania**  
**Tel : 40 41 543 288**  
**Fax : 40 41 831 274**  
**E-mail : abologa@alpha.rmri.ro**

Proceedings of the September 1999 Black Sea Leadership Seminar, edited by Professors Bologa and R.H. Charlier, are now available. In cooperation with MED-COAST/METU Turkey, the 5th International Training Programme on Beach Management in the Mediterranean and the Black Sea will be held in July. Contact Dr. Bologa for more details.

**Canada**

**Director : Mr. Robert Race**  
**Dalhousie University**  
**1226 LeMarchant Street**  
**Dalhousie University**  
**Halifax, Nova Scotia B3H 3P7**  
**Canada**  
**Tel : 1 902 494 6623 / 1737**  
**Fax : 1 902 494 2034**  
**E-mail : ioihfx@dal.ca**  
**Website : http://www.dal.ca/ioihfx/**

Law of the Sea, Agenda 21 and its Implementation, a ten week training program for 18 participants, was inaugurated on May 29. In its 20th year, the course is directed by Dr. Noel Brown, former head of UNEP's Regional Office in New York. Guest lecturers will include Ambassador Neroni Slade from Samoa.

Building on a 1998 seminar organized in cooperation with IUCN for the benefit of delegates to the International Seabed Authority in Kingston, Jamaica, IOI - Canada sponsored a seminar March 24-26, 2000 attended by thirty-four delegates. The purpose of the workshop was not to discuss manganese nodules but rather to inform delegates of new emerging resources such as polymetallic crusts and sulphides, methane hydrates and genetic resources co-habiting in these areas of

the deep seabed. At present, these new scientific and technological developments are taking place outside, and quite independently, of the International Seabed Authority.

IOI - Canada's Advisory Board, chaired by the Hon. Allan J. MacEachern met on March 10 and June 20. The meetings approved merger discussions between IOI - Canada and the Oceans Institute of Canada. A committee was established to plan a workshop for senior Canadian government officials in departments concerned with oceans, such as the Department of Fisheries and Oceans and the Department of the Environment.

**China**

**Director : Prof. Hou Wenfeng**  
**National Marine Data & Information Service**  
**State Oceanic Administration**  
**93 Liuwei Road, Hedong District**  
**Tianjin 300171, P.R. of China**  
**Tel : 86 22 2430 1297**  
**Fax : 86 22 2430 1292**  
**E-mail : houwf@netra.nmdis.gov.cn**  
**or qinli@public1.tpt.tj.cn**

The following publications are available from this center:

- Summary Report on Training Course on Integrated Coastal Zone Management held September 17-26, 1999 (14p)
- Red Tide in China's Huanhai & Bohai Sea Area 1999 (14p); and
- Important Events on Implementing the GPA for Protection of the Marine Environment from Land Based Activities 1999 (8p)

The five year memorandum of understanding has been renewed by IOI and SOA. Translation into Chinese of IOI publications such as the Annual Report and this newsletter is an ongoing activity. A refresher course for alumni will be held later this year.

Members of the IOI-China Advisory Committee, chaired by Chen Bing-Xin, former Deputy Administrator of SOA, are working to establish a distance learning system to amplify and diversify future course offerings.



**IOI Virtual University will be a soft structure & will be extremely flexible**

**Elisabeth Mann Borgese**

Move this or down one line?

she usually uses program in this newsletter

7 or 2? what of ioi@netra.nmdis.gov.cn? itzlics?

pp.?

**News from Operational Centers**

**Costa Rica**

**Director : Dr. Alejandro Gutierrez**  
**Universidad Nacional**  
**PO Box 86, Heredia 3000**  
**Costa Rica**  
**Tel : 506 277 3594**  
**Fax : 506 260 2546**  
**E-mail : gechever@una.ac.cr**

On March 17-18, this center hosted a regional seminar entitled "Maritime Delimitation in Central America and the Caribbean" which examined a boundary dispute between Honduras and Nicaragua. According to Professor Gutierrez, while the dispute centers around the question of ownership of San Andrea's island, the meeting provided an opportunity for all legal and environmental issues to be considered with a view to settling this long-standing dispute. Following an agreement, signed in January by IDRC (Canada) and this center, staff are working in Spanish speaking areas of the Caribbean to heighten awareness of best practices in coastal zone management. The center is carrying out considerable reconstruction work under the auspices of NOAA/OAS.

**Eastern Africa**

**Director : Dr. Kuria K. Kairu**  
**Kenya Marine & Fisheries Research Institute, PO Box 81651**  
**Mombasa, Kenya**  
**Tel : 254 11 475 151**  
**Fax : 254 11 475 157**  
**E-mail : ioi-ea@recoscix.org**

This new member of the IOI family was established in late 1999 after a memorandum of understanding was signed by IOI and the Kenya Marine and Fisheries Research Institute. An Advisory Board has been formed which includes Dr. Nyawira Muthiga, Kenya Wildlife Services; Dr. J. Kazungu, Chief of Research at KMFRI; Professor Ntiba, Lake Victoria Fisheries Organization; and Dr. Julius Francis, Institute of Marine Science in Zanzibar.

An initial program of action has been developed with special focus on long-term mangrove conservation. Cooperation with the other regional organiza-

tion is being established as well as closer ties with other IOI centers in Africa. According to Dr. Kairu, there is considerable scope for education and training in the region served by the host institute. A project proposal on distance learning modules on marine environmental issues has been prepared in cooperation with IOI - Southern Africa.

**India**

**Director : Dr. R. Rajagopalan**  
**Indian Institute of Technology Madras**  
**ICSR Building, 1<sup>st</sup> Floor**  
**Chennai 600 036 India**  
**Tel : 91 44 445 8805**  
**Fax : 91 44 220 0559**  
**E-mail : ioi@vsnl.com**

Since 1998, IOI functions as a division of the Foundation for Sustainable Development (India) located on the campus of IIT in Chennai. The Eco-Village Project, funded since 1997 by GTZ (Germany), was carried out in forty disadvantaged coastal villages in Tamil Nadu. The project focuses on women, since they are under greater pressure. While IOI provides all the supervision, monitoring, informational and technical support, another local NGO (Anawim Trust) actually carries out the work in the villages. Activities have included the formation of self help groups with over 1100 members; the planting of more than 4000 saplings; the distribution of over 200 fuel efficient stoves; and the building of four rainwater harvesting tanks. With further funding from JFGE (Japan), much of the earlier activities will continue. Additional activities will include awareness programs at the village level, cleaning campaigns, the planting of community gardens on unused government land, and the creation of a cultural troupe consisting mainly of village women to create awareness of water conservation through song and street plays. Vermiculture has been introduced in two villages and the production of Spirulina continues in several villages.

A project with the Shastri Indo-



**We focus on women in disadvantaged coastal communities for they are under the greatest pressure**  
**R. Rajagopalan**

*Add line, drop it to same line as Rajagopalan.*



News from Operational Centers



....the land, the sea and the air are the common heritage of all nations

Ozaki Yukio (1858-1954)

Canadian Institute continues until December 2000. Project activities included fieldwork for collection of primary data backed up by secondary research from published material. The focus of this research is the local community and its knowledge system with reference to plant genetic resources. A field area in the Eastern Ghats of Tamil Nadu has been chosen for primary data collection. Four issues of the project newsletter "People, Plants and Resources" have been published and are available from this center.

A six month project funded by the World Bank will document, collate and critically review the available studies on the private health sector in India. In addition, a new project with the support of the Boston MIT branch of ASHA ( an organization of Indians in the USA), is hoping to bring fundamental changes to the lives of 70 of the most deserving children in the coastal villages by providing health and education needs as well as promoting talents and computer awareness.

This center hopes to co-sponsor a workshop with the Center for Scientific Research in Auroville, India which will explore such topics as afforestation, cost-effective shelters biogas, wind and solar technology and affordable ways to recycle waste-water.

in Tokyo by the Ozaki Yukio Memorial Foundation when she received the fourth Ozaki Memorial Award in November 1999. According to the selection committee, Professor Borgese was chosen "in recognition of her tireless efforts and inspiring leadership in the vital cause of protecting the world's oceans from pollution, over-exploitation and the dangers of international rivalry for marine resources".

The award is given to an individual who has performed outstanding work on behalf of humankind in keeping with the philosophy of Ozaki Yukio, one of Japan's most distinguished statesmen, who held that the land, the sea and the air are the common heritage of all nations. Ozaki Yukio (1858-1954) is respected as a man of principle whose life was given to the cause of democracy and popular government. He shared Professor Borgese's passion for world federation. Past recipients of the award have included Kato Shidzue, who pioneered the way for women to enter politics, did much to raise their social status, and was instrumental in inviting Margaret Sanger to Japan to teach Japanese women family planning; Ogata Sadako, the United Nations High Commissioner for Refugees; and Muhammad Yunus, founder of the Grameen Bank for helping the poorest of the poor to regain self confidence and rebuild their lives.

Japan

Director : Ms. Masako Otsuka  
**INTERCOM Inc.**  
 # 302 1-26-10 Komaba  
 Meguro-ku, Tokyo 153-0041  
 Japan  
 Tel : 81 3 5454 0231  
 Fax : 81 3 5454 0232  
 E-mail : intercom@qb3.so-net.ne.jp

Welcome Masako Otsuka as Director replacing Professor Fuse, who will chair the Advisory Board of IOI - Japan. According to Ms. Otsuka, this center maintains contact with past and potential funders such as the Nippon Foundation and is always busy with the translation into Japanese of print and video materials.

Elisabeth Mann Borgese, Founder and Honorary Chair of IOI, was honoured

Malta

Director : Prof. Peter S. Inglott  
**The Farmhouse**  
**Mediterranean Institute**  
**University of Malta**  
 Msida MSD 06 Malta  
 Tel : 356 329 2430  
 Fax : 356 320 717  
 E-mail : mzammit@arts.um.edu.mt

Located on the campus of the University of Malta, this center places a renewed emphasis on ocean governance issues and studies of the concept of common heritage. A leadership seminar on Mediterranean Basin Co-development and Security in cooperation with UNEP, UNIDO and the government of Malta is scheduled for early October.

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 22-1-24<sup>th</sup> September!

## News from Operational Centers

### Pacific Islands

Director : Dr. G. Robin South  
 Marine Studies Programme  
 University of the South Pacific  
 PO Box 1168

Suva, Fiji

Tel : 679 301 490 or 446 ?

Fax : 679 305 559 or 446 301 490 ?

E-mail : south\_r@usp.ac.fj

Website : <http://www.usp.ac.fj/marine>

Effective January 1, 2000 this center changed its name to IOI Pacific Islands, which reflects more closely our strong affiliation with the Pacific Islands nations notes Dr. South. Our center has been identified as a node for the Global Coral Reef Monitoring Network and will coordinate the program for Fiji, Samoa, Tonga, Tuvalu, Kirabati, and Nauru. The first task is the preparation of State of the Coral Reef Reports for the participating countries at the upcoming International Coral Reef meeting in Numea.

Robin South and Joeli Veitayaki have completed a regional review of the impacts of global initiatives in the South Pacific.

Courses offered under the auspices of MSPTRAIN, which incorporates IOI training programmes have for the most part, been re-scheduled, due to recent events within Fiji.

#### Taxonomy of Soft Corals

September 6-9, 2000

Contact: Sotheeswaran@usp.ac.fj

#### Certificate in Climate Vulnerability and Adaptation Assessment

June 26 - October 13, 2000

Contact: <http://www.usp.ac.fj>

### Senegal

Director : Dr. Diafara Toure  
 Centre Recherches Oceanographiques de Dakar-Thiaroye

B.P. 2241 Dakar, Senegal

Tel : 221 834 8041/638 8524

Fax : 221 834 2792

E-mail : dtoure@crodt.isra.sn

A two week course on coastal zone management issues will be hosted by this center later this month. For more details of this French language course, contact the center. In preparation for this and other training programs, considerable translation work has been carried out. Planning for the 2001 Pacem in Maribus Conference to be held in Dakar is getting underway.

### Southern Africa

Director : Prof. Derek W. Keats  
 Botany Department

University of Western Cape

P. Bag X17, Bellville 7535

South Africa

Tel : 2721 959 2304

Fax : 2721 959 2266

E-mail : dkeats@botunix.uwc.ac.za

Website : <http://www.ioinst.org/ioisa/>

Under the leadership of Derek Keats IOI - Southern Africa has grown rapidly since its creation in 1997. As part of the process of developing a sustainable management plan for the center, five program areas have been identified:

- Mariculture Courses;
- Seaweed Biodiversity focusing on new economic uses as well as research into poorly understood crustose coralline algae;
- Sustainable Livelihoods and Integrated Coastal Management;
- Applications of Computer Networks in education; and
- IOI - SA Online Services, a website development team providing services in order to generate funds for the center.



**IOI - Pacific Islands fulfils its mission through four areas- marine awareness, marine conservation, training, and info technology**

**G. Robin South**

## News from Operational Centers



...we will have to be very creative to ensure long-term sustainability of our center....

Derek W. Keats

### Seaweed Mariculture

The seaweed mariculture programs were the first IOI - Southern Africa sponsored activities. A series of courses on Seaweed Mariculture for Community Development have been well received and the December 1999 course brought together twenty people from the coastal communities of sub-Saharan Africa. Results generated by ongoing mariculture research are not only for publication, according to Derek, but will enhance IOI's community development projects.

### Seaweed Biodiversity

Investigations of possible biomedical activities of ~~of~~ certain red ~~algae~~ found along the coast are ongoing, as are new studies on crustose coralline algal biodiversity and systematics especially along the eastern and southern coastlines.

### Sustainable Livelihoods

A long term research project involving literature searches and questionnaire design has been ongoing in the St. Helena's Bay area.

### Computer Networks in Education

In March the center initiated a new distance learning project for coastal managers. SA-ISISlearn, is a learning resource that provides web-based learning materials and courses which are developed within the framework of the recent legislation on higher education. These courses are intended for university students and the general public. The first module of SA-ISISlearn is a course entitled *Introduction to Integrated Coastal Management* which is offered from 24 July to 30 October, 2000. To register for more information consult the course website : <http://sa-isislearn.uwc.ac.za/>

### IOI - SA Online

Staff have recently developed a website for the Coastal Management Office of the South African Department of Environ-

mental Affairs and Tourism. In December 1999 the South African Cabinet approved the White Paper for Sustainable Development which marks the first national policy for coastal management in the country. The website is a component of this new policy, a copy of which is available from the website.

In addition to the information about the Coastal Management Office, the site provides helpful tips on management and decision-support tools, as well as CoastCARE, a public awareness program. CoastCARE has produced a number of colorful and informative brochures and booklets which address coastal issues. ~~What's New~~ section highlights new national initiatives in coastal and environmental management. The "Focus On" section deals with specific activities, such as the Blue Flag campaign, an incentive scheme that encourages local coastal authorities to manage their beaches in an environmentally friendly way. The "Did you know" section contains brief facts and frequently asked questions that are illustrated and animated.

The e-Journal Contact Update, which aims to take ~~parliament~~ to the people and the people to parliament described this site as "a valuable resource for those wanting to keep in touch with coastal issues in South Africa". Check out this new website at: <http://www.environment.gov.za/sacoast/>

### New Affiliates

During 1999 the following new IOI affiliates were established:

IOI - Ukraine Affiliate  
 Dr. Victoria N. Radchencko  
 Institute of Biology of Southern Seas  
 Nakhimov Av 3/2 , Sevastapol  
 99 011 Ukraine  
 Email : [radalpin@ibss.iuf.net](mailto:radalpin@ibss.iuf.net)

IOI - Russia Affiliate  
 Dr. Valerie Papounov  
 Physical Sector, IORAN  
 36 Nakhimovskiy Lane  
 117851 Moscow, Russia

### Arvid Pardo Award

The Arvid Pardo Award for Research on the Concept of the Common Heritage was announced in Malta in January 2000. *? what does this mean, given the next sentence?*

This award was created by the Institute in 1992 and first awarded in 1997. Through this award IOI wishes to pay tribute to Arvid Pardo, the father of the contemporary Law of the Sea, the inspirer of the Pacem in Maribus Conferences and the International Ocean Institute.

The purpose of the award is to promote research, studies and the wider dissemination of the concept of Common Heritage. The research may be focused on one specific field but multidisciplinary studies will be encouraged. The award is granted for studies of a high scientific level with practical significance. *ADD MORE PARS SPACING*

Entries should be submitted to IOI Headquarters by end of June 2000. The award will consist of the publication of the study, and a prize of five thousand dollars. *headline is now end sept.*

### Danielle de St. Jorre Scholarship

Danielle de St. Jorre was a member of the Governing Board of IOI and the Minister of Foreign Affairs of the Seychelles at the time of her death in 1997. To honour her memory, a scholarship has been created which will be awarded annually to a woman from a small island developing country who is pursuing studies in marine affairs.

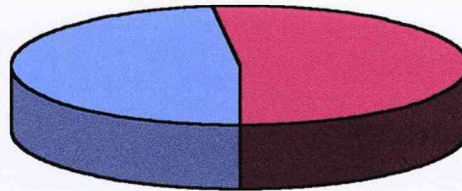
The first recipient is Caroline Houareau a barrister and attorney with the Supreme Court of the Seychelles. Ms. Houareau will attend the ten week course in Halifax from May 29 to August 4, 2000. *is attending*

*Since p.3 has the inauguration of our course in the past tense.*

### Focus on Finances

**Total Income for 1999**  
**\$US1,906,624.00**

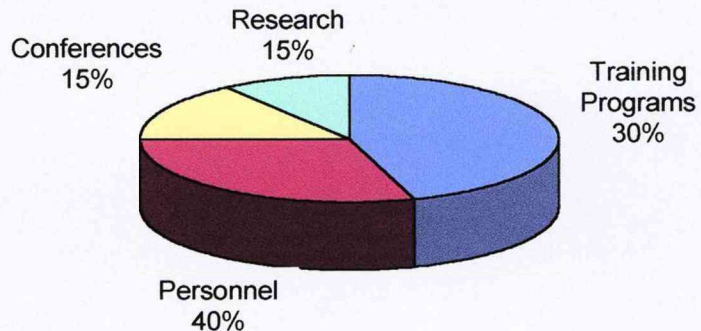
Grants & Donations  
 60% *←*



In Kind Contributions  
 40%

*Adjust chart?!*

**Total Expenditures for 1999**  
**\$US 1,806,991.00**



This information is based on the audited reports and financial statements prepared by Deloitte & Touche on 26 May 2000.



July 16<sup>th</sup>

Dalene - Madeline - Yany

I spoke to Robert on Friday  
about your assistance in finalizing  
July ATO

I enclose (1) copies of latest <sup>PDF</sup> WordPub  
revisions of newsletter

(2) a paper copy

(3) CD w program<sup>10</sup>

use to create newsletter  
re office public

Could you please prepare end of this week

- make revisions to formatting i.e.  
clean up missing lines
- make revisions to text - typos etc
- priority mail to me in Mayaguez  
final version so I can email  
it to all 12 centres before

25<sup>th</sup> July

Thanks

Amie

## ACTIVITY REPORT

TIME : 07/25/2000 09:00  
 NAME : INTL OCEAN INST  
 FAX : 1-902-494-2034  
 TEL : 1-902-494-1737

DATE	TIME	FAX NO./NAME	DURATION	PAGE(S)	RESULT	COMMENT
07/21	09:03	+43 1 5139238	45	01	OK	RX
07/21	16:02	9024684559	39	01	OK	RX
07/24	09:51	9028682455	06:03	11	OK	RX
07/24	13:02	212 963 5847	01:02	01	OK	RX
07/24	21:13	19024255812	36	01	OK	RX

BUSY : BUSY/NO RESPONSE  
 NG : POOR LINE CONDITION  
 CV : COVERPAGE  
 CA : CALL BACK MSG  
 POL : POLLING  
 RET : RETRIEVAL

Anita's MS Office '97  
 Small business Edition

Product ID number from  
 Certificate of Authenticity.

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# ◆ Across the Oceans ◆



Newsletter of the International Ocean Institute

July 2000



## New Project

Establishing an IOI virtual university is extremely ambitious, challenging and innovative according to Professor Elisabeth Mann Borgese, who introduced a concept paper on the subject to the November 1999 meeting of the Governing Board, following the original proposal made by Dr. Gunnar Kullenberg. A report presented at the June 2000 meeting of the Executive Committee outlined how to implement such a project which may have enormous impact on IOI's education and training activities in all eleven operational centers. Members of the working group include Dr. Kullenberg, Professor Borgese, Dr. Yankov, Professor Fuse and directors of the operational centers in India, South Africa and Fiji.

This initiative responds to a number of challenges and new opportunities:

- the interdisciplinary character of contemporary knowledge which transcends the departmental divisions of traditional universities;
- the globalization of the communications revolution;
- the financial constraints on students, especially those in developing countries; and
- the financial constraints on academic institutions around the world resulting in downsizing and privatization of universities.

It is hoped that this initiative will help the IOI to continue to respond to the training and educational needs of people, especially those in developing countries who are working in ocean sectors.

## New People

Professor Ruud Lubbers, former Prime Minister of the Netherlands, and Professor Federico Mayor, former Director-General of UNESCO, have accepted IOI's invitation to join the Governing Board effective June 2000.

## Pacem in Maribus 2000 The European Challenge

This annual conference will be held from December 3 – 6, 2000 at the International Tribunal for the Law of the Sea, in Hamburg, Germany.

For further details, contact:

Headquarters in Malta  
E-mail: [ioimla@kemmnet.net.mt](mailto:ioimla@kemmnet.net.mt)  
or check IOI's website:  
<http://www.ioinst.org/ioisa/>



## Members of the Governing Board

- Salvino Busuttil  
Malta
- Nikolaus Gelpke  
Switzerland
- Fujiko Hara  
Japan
- Peter Serracino Inglott  
Malta
- Ruud Lubbers  
Netherlands
- Federico Mayor  
Spain
- Jorge Mora Alfaro  
Costa Rica
- Alassane Dialy Ndiaye  
Senegal
- R. Natarajan  
India
- Christopher Pinto  
Sri Lanka
- Bhagwat Singh  
India
- Esekia Solofa  
Fiji
- Yoshio Suzuki  
Japan
- Anton Vratuša  
Slovenia
- Layashi Yaker  
Algeria

## Members of the Executive Committee

- Elisabeth Mann Borgese  
Founder  
Canada
- Joseph Warioba  
President  
Tanzania
- Alexander Yankov  
Vice President  
Bulgaria
- Anita Coady  
Treasurer  
Canada
- Tsutomu Fuse  
Chair, Planning Council  
Japan
- Gunnar Kullenberg  
Secretary/Executive Director  
Sweden

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Tributes to Pardo/St. Jorre	8

## Headquarters

University of Malta, Tal-Qroqq  
 PO Box 3, Gzira GZR 01  
 Malta  
 Tel: 356 346 528  
 Fax: 356 346 502  
 E-mail: [ioimla@kemmnet.net.mt](mailto:ioimla@kemmnet.net.mt)  
 Website: [http:// www.ioinst.org/ioisa/](http://www.ioinst.org/ioisa/)

Dr. Gunnar Kullenberg and the staff in Malta play a pivotal part in the effective functioning of the expanding network of operational centers. As Secretary of the Governing Board Dr. Kullenberg reports the following decisions from the 1999 annual meeting in Fiji:

- approved 2000 budget of US\$ three million;
- reviewed the workplans from the 11 operational centers;
- introduced new programs to focus on women and youth;
- approved the Danielle de St. Jorre Scholarship;
- endorsed the proposal to establish an IOI Virtual University; and
- endorsed projects to honour Arvid Pardo.

In addition to the preparation for and participation in the Fiji meetings and PIM conference, the Executive Director represented IOI at a workshop on Coastal Megacities in Hangzhou, China in September and a seminar on Shipping and Pollution in Malacca in October 1999. He visited the IOI Operational Centers in Japan and China. In November he visited UNEP's Regional Office in Bangkok and in December he visited IMO in London.

During the coming year, IOI will continue to work with institutions and individuals who share our mission and aspirations, notes Dr. Kullenberg. A new memorandum of understanding has been signed to continue IOI's role in the development of the *UNEP/GPA News Forum*, an online news and information service that was launched in September 1999. Visit the site at: <http://gpanews.unep.org>. Phase two of a project on risk assessment in cooperation with Swiss Reinsurance Company of Zurich is scheduled to get underway later

this year. Phase one of this project culminated with a workshop on Risk Assessment and Disaster Mitigation held at the Bermuda Biological Station for Research on February 14 – 15 2000. The workshop provided an opportunity for experts from the insurance industry to meet marine scientists to discuss risk management issues of common interest in order to identify solutions and increase awareness, as well as to prepare material for training modules directed at specific target groups. Visit IOI's website [www.ioinst.org/ioisa](http://www.ioinst.org/ioisa) for a summary of the workshop. While both of these projects have been under the leadership of IOI – Canada, they have involved other centers as well, notes Dr. Kullenberg. IOI has recently signed a partnership agreement with UNESCO to help promote the year 2000 as the International Year for the Culture of Peace.

Network-wide projects focusing on women and youth will eventually involve all our centers, notes Dr. Kullenberg. This year approximately US\$ 150,000 from the Women & the Sea donation will provide support directly to women who are working at grass roots levels in poor and disadvantaged coastal communities. For example, in Costa Rica IOI is working with displaced women in the Gulf of Nicoya area, whereas in India funds have been designated to install toilet facilities in several coastal villages in the Tuticorn district of Tamil Nadu. In Kenya IOI is working with women to promote mariculture of seaweed near Mombasa, and in Southern Africa IOI has already been instrumental in the formation of a seaweed mariculture company operated by women in St. Helena's Bay area. In Fiji, a three year project focusing on women and fisheries will conduct special training courses as well as a regional conference on the role of women in the marine sector. In Canada, scholarships will be provided to women who wish to attend the annual summer training program at Dalhousie University. In Senegal the IOI is working to improve conditions of women in Kayar who work in seafood processing.




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**Our system-wide  
 projects enhance  
 cohesion and  
 cooperation  
 within our  
 organization**

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**G. Kullenberg**

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## News from Operational Centers

### Black Sea

**Director: Dr. Alexandru S. Bologa**  
**National Institute for Marine Research & Development, Blvd. Mamaia 300,**  
**RO-8700 Constanta 3**  
**Romania**  
**Tel: 40 41 643 288**  
**Fax: 40 41 831 274**  
**E-mail: abologa@alpha.rmri.ro**

Proceedings of the September 1999 Black Sea Leadership Seminar, edited by Professors Bologa and R.H. Charlier, are now available. In cooperation with MEDCOAST/METU Turkey, the 5th International Training Program on Beach Management in the Mediterranean and the Black Sea will be held in July. Contact Dr. Bologa for more details.

### Canada

**Director: Mr. Robert Race**  
**Dalhousie University**  
**1226 LeMarchant Street**  
**Halifax, Nova Scotia B3H 3P7**  
**Canada**  
**Tel: 1 902 494 6623 / 1737**  
**Fax: 1 902 494 2034**  
**E-mail: ioihfx@dal.ca**  
**Website: <http://www.dal.ca/ioihfx/>**

*The United Nations Convention on the Law of the Sea: Its Implementation and Agenda 21*, a ten-week training program for 18 participants, was inaugurated on May 29. In its 20th year, the course is directed by Dr. Noel Brown, former head of UNEP's Regional Office in New York. Guest lecturers will include Ambassador Neroni Slade from Samoa.

Building on a 1998 seminar organized in cooperation with IUCN for the benefit of delegates to the International Seabed Authority in Kingston, Jamaica, IOI – Canada sponsored a seminar March 24 – 26, 2000 attended by thirty-four delegates. The purpose of the workshop was not to discuss manganese nodules but rather to inform delegates of new emerging resources such as polymetallic crusts and sulphides, methane hydrates and genetic resources co-habiting in these areas

of the deep seabed. At present, these new scientific and technological developments are taking place outside, and quite independently of, the International Seabed Authority.

IOI – Canada's Advisory Board, chaired by the Hon. Allan J. MacEachen, met on March 10 and June 20. The meetings approved merger discussions between IOI – Canada and the Oceans Institute of Canada. A committee was established to plan a workshop for senior Canadian government officials in departments concerned with oceans, such as the Department of Fisheries and Oceans and the Department of the Environment.

### China

**Director: Prof. Hou Wenfeng**  
**National Marine Data & Information Service**  
**State Oceanic Administration**  
**93 Liuwei Road, Hedong District**  
**Tianjin 300171, P.R. of China**  
**Tel: 86 22 2430 1292**  
**Fax: 86 22 2430 1292**  
**E-mail: [houwf@netra.nmdis.gov.cn](mailto:houwf@netra.nmdis.gov.cn)**  
**or [qinli@public1.tpt.tj.cn](mailto:qinli@public1.tpt.tj.cn)**

The following publications are available from this center:

*Summary Report on Training Course on Integrated Coastal Zone Management* held September 17 – 26, 1999 (14pp.);  
*Red Tide in China's Huanhai & Bohai Sea Area 1999* (14pp.); and  
*Important Events on Implementing the GPA for Protection of the Marine Environment from Land Based Activities 1999* (8pp.).

The five year memorandum of understanding has been renewed by IOI and SOA. Translation into Chinese of IOI publications such as the Annual Report and this newsletter is an ongoing activity. A refresher course for alumni will be held later this year.

Members of the IOI – China Advisory Committee, chaired by Chen Bing-Xin, former Deputy Administrator of SOA, are working to establish a distance learning system to amplify and diversify future course offerings.



**IOI Virtual University will be a soft structure & will be extremely flexible**

**Elisabeth Mann Borgese**

## News from Operational Centers

### Costa Rica

**Director: Dr. Alejandro Gutiérrez**  
**Universidad Nacional**  
**PO Box 86, Heredia 3000**  
**Costa Rica**  
**Tel: 506 277 3594**  
**Fax: 506 260 2546**  
**E-mail: gechever@una.ac.cr**

On March 17 – 18, this center hosted a regional seminar entitled "Maritime Delimitation in Central America and the Caribbean" which examined a boundary dispute between Honduras and Nicaragua. According to Professor Gutiérrez, while the dispute centers around the question of ownership of San Andrea's island, the meeting provided an opportunity for all legal and environmental issues to be considered with a view to settling this long-standing dispute. Following an agreement, signed in January by IDRC (Canada) and this center, staff are working in Spanish speaking areas of the Caribbean to heighten awareness of best practices in coastal zone management. The center is carrying out considerable reconstruction work under the auspices of NOAA/OAS.

### Eastern Africa

**Director: Dr. K. Kairu**  
**Kenya Marine & Fisheries Research**  
**Institute, PO Box 81651**  
**Mombasa**  
**Kenya**  
**Tel: 254 11 475 151-5**  
**Fax: 254 11 475 157**  
**E-mail: ioi-ea@recoscix.org**

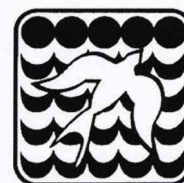
This new member of the IOI family was established in late 1999 after a memorandum of understanding was signed by IOI and the Kenya Marine and Fisheries Research Institute. An Advisory Board has been formed which includes Dr. Nyawira Muthiga, Kenya Wildlife Services; Dr. J. Kazungu, Chief of Research at KMFRI; Professor Ntiba, Lake Victoria Fisheries Organization; and Dr. Julius Francis, Institute of Marine Science in Zanzibar.

An initial program of action has been developed with special focus on long-term mangrove conservation. Cooperation with the other regional organization is being established as well as closer ties with other IOI centers in Africa. According to Dr. Kairu, there is considerable scope for education and training in the region served by the host institute. A project proposal on distance learning modules on marine environmental issues has been prepared in cooperation with IOI – Southern Africa.

### India

**Director: Dr. R. Rajagopalan**  
**Indian Institute of Technology- Madras**  
**ICSR Building, First Floor**  
**Chennai 600 036**  
**India**  
**Tel: 91 44 445 8805**  
**Fax: 91 44 220 0559**  
**E-mail: ioi@vsnl.com**

Since 1998, IOI has functioned as a division of the Foundation for Sustainable Development (India) located on the campus of IIT in Chennai. The Eco-Village Project, funded since 1997 by GTZ (Germany), has been carried out in forty disadvantaged coastal villages in Tamil Nadu. The project focuses on women, since they are under greater pressure. While IOI provides all the supervision, monitoring, informational and technical support, another local NGO (Anawim Trust) actually carries out the work in the villages. Activities have included the formation of self help groups with over 1100 members; the planting of more than 4000 saplings; the distribution of over 200 fuel-efficient stoves; and the building of four rainwater harvesting tanks. With further funding from JFGE (Japan), much of the earlier activities will continue. Additional activities will include awareness programs at the village level, cleaning campaigns, the planting of community gardens on unused government land, and the creation of a cultural troupe consisting mainly of village women to create awareness of water conservation through song and street plays. Vermiculture has been introduced in two villages and the production



**We focus on women  
 in disadvantaged  
 coastal communi-  
 ties for they are un-  
 der the greatest  
 pressure**

**R. Rajagopalan**



...the land, the sea  
and the air are the  
common heritage of  
all nations

Ozaki Yukio  
(1858 – 1954)

## News from Operational Centers

of *Spirulina* continues in several villages.

A project with the Shastri Indo-Canadian Institute continues until December 2000. Project activities included fieldwork for collection of primary data backed up by secondary research from published material. The focus of this research is the local community and its knowledge system with reference to plant genetic resources. A field area in the Eastern Ghats of Tamil Nadu has been chosen for primary data collection. Four issues of the project newsletter "**People, Plants and Resources**" have been published and are available from this center.

A six month project funded by the World Bank will document, collate and critically review the available studies on the private health sector in India. In addition, a new project with the support of the Boston MIT branch of ASHA ( an organization of Indians in the USA), is hoping to bring fundamental changes to the lives of 70 of the most deserving children in the coastal villages by providing health and education needs as well as promoting talents and computer awareness.

This center hopes to co-sponsor a workshop with the Center for Scientific Research in Auroville, India which will explore such topics as afforestation, cost-effective shelters biogas, wind and solar technology and affordable ways to recycle waste-water.

### Japan

**Director: Ms. Masako Bannai Otsuka**  
**INTERCOM Inc.**

# 302 1-26-10 Komaba  
Meguro-ku, Tokyo 153-0041

Japan

Tel: 81 3 5454 0231

Fax: 81 3 5454 0232

E-mail: [intercom@qb3.so-net.ne.jp](mailto:intercom@qb3.so-net.ne.jp)

Welcome Masako Bannai Otsuka as Director replacing Professor Fuse, who will chair the Advisory Board of IOI – Japan. According to Ms. Otsuka, this center maintains contact with past and potential funders such as the Nippon Foundation and is always busy with the translation into Japanese of print and video ma-

terials.

Elisabeth Mann Borgese, Founder and Honorary Chair of IOI, was honoured in Tokyo by the Ozaki Yukio Memorial Foundation when she received the fourth Ozaki Memorial Award in November 1999. According to the selection committee, Professor Borgese was chosen "in recognition of her tireless efforts and inspiring leadership in the vital cause of protecting the world's oceans from pollution, over-exploitation and the dangers of international rivalry for marine resources".

The award is given to an individual who has performed outstanding work on behalf of humankind in keeping with the philosophy of Ozaki Yukio, one of Japan's most distinguished statesmen, who held that the land, the sea and the air are the common heritage of all nations. Ozaki Yukio (1858 – 1954) is respected as a man of principle whose life was given to the cause of democracy and popular government. He shared Professor Borgese's passion for world federation. Past recipients of the award are Kato Shidzue, who pioneered the way for women to enter politics, did much to raise their social status, and was instrumental in inviting Margaret Sanger to Japan to teach Japanese women family planning; Ogata Sadako, the United Nations High Commissioner for Refugees; and Muhammad Yunus, founder of the Grameen Bank, for helping the poorest of the poor to regain self confidence and rebuild their lives.

### Malta

**Director: Prof. Peter Serracino Inglott**  
**The Farmhouse**

**Mediterranean Institute**

**University of Malta, Msida MSD 06**  
**Malta**

**Tel: 356 329 2430**

**Fax: 356 320 717**

**E-mail: [mzammit@arts.um.edu.mt](mailto:mzammit@arts.um.edu.mt)**

Located on the campus of the University of Malta, this center places a renewed emphasis on ocean governance

## News from Operational Centers

issues and studies of the concept of common heritage. A leadership seminar on Mediterranean Basin Co-Development and Security in cooperation with UNEP, UNIDO and the government of Malta is scheduled for early October.

### Pacific Islands

**Director: Dr. G. Robin South**  
**Marine Studies Programme**  
**University of the South Pacific**  
**PO Box 1168, Suva**

**Fiji**

**Tel: 679 301 490/446**

**Fax: 679 305 559/301 490**

**E-mail: south\_r@usp.ac.fj**

**Website: <http://www.usp.ac.fj/marine>**

Effective January 1, 2000 this center changed its name to IOI – Pacific Islands, which reflects more closely our strong affiliation with the Pacific Islands nations, notes Dr. South. Our center has been identified as a node for the Global Coral Reef Monitoring Network and will coordinate the program for Fiji, Samoa, Tonga, Tuvalu, Kirabati, and Nauru. The first task is the preparation of State of the Coral Reef Reports for the participating countries at the upcoming International Coral Reef meeting in Noumea.

Robin South and Joeli Veitayaki have completed a regional review of the impacts of global initiatives in the South Pacific.

Courses offered under the auspices of MSPTRAIN, which incorporates IOI training programmes have for the most part, been re-scheduled, due to recent events within Fiji.

#### **Taxonomy of Soft Corals**

September 6 – 9, 2000

Contact: Sotheeswaran@usp.ac.fj

#### **Certificate in Climate Vulnerability and Adaptation Assessment**

June 26 – October 13, 2000

Consult: [http://www.usp.ac.fj/marine/usp\\_train.htm/](http://www.usp.ac.fj/marine/usp_train.htm/)

### Senegal

**Director: Dr. Diafara Touré**  
**Centre de Recherches**  
**Océanographiques de Dakar-Thiaroye**  
**B.P. 2241, Dakar**

**Senegal**

**Tel: 221 834 8041/638 8524**

**Fax: 221 834 2792**

**E-mail: [dtoure@crodt.isra.sn](mailto:dtoure@crodt.isra.sn)**

A two-week course on coastal zone management issues will be hosted by this center later this month. For more details of this French language course, contact the center. In preparation for this and other training programs, considerable translation work has been carried out. Planning for the 2001 Pacem in Maribus Conference to be held in Dakar is getting underway.

### Southern Africa

**Director: Prof. Derek W. Keats**  
**Botany Department**  
**University of the Western Cape**  
**P. Bag X17, Bellville 7535**

**South Africa**

**Tel: 2721 959 2304**

**Fax: 2721 959 2266**

**E-mail: [dkeats@botunix.uwc.ac.za](mailto:dkeats@botunix.uwc.ac.za)**

**Website: <http://www.ioinst.org/ioisa/>**

Under the leadership of Derek Keats, IOI – Southern Africa has grown rapidly since its creation in 1997. As part of the process of developing a sustainable management plan for the center, five program areas have been identified:

- Mariculture Courses;
- Seaweed Biodiversity focusing on new economic uses as well as research into poorly understood crustose coralline algae;
- Sustainable Livelihoods and Integrated Coastal Management;
- Applications of Computer Networks in education; and
- IOI – SA Online Services, a website development team providing services in order to generate funds for the center.

#### **Seaweed Mariculture**



**IOI – Pacific Islands fulfils its mission through four areas: marine awareness, marine conservation, training, and info technology**

**G. Robin South**



**...we will have to be  
very creative to  
ensure long-term  
sustainability of our  
center...**

**Derek W. Keats**

## News from Operational Centers

The seaweed mariculture programs were the first IOI – Southern Africa sponsored activities. A series of courses on Seaweed Mariculture for Community Development have been well received and the December 1999 course brought together twenty people from the coastal communities of sub-Saharan Africa. Results generated by ongoing mariculture research are not only for publication, according to Derek, but will enhance IOI's community development projects.

### Seaweed Biodiversity

Investigations of possible biomedical activities of certain red algae found along the coast are ongoing, as are new studies on crustose coralline algal biodiversity and systematics especially along the eastern and southern coastlines.

### Sustainable Livelihoods

A long term research project involving literature searches and questionnaire design has been ongoing in the St. Helena's Bay area.

### Computer Networks in Education

In March the center initiated a new distance learning project for coastal managers. SA-ISISlearn, is a learning resource that provides web-based learning materials and courses which are developed within the framework of the recent legislation on higher education. These courses are intended for university students and the general public. The first module of SA-ISISlearn is a course entitled *Introduction to Integrated Coastal Management* which is offered from July 24 to October 30, 2000. To register or for more information consult the course website:

<http://sa-isislearn.uwc.ac.za/>

### IOI – SA Online

Staff have recently developed a website for the Coastal Management Office of the South African Department of Environmental Affairs and Tourism. In December 1999 the South African Cabi-

net approved the White Paper for Sustainable Development which marks the first national policy for coastal management in the country. The website is a component of this new policy, a copy of which is available from the website.

In addition to the information about the Coastal Management Office, the site provides helpful tips on management and decision-support tools, as well as CoastCARE, a public awareness program. CoastCARE has produced a number of colorful and informative brochures and booklets which address coastal issues. A "What's New" section highlights new national initiatives in coastal and environmental management. The "Focus On" section deals with specific activities, such as the Blue Flag campaign, an incentive scheme that encourages local coastal authorities to manage their beaches in an environmentally friendly way. The "Did you know" section contains brief facts and frequently asked questions that are illustrated and animated.

The e-Journal Contact Update, which aims to "Take Parliament to the People and the People to Parliament", described this site as "a valuable resource for those wanting to keep in touch with coastal issues in South Africa". Check out this new website at:

<http://www.environment.gov.za/sacoast/>

## New Affiliates

During 1999 the following new IOI affiliates were established:

**IOI – Ukraine Affiliate**  
**Dr. Victoria N. Radchenko**  
**Institute of Biology of Southern Seas**  
**Nakhimov Av 3/2**  
**Sevastapol 99 011, Ukraine**  
**E-mail: radalpin@ibss.iuf.net**

**IOI – Russia Affiliate**  
**Dr. Valerie Papounov**  
**Physical Sector, IORAN**  
**36 Nakhimovsky Lane**  
**117851 Moscow, Russia**  
**E-mail: ioruss@caravan.ru**

### Arvid Pardo Award

The Arvid Pardo Award for Research on the Concept of the Common Heritage was announced in Malta in January 2000.

This award was created by the Institute in 1992 and first awarded in 1997. Through this award IOI wishes to pay tribute to Arvid Pardo, the father of the contemporary Law of the Sea, the inspirer of the *Pacem in Maribus* Conferences and the International Ocean Institute.

The purpose of the award is to promote research, studies and the wider dissemination of the concept of Common Heritage. The research may be focused on one specific field but multidisciplinary studies will be encouraged. The award is granted for studies of a high scientific level with practical significance.

Entries should be submitted to IOI Headquarters by the end of September 2000. The award will consist of the publication of the study, and a prize of five thousand dollars.

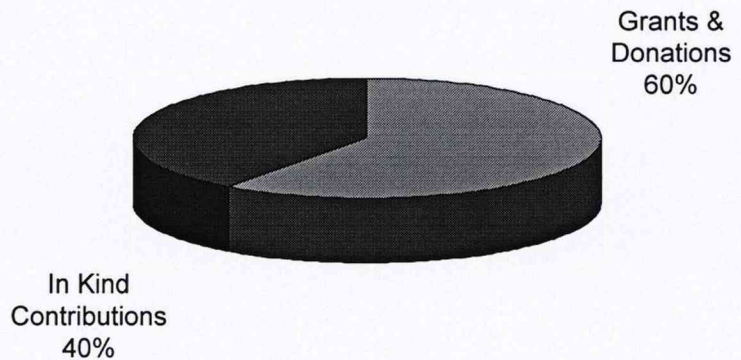
### Danielle de St. Jorre Scholarship

Danielle de St. Jorre was a member of the Governing Board of IOI and the Minister of Foreign Affairs of the Seychelles at the time of her death in 1997. To honour her memory, a scholarship has been created which will be awarded annually to a woman from a small island developing country who is pursuing studies in marine affairs.

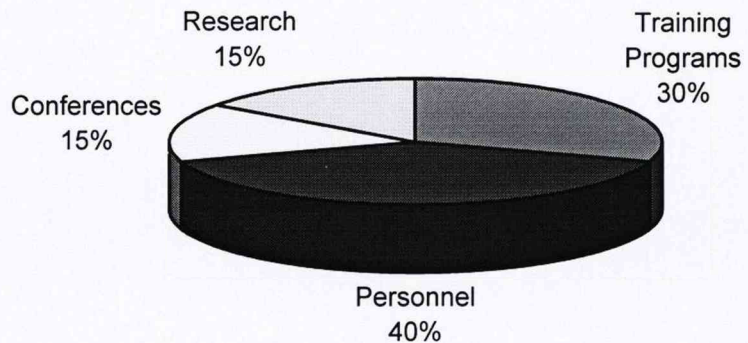
The first recipient is Caroline Houareau, a barrister and attorney with the Supreme Court of the Seychelles. Ms. Houareau is attending the ten week course in Halifax from May 29 to August 4, 2000.

### Focus on Finances

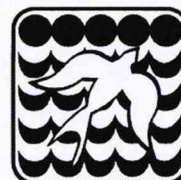
**Total Income for 1999**  
**\$US1,906,624.00**



**Total Expenditures for 1999**  
**US\$ 1,806,991.00**



This information is based on the audited reports and financial statements prepared by Deloitte & Touche on May 26, 2000.



# ◆ Across the Oceans ◆



Newsletter of the International Ocean Institute

July 2000



## New Project

Establishing an IOI virtual university is extremely ambitious, challenging and innovative according to Professor Elisabeth Mann Borgese, who introduced a concept paper on the subject to the November 1999 meeting of the Governing Board, following the original proposal made by Dr. Gunnar Kullenberg. A report presented at the June 2000 meeting of the Executive Committee outlined how to implement such a project which may have enormous impact on IOI's education and training activities in all eleven operational centers. Members of the working group include Dr. Kullenberg, Professor Borgese, Dr. Yankov, Professor Fuse and directors of the operational centers in India, South Africa and Fiji.

This initiative responds to a number of challenges and new opportunities:

- the interdisciplinary character of contemporary knowledge which transcends the departmental divisions of traditional universities;
- the globalization of the communications revolution;
- the financial constraints on students, especially those in developing countries; and
- the financial constraints on academic institutions around the world resulting in downsizing and privatization of universities.

It is hoped that this initiative will help the IOI to continue to respond to the training and educational needs of people, especially those in developing countries who are working in ocean sectors.

## New People

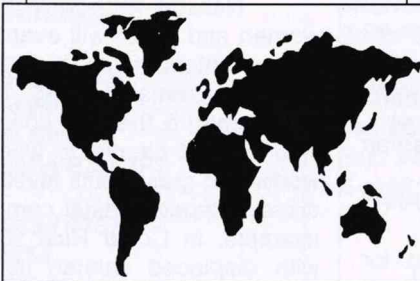
Professor Ruud Lubbers, former Prime Minister of the Netherlands, and Professor Federico Mayor, former Director-General of UNESCO, have accepted IOI's invitation to join the Governing Board effective June 2000.

## Pacem in Maribus 2000 The European Challenge

This annual conference will be held from December 3 – 6, 2000 at the International Tribunal for the Law of the Sea, in Hamburg, Germany.

For further details, contact:

Headquarters in Malta  
E-mail: [ioimla@kemmnet.net.mt](mailto:ioimla@kemmnet.net.mt)  
or check IOI's website:  
<http://www.ioinst.org/foisa/>



## Members of the Governing Board

- Salvino Busuttil  
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- Federico Mayor  
Spain
- Jorge Mora Alfaro  
Costa Rica
- Alassane Dialy Ndiaye  
Senegal
- R. Natarajan  
India
- Christopher Pinto  
Sri Lanka
- Bhagwat Singh  
India
- Esekia Solofa  
Fiji
- Yoshio Suzuki  
Japan
- Anton Vratuša  
Slovenia
- Layashi Yaker  
Algeria

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- Alexander Yankov  
Vice President  
Bulgaria
- Anita Coady  
Treasurer  
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- Tsutomu Fuse  
Chair, Planning Council  
Japan
- Gunnar Kullenberg  
Secretary/Executive Director  
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## Headquarters

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Website: [http:// www.ioinst.org/ioisa/](http://www.ioinst.org/ioisa/)

Dr. Gunnar Kullenberg and the staff in Malta play a pivotal part in the effective functioning of the expanding network of operational centers. As Secretary of the Governing Board Dr. Kullenberg reports the following decisions from the 1999 annual meeting in Fiji:

- approved 2000 budget of US\$ three million;
- reviewed the workplans from the 11 operational centers;
- introduced new programs to focus on women and youth;
- approved the Danielle de St. Jorre Scholarship;
- endorsed the proposal to establish an IOI Virtual University; and
- endorsed projects to honour Arvid Pardo.

In addition to the preparation for and participation in the Fiji meetings and PIM conference, the Executive Director represented IOI at a workshop on Coastal Megacities in Hangzhou, China in September and a seminar on Shipping and Pollution in Malacca in October 1999. He visited the IOI Operational Centers in Japan and China. In November he visited UNEP's Regional Office in Bangkok and in December he visited IMO in London.

During the coming year, IOI will continue to work with institutions and individuals who share our mission and aspirations, notes Dr. Kullenberg. A new memorandum of understanding has been signed to continue IOI's role in the development of the *UNEP/GPA News Forum*, an online news and information service that was launched in September 1999. Visit the site at: <http://gpanews.unep.org>. Phase two of a project on risk assessment in cooperation with Swiss Reinsurance Company of Zurich is scheduled to get underway later this year. Phase one

of this project culminated with a workshop on Risk Assessment and Disaster Mitigation held at the Bermuda Biological Station for Research on February 14 – 15 2000. The workshop provided an opportunity for experts from the insurance industry to meet marine scientists to discuss risk management issues of common interest in order to identify solutions and increase awareness, as well as to prepare material for training modules directed at specific target groups. Visit IOI's website [www.ioinst.org/ioisa](http://www.ioinst.org/ioisa) for a summary of the workshop. While both of these projects have been under the leadership of IOI – Canada, they have involved other centers as well, notes Dr. Kullenberg. IOI has recently signed a partnership agreement with UNESCO to help promote the year 2000 as the International Year for the Culture of Peace.

Network-wide projects focusing on women and youth will eventually involve all our centers, notes Dr. Kullenberg. This year approximately US\$ 150,000 from the Women & the Sea donation will provide support directly to women who are working at grass roots levels in poor and disadvantaged coastal communities. For example, in Costa Rica IOI is working with displaced women in the Gulf of Nicoya area, whereas in India funds have been designated to install toilet facilities in several coastal villages in the Tuticorn district of Tamil Nadu. In Kenya IOI is working with women to promote mariculture of seaweed near Mombasa, and in Southern Africa IOI has already been instrumental in the formation of a seaweed mariculture company operated by women in St. Helena's Bay area. In Fiji, a three year project focusing on women and fisheries will conduct special training courses as well as a regional conference on the role of women in the marine sector. In Canada, scholarships will be provided to women who wish to attend the annual summer training program at Dalhousie University. In Senegal the IOI is working to improve conditions of women in Kayar who work in seafood processing.




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**Our system-wide  
projects enhance  
cohesion and  
cooperation  
within our  
organization**

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**G. Kullenberg**

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**IOI Virtual  
University will  
be a soft  
structure & will  
be extremely  
flexible**

**Elisabeth Mann  
Borgese**

## News from Operational Centers

### Black Sea

**Director: Dr. Alexandru S. Bologa**  
**National Institute for Marine Research  
 & Development, Blvd. Mamaia 300,**  
**RO-8700 Constanta 3**  
**Romania**  
**Tel: 40 41 643 288**  
**Fax: 40 41 831 274**  
**E-mail: abologa@alpha.rmri.ro**

Proceedings of the September 1999 Black Sea Leadership Seminar, edited by Professors Bologa and R.H. Charlier, are now available. In cooperation with MEDCOAST/METU Turkey, the 5th International Training Program on Beach Management in the Mediterranean and the Black Sea will be held in July. Contact Dr. Bologa for more details.

### Canada

**Director: Mr. Robert Race**  
**Dalhousie University**  
**1226 LeMarchant Street**  
**Halifax, Nova Scotia B3H 3P7**  
**Canada**  
**Tel: 1 902 494 6623 / 1737**  
**Fax: 1 902 494 2034**  
**E-mail: ioihfx@dal.ca**  
**Website: <http://www.dal.ca/ioihfx/>**

*The United Nations Convention on the Law of the Sea: Its Implementation and Agenda 21*, a ten-week training program for 18 participants, was inaugurated on May 29. In its 20th year, the course is directed by Dr. Noel Brown, former head of UNEP's Regional Office in New York. Guest lecturers will include Ambassador Neroni Slade from Samoa.

Building on a 1998 seminar organized in cooperation with IUCN for the benefit of delegates to the International Seabed Authority in Kingston, Jamaica, IOI – Canada sponsored a seminar March 24 – 26, 2000 attended by thirty-four delegates. The purpose of the workshop was not to discuss manganese nodules but rather to inform delegates of new emerging resources such as polymetallic crusts and sulphides, methane hydrates and genetic resources co-habiting in these areas of the deep seabed. At pre-

sent, these new scientific and technological developments are taking place outside, and quite independently of, the International Seabed Authority.

IOI – Canada's Advisory Board, chaired by the Hon. Allan J. MacEachen, met on March 10 and June 20. The meetings approved merger discussions between IOI – Canada and the Oceans Institute of Canada. A committee was established to plan a workshop for senior Canadian government officials in departments concerned with oceans, such as the Department of Fisheries and Oceans and the Department of the Environment.

### China

**Director: Prof. Hou Wenfeng**  
**National Marine Data &  
 Information Service**  
**State Oceanic Administration**  
**93 Liuwei Road, Hedong District**  
**Tianjin 300171, P.R. of China**  
**Tel: 86 22 2430 1292**  
**Fax: 86 22 2430 1292**  
**E-mail: [houwf@netra.nmdis.gov.cn](mailto:houwf@netra.nmdis.gov.cn)**  
**or [qinli@public1.tpt.tj.cn](mailto:qinli@public1.tpt.tj.cn)**

The following publications are available from this center:

*Summary Report on Training Course on Integrated Coastal Zone Management* held September 17 – 26, 1999 (14pp.);  
*Red Tide in China's Huanhai & Bohai Sea Area* 1999 (14pp.); and  
*Important Events on Implementing the GPA for Protection of the Marine Environment from Land Based Activities* 1999 (8pp.).

The five year memorandum of understanding has been renewed by IOI and SOA. Translation into Chinese of IOI publications such as the Annual Report and this newsletter is an ongoing activity. A refresher course for alumni will be held later this year.

Members of the IOI – China Advisory Committee, chaired by Chen Bing-Xin, former Deputy Administrator of SOA, are working to establish a distance learning system to amplify and diversify future course offerings.

## News from Operational Centers

### Costa Rica

**Director: Dr. Alejandro Gutiérrez**  
**Universidad Nacional**  
**PO Box 86, Heredia 3000**  
**Costa Rica**  
**Tel: 506 277 3594**  
**Fax: 506 260 2546**  
**E-mail: gechever@una.ac.cr**

On March 17 – 18, this center hosted a regional seminar entitled "Maritime Delimitation in Central America and the Caribbean" which examined a boundary dispute between Honduras and Nicaragua. According to Professor Gutiérrez, while the dispute centers around the question of ownership of San Andrea's island, the meeting provided an opportunity for all legal and environmental issues to be considered with a view to settling this long-standing dispute. Following an agreement, signed in January by IDRC (Canada) and this center, staff are working in Spanish speaking areas of the Caribbean to heighten awareness of best practices in coastal zone management. The center is carrying out considerable reconstruction work under the auspices of NOAA/OAS.

### Eastern Africa

**Director: Dr. K. Kairu**  
**Kenya Marine & Fisheries Research Institute, PO Box 81651**  
**Mombasa**  
**Kenya**  
**Tel: 254 11 475 151-5**  
**Fax: 254 11 475 157**  
**E-mail: ioi-ea@recoscix.org**

This new member of the IOI family was established in late 1999 after a memorandum of understanding was signed by IOI and the Kenya Marine and Fisheries Research Institute. An Advisory Board has been formed which includes Dr. Nyawira Muthiga, Kenya Wildlife Services; Dr. J. Kazungu, Chief of Research at KMFRI; Professor Ntiba, Lake Victoria Fisheries Organization; and Dr. Julius Francis, Institute of Marine Science in Zanzibar.

An initial program of action has been developed with special focus on

long-term mangrove conservation. Cooperation with the other regional organization is being established as well as closer ties with other IOI centers in Africa. According to Dr. Kairu, there is considerable scope for education and training in the region served by the host institute. A project proposal on distance learning modules on marine environmental issues has been prepared in cooperation with IOI – Southern Africa.

### India

**Director: Dr. R. Rajagopalan**  
**Indian Institute of Technology-Madras**  
**ICSR Building, First Floor**  
**Chennai 600 036**  
**India**  
**Tel: 91 44 445 8805**  
**Fax: 91 44 220 0559**  
**E-mail: ioi@vsnl.com**

Since 1998, IOI has functioned as a division of the Foundation for Sustainable Development (India) located on the campus of IIT in Chennai. The Eco-Village Project, funded since 1997 by GTZ (Germany), has been carried out in forty disadvantaged coastal villages in Tamil Nadu. The project focuses on women, since they are under greater pressure. While IOI provides all the supervision, monitoring, informational and technical support, another local NGO (Anawim Trust) actually carries out the work in the villages. Activities have included the formation of self help groups with over 1100 members; the planting of more than 4000 saplings; the distribution of over 200 fuel-efficient stoves; and the building of four rainwater harvesting tanks. With further funding from JFGE (Japan), much of the earlier activities will continue. Additional activities will include awareness programs at the village level, cleaning campaigns, the planting of community gardens on unused government land, and the creation of a cultural troupe consisting mainly of village women to create awareness of water conservation through song and street plays. Vermiculture has been introduced in two villages and the production of *Spirulina* continues in several villages.




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**We focus on women  
 in disadvantaged  
 coastal communi-  
 ties for they are un-  
 der the greatest  
 pressure**

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**R. Rajagopalan**

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...the land, the sea  
and the air are the  
common heritage of  
all nations

Ozaki Yukio  
(1858 – 1954)

## News from Operational Centers

A project with the Shastri Indo-Canadian Institute continues until December 2000. Project activities included fieldwork for collection of primary data backed up by secondary research from published material. The focus of this research is the local community and its knowledge system with reference to plant genetic resources. A field area in the Eastern Ghats of Tamil Nadu has been chosen for primary data collection. Four issues of the project newsletter "**People, Plants and Resources**" have been published and are available from this center.

A six month project funded by the World Bank will document, collate and critically review the available studies on the private health sector in India. In addition, a new project with the support of the Boston MIT branch of ASHA (an organization of Indians in the USA), is hoping to bring fundamental changes to the lives of 70 of the most deserving children in the coastal villages by providing health and education needs as well as promoting talents and computer awareness.

This center hopes to co-sponsor a workshop with the Center for Scientific Research in Auroville, India which will explore such topics as afforestation, cost-effective shelters biogas, wind and solar technology and affordable ways to recycle waste-water.

### Japan

**Director: Ms. Masako Bannai Otsuka**  
**INTERCOM Inc.**  
# 302 1-26-10 Komaba  
Meguro-ku, Tokyo 153-0041  
Japan  
Tel: 81 3 5454 0231  
Fax: 81 3 5454 0232  
E-mail: [intercom@qb3.so-net.ne.jp](mailto:intercom@qb3.so-net.ne.jp)

Welcome Masako Bannai Otsuka as Director replacing Professor Fuse, who will chair the Advisory Board of IOI – Japan. According to Ms. Otsuka, this center maintains contact with past and potential funders such as the Nippon Foundation and is always busy with the translation into Japanese of print and video materials.

Elisabeth Mann Borgese, Founder

and Honorary Chair of IOI, was honoured in Tokyo by the Ozaki Yukio Memorial Foundation when she received the fourth Ozaki Memorial Award in November 1999. According to the selection committee, Professor Borgese was chosen "in recognition of her tireless efforts and inspiring leadership in the vital cause of protecting the world's oceans from pollution, over-exploitation and the dangers of international rivalry for marine resources".

The award is given to an individual who has performed outstanding work on behalf of humankind in keeping with the philosophy of Ozaki Yukio, one of Japan's most distinguished statesmen, who held that the land, the sea and the air are the common heritage of all nations. Ozaki Yukio (1858 – 1954) is respected as a man of principle whose life was given to the cause of democracy and popular government. He shared Professor Borgese's passion for world federation. Past recipients of the award are Katoh Shidzue, who pioneered the way for women to enter politics, did much to raise their social status, and was instrumental in inviting Margaret Sanger to Japan to teach Japanese women family planning; Ogata Sadako, the United Nations High Commissioner for Refugees; and Muhammad Yunus, founder of the Grameen Bank, for helping the poorest of the poor to regain self confidence and rebuild their lives.

### Malta

**Director: Prof. Peter Serracino Inglott**  
**The Farmhouse**  
**Mediterranean Institute**  
**University of Malta, Msida MSD 06**  
Malta  
Tel: 356 329 2430  
Fax: 356 320 717  
E-mail: [mzammit@arts.um.edu.mt](mailto:mzammit@arts.um.edu.mt)

Located on the campus of the University of Malta, this center places a renewed emphasis on ocean governance

## News from Operational Centers

issues and studies of the concept of common heritage. A leadership seminar on Mediterranean Basin Co-development and Security in cooperation with UNEP, UNIDO and the government of Malta is scheduled for early October.

### Pacific Islands

**Director: Dr. G. Robin South**  
**Marine Studies Programme**  
**University of the South Pacific**  
**PO Box 1168, Suva**  
**Fiji**  
**Tel: 679 301 490/446**  
**Fax: 679 305 559/301 490**  
**E-mail: south\_r@usp.ac.fj**  
**Website: <http://www.usp.ac.fj/marine>**

Effective January 1, 2000 this center changed its name to IOI – Pacific Islands, which reflects more closely our strong affiliation with the Pacific Islands nations, notes Dr. South. Our center has been identified as a node for the Global Coral Reef Monitoring Network and will coordinate the program for Fiji, Samoa, Tonga, Tuvalu, Kirabati, and Nauru. The first task is the preparation of State of the Coral Reef Reports for the participating countries at the upcoming International Coral Reef meeting in Noumea. Robin South and Joeli Veitayaki have completed a regional review of the impacts of global initiatives in the South Pacific.

Courses offered under the auspices of MSPTRAIN, which incorporates IOI training programmes have for the most part, been re-scheduled, due to recent events within Fiji.

#### **Taxonomy of Soft Corals**

September 6 – 9, 2000  
 Contact: Sotheeswaran@usp.ac.fj

#### **Certificate in Climate Vulnerability and Adaptation Assessment**

June 26 – October 13, 2000  
 Consult: [http://www.usp.ac.fj/marine/usp\\_train.html](http://www.usp.ac.fj/marine/usp_train.html)

### Senegal

**Director: Dr. Diafara Touré**  
**Centre de Recherches**  
**Océanographiques de Dakar-Thiaroye**  
**B.P. 2241, Dakar**  
**Senegal**  
**Tel: 221 834 8041/638 8524**  
**Fax: 221 834 2792**  
**E-mail: dtoure@crodt.isra.sn**

A two-week course on coastal zone management issues will be hosted by this center later this month. For more details of this French language course, contact the center. In preparation for this and other training programs, considerable translation work has been carried out. Planning for the 2001 Pacem in Maribus Conference to be held in Dakar is getting underway.

### Southern Africa

**Director: Prof. Derek W. Keats**  
**Botany Department**  
**University of the Western Cape**  
**P. Bag X17, Bellville 7535**  
**South Africa**  
**Tel: 2721 959 2304**  
**Fax: 2721 959 2266**  
**E-mail: dkeats@botunix.uwc.ac.za**  
**Website: <http://www.ioinst.org/ioisa/>**

Under the leadership of Derek Keats, IOI – Southern Africa has grown rapidly since its creation in 1997. As part of the process of developing a sustainable management plan for the center, five program areas have been identified:

- Mariculture Courses;
- Seaweed Biodiversity focusing on new economic uses as well as research into poorly understood crustose coralline algae;
- Sustainable Livelihoods and Integrated Coastal Management;
- Applications of Computer Networks in education; and
- IOI – SA Online Services, a website development team providing services in order to generate funds for the center.

#### **Seaweed Mariculture**



**IOI – Pacific Islands fulfils its mission through four areas: marine awareness, marine conservation, training, and info technology**

**G. Robin South**



...we will have to be  
very creative to  
ensure long-term  
sustainability of our  
center...

Derek W. Keats

## News from Operational Centers

The seaweed mariculture programs were the first IOI – Southern Africa sponsored activities. A series of courses on Seaweed Mariculture for Community Development have been well received and the December 1999 course brought together twenty people from the coastal communities of sub-Saharan Africa. Results generated by ongoing mariculture research are not only for publication, according to Derek, but will enhance IOI's community development projects.

### Seaweed Biodiversity

Investigations of possible biomedical activities of certain red algae found along the coast are ongoing, as are new studies on crustose coralline algal biodiversity and systematics especially along the eastern and southern coastlines.

### Sustainable Livelihoods

A long term research project involving literature searches and questionnaire design has been ongoing in the St. Helena's Bay area.

### Computer Networks in Education

In March the center initiated a new distance learning project for coastal managers. SA-ISISlearn, is a learning resource that provides web-based learning materials and courses which are developed within the framework of the recent legislation on higher education. These courses are intended for university students and the general public. The first module of SA-ISISlearn is a course entitled *Introduction to Integrated Coastal Management* which is offered from July 24 to October 30, 2000. To register or for more information consult the course website:

<http://sa-isislearn.uwc.ac.za/>

### IOI – SA Online

Staff have recently developed a website for the Coastal Management Office of the South African Department of Environmental Affairs and Tourism. In December 1999 the South African Cabinet approved the White Paper for Sustainable Development which marks the first national policy for coastal man-

agement in the country. The website is a component of this new policy, a copy of which is available from the website.

In addition to the information about the Coastal Management Office, the site provides helpful tips on management and decision-support tools, as well as CoastCARE, a public awareness program. CoastCARE has produced a number of colorful and informative brochures and booklets which address coastal issues. A "What's New" section highlights new national initiatives in coastal and environmental management. The "Focus On" section deals with specific activities, such as the Blue Flag campaign, an incentive scheme that encourages local coastal authorities to manage their beaches in an environmentally friendly way. The "Did you know" section contains brief facts and frequently asked questions that are illustrated and animated.

The e-Journal Contact Update, which aims to "Take Parliament to the People and the People to Parliament", described this site as "a valuable resource for those wanting to keep in touch with coastal issues in South Africa". Check out this new website at:

<http://www.environment.gov.za/sacoast/>

## New Affiliates

During 1999 the following new IOI affiliates were established:

### IOI – Ukraine Affiliate

**Dr. Victoria N. Radchenko**  
Institute of Biology of Southern Seas  
Nakhimov Av 3/2  
Sevastapol 99 011, Ukraine  
E-mail: [radalpin@ibss.iuf.net](mailto:radalpin@ibss.iuf.net)

### IOI – Russia Affiliate

**Dr. Valerie Papounov**  
Physical Sector, IORAN  
36 Nakhimovsky Lane  
117851 Moscow, Russia  
E-mail: [ioiruss@caravan.ru](mailto:ioiruss@caravan.ru)

### Arvid Pardo Award

The Arvid Pardo Award for Research on the Concept of the Common Heritage was announced in Malta in January 2000.

This award was created by the Institute in 1992 and first awarded in 1997. Through this award IOI wishes to pay tribute to Arvid Pardo, the father of the contemporary Law of the Sea, the inspirer of the *Pacem in Maribus* Conferences and the International Ocean Institute.

The purpose of the award is to promote research, studies and the wider dissemination of the concept of Common Heritage. The research may be focused on one specific field but multidisciplinary studies will be encouraged. The award is granted for studies of a high scientific level with practical significance.

Entries should be submitted to IOI Headquarters by the end of September 2000. The award will consist of the publication of the study, and a prize of five thousand dollars.

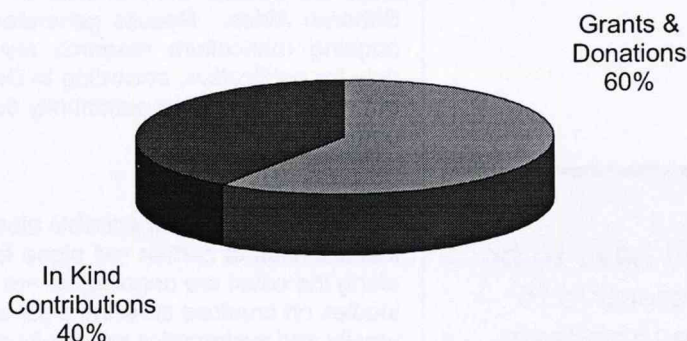
### Danielle de St. Jorre Scholarship

Danielle de St. Jorre was a member of the Governing Board of IOI and the Minister of Foreign Affairs of the Seychelles at the time of her death in 1997. To honour her memory, a scholarship has been created which will be awarded annually to a woman from a small island developing country who is pursuing studies in marine affairs.

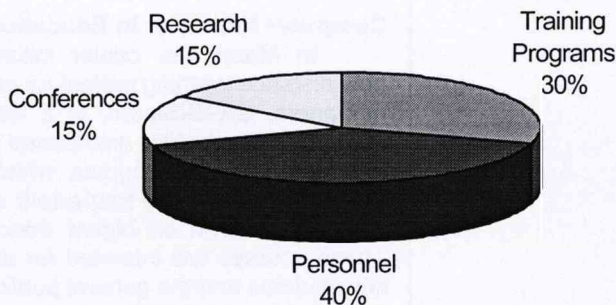
The first recipient is Caroline Houareau, a barrister and attorney with the Supreme Court of the Seychelles. Ms. Houareau is attending the ten week course in Halifax from May 29 to August 4, 2000.

### Focus on Finances

**Total Income for 1999**  
**\$US1,906,624.00**



**Total Expenditures for 1999**  
**US\$ 1,806,991.00**



This information is based on the audited reports and financial statements prepared by Deloitte & Touche on May 26, 2000.



# ◊ Across the Oceans ◊



Newsletter of the International Ocean Institute

February 2001



## IOI Virtual University

At their December 1st meeting in Hamburg, the Governing Board endorsed the report of the working group, thus formally establishing IOI-VU. Members of the working group include Dr. Kullenberg, Professor Borgese, Dr. Yankov, Professor Fuse and directors of the operational centers in India, South Africa and Fiji. Highlights of the fifty page document include plans for the development of curriculum, with special emphasis placed on the preparation of several core courses to be designed and adapted by existing operational centers. Canada will lead the development of the first core course on "Ocean Governance Issues"; while South Africa will take the lead in developing a second course on "Integrated Coastal Management"; and India will lead a third course on "Coastal Community Development". Other core courses will be undertaken by China and Costa Rica towards the end of this year.

Dr. Kullenberg has accepted the position of Interim Rector, effective June 2001 and it is hoped the first students will register by January 2002. "The coming months provide great challenges and opportunities for IOI to establish an internationally recognized, interdisciplinary program of study which will not only serve to facilitate the integration of ocean knowledge, but will provide access to students from anywhere in the world," notes Dr. Kullenberg.

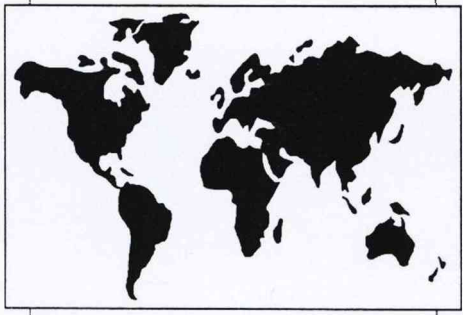
## New People

Dr. Tom Traves, President of Dalhousie University joined the Board effective January 2001. President Joseph Warioba acknowledged with gratitude the service of retiring members : Fujiko Hara (Japan), Jorge M. Alfaro (Costa Rica), Alasane D. Ndiaye (Senegal). Ruud Lubers announced that he has accepted the position of UN High Commissioner for Refugees. There are presently three openings which will be filled during the coming year.

## Pacem in Maribus 2000 The European Challenge December 3 - 6

This conference brought together over 150 people from forty countries. The Proceedings of the meetings will be available by mid-2001. To read the Conference Recommendations just check the IOI website at :

<http://www.ioinst.org/loisa/>



## Members of the Governing Board

- Salvino Busuttill  
Malta
- Nikolaus Gelpke  
Switzerland
- Peter Serracino Inglott  
Malta
- Federico Mayor  
Spain
- R. Natarajan  
India
- Christopher Pinto  
Sri Lanka
- Bhagwat Singh  
India
- Esekia Solofa  
Fiji
- Yoshio Suzuki  
Japan
- Tom Traves  
Canada
- Anton Vratuša  
Slovenia
- Layashi Yaker  
Algeria

## Members of the Executive Committee

- Elisabeth Mann Borgese  
Founder  
Canada
- Joseph Warioba  
President  
Tanzania
- Alexander Yankov  
Vice President  
Bulgaria
- Anita Coady  
Treasurer  
Canada
- Tsutomu Fuse  
Chair, Planning Council  
Japan
- Gunnar Kullenberg  
Secretary/Executive Director  
Sweden

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## Headquarters

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Malta  
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Website: [http:// www.ioinst.org/ioisa/](http://www.ioinst.org/ioisa/)

As Secretary of the Governing Board Dr. Kullenberg reports that the following decisions were taken by the 38th annual meeting held December 1 & 2 in Hamburg, Germany:

- approved 2001 budget of US\$ 2.7 million.
- reviewed the workplans submitted by eleven operational centers and two affiliates.
- acknowledged the establishment of new centers in Nigeria and Thailand and an affiliate in Turkestan.
- appointed Vladimir Ryabinin as Resident Director of IOI in Malta effective June 01 2001.
- extended the post of Gunnar Kullenberg as Executive Director with special responsibility for IOI-VU effective June 2001-June 2003.
- reviewed and endorsed the report of the working group to establish IOI Virtual University.
- accepted the revised statutes of the Arvid Pardo Award.

During the coming year, IOI will continue to work with institutions and individuals who share our mission and aspirations, notes Dr. Kullenberg. We are grateful for support and advice of our partners in the Virtual University - the United Nations University, the World Maritime University, the UN Peace University and the Intergovernmental Oceanographic Commission of UNESCO. Our network-wide projects continue to grow and include activities in the area of Risk Management as well as an on-line News Forum and diverse activities which focus on women and children in the coastal areas.

A two-day meeting of the Planning Council reviewed the budgets and workplans of centers and affiliates.

## Coral Reef Initiative

Robin South represented the IOI at the International Coral Reef Initiative, (ICRI) Council meeting held in Noumea, New Caledonia in May 2000 and a subsequent meeting, the 9th International Coral Reef Symposium held in Bali, Indonesia, October 22-27, 2000.

Robin reports that the ICRI was launched by the USA at the Small Island Developing States (SIDS) Conference held in Barbados in 1994. The Council, which is the ICRI governing body, was established in 1995 and has endorsed and adopted the Global Coral Reef Monitoring Network originally established by UNEP and IOC and co-ordinated by the Australian Institute of Marine Science in Townsville. IOI - Pacific Islands is one of the "nodes" established by the Global Coral Reef Monitoring Network. The ICRI Secretariat will be located in Manila, Philippines for 2001-2003 and the next meeting will be in Cebu in 2001.

The membership of the ICRI CPC (52 were present in Bali, notes Robin) includes governments (USA, Sweden, France, Australia, Japan, Philippines); ngo's (WWF, IUCN, ICLARM); UN agencies (UNEP, UNDP) and donors (such as World Bank, Australia, France).

Given the fact that seven centers and affiliates are located in coral reef areas, it was Professor South's wish that IOI continue to participate in ICRI - CPC meetings. Accordingly, when invited to join, IOI accepted with appreciation.

This will build further on our desire to work with other organizations notes Dr. Kullenberg. As a member, IOI will participate in the increasingly important ICRI process which involves 1500 delegates from over 100 countries. What do you think? Want to know more? Get in touch with Professor South at IOI - Pacific Islands or Dr. Kullenberg at IOI - headquarters in Malta.




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**IOI  
provides a  
flexible  
mechanism  
with  
global coverage**

**G. Kullenberg**

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## News from Operational Centers

### Black Sea

**Director: Dr. Alexandru S. Bologa**  
**National Institute for Marine Research & Development, Blvd. Mamaia 300,**  
**RO-8700 Constanta 3**  
**Romania**  
**Tel: 40 41 643 288**  
**Fax: 40 41 831 274**  
**E-mail: abologa@alpha.rmri.ro**

Professor Bologa is preparing for a June 2001 symposium entitled "Sustainability and Conscious Development and Team Input : A Multiprofessional Approach". He will present a paper at the XXIst International Congress on the History of Science to be held in Mexico City, July 8-14, 2001.

### Canada

**Director: Mr. Robert Race**  
**Dalhousie University**  
**1226 LeMarchant Street**  
**Halifax, Nova Scotia**  
**Canada B3H 3P7**  
**Tel: 1 902 494 6623 / 1737**  
**Fax: 1 902 494 2034**  
**E-mail: ioihfx@dal.ca**  
**Website: <http://www.dal.ca/ioihfx/>**

*The United Nations Convention on the Law of the Sea: Its Implementation and Agenda 21*, a ten-week training program directed by Dr. Noel Brown, former head of UNEP's Regional Office in New York, begins May 28. Building on previous leadership seminars for the delegates to the International Seabed Authority in Kingston, Jamaica, IOI - Canada will sponsor a week-long seminar in March, and, will launch a new course on Risk Management co-sponsored by Petrobras, in Brazil. The annual seminar on Law of the Sea at the World Maritime University in Malmo, Sweden is scheduled for August.

Volumes 14 and 15 of **Ocean Yearbook** have been released and editorial work is proceeding on Volume 16. Course development work for the first online module of the Virtual Univer-

sity will be a major priority for this center as well as continuing leadership of the Risk Assessment Project. The expiration of the agreement between IOI and UNEP Global Program of Action Coordination Office, has resulted in the commitment by IOI headquarters to continue funding this project with ongoing leadership from IOI - Canada. "The challenge will be to retain our audience's interest by ensuring that the web site is renewed frequently with sufficient articles", notes Bob.

IOI - Canada's Advisory Board, chaired by the Hon. Allan J. MacEachen, meets on February 16th to finalize plans for the Ottawa conference to be co-sponsored by the Canadian Institute of International Law.

### China

**Director: Prof. Hou Wenfeng**  
**National Marine Data & Information Service**  
**State Oceanic Administration**  
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**or [qinli@public1.tpt.tj.cn](mailto:qinli@public1.tpt.tj.cn)**

During the coming year IOI - China will focus their efforts on the development of a core course for the IOI-VU project. "The course will draw on the extensive experiences of our staff in the area of coastal zone management", notes Professor Hou. The center intends to strengthen contacts with alumni in order to more effectively assess future training needs, which hopefully, will be met using the IOI-VU."

The center welcomes the opportunity to work with Professor Fuse, to lay the groundwork for a joint research project on the Environmental Quality of the Yellow Sea and the East China Sea. "This is important for both our centers and will take considerable time to complete" adds Professor Hou.



IOI  
 is  
 the  
 future of  
 the oceans

G. Kullenberg

## News from Operational Centers

### Costa Rica

**Director: Dr. Alejandro Gutiérrez**  
**Universidad Nacional**  
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"Building on the ten-day July 2000 visit of three Costa Rican fishers to Himi City, I look forward to welcoming our Japanese visitors to Venado Island in order to discuss future exchanges between fishing communities of Japan and Costa Rica", notes Professor Gutiérrez.

Given the current difficulties experienced by local fishing communities in the Gulf of Nicoya area, IOI - Costa Rica is working mainly in this region and is using different approaches. Programs seek to raise basic levels of education, while at the same time, attempting to strengthen local organizations thereby enhancing livelihoods. With the professional assistance of many faculty from Universidad Nacional, the host institution, new community-based activities have been encouraged. These include the improved production of natural sponges; the establishment of local gardens; the creation of sewing groups; and the implementation of a youth eco-tourist program which has erected lodges for visitors and has initiated a water taxi service.

### Eastern Africa

**Director: Dr. K. Kairu**  
**Kenya Marine & Fisheries Research**  
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Since its establishment in 1999 this center has developed links with other IOI centers in Africa to better define "An African Agenda" for the 2001 Pacem in Maribus Conference scheduled to be held in Senegal.

Working with IOI - Southern Africa

the center has launched a new "Women and the Sea Project" with a long term goal of establishing a viable seaweed mariculture industry in Kenya. Lead by Mr. J. Wakibia, the program provides bursaries to needy graduate students, to encourage original research into seaweed mariculture viability. According to Dr. Kairu, there are emerging opportunities for cooperative research and training with the center in Nigeria.

### India

**Director: Dr. R. Rajagopalan**  
**Indian Institute of Technology-**  
**Madras**  
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**E-mail: ioi@vsnl.com**

IOI - India begins the year 2001 in a new more spacious office allotted by IIT - Madras, the host institution. The Eco-Villages Project, now implemented in forty coastal villages in Tamil Nadu, will continue to be the main focus of activities. The establishment of a youth resource center; a course for coastal ngo's; a project on micro insurance; and the extension of spirulina production are some of the new initiatives in 2001. A unique project linking micro-credit for women with the community management of a children's center will be initiated.

IOI - India will co-sponsor a regional workshop on fishing communities of the Indian Ocean. The workshop has been initiated by the International Collective in Support of Fishworkers. Several workshops on sustainable development will be held in collaboration with the Auroville International Community. According to Professor Rajagopalan, the center will continue its participation in the system-wide projects such as the Women and the Sea and the UNEP Global Program of Action News Forum.



**The rule of law  
 is the basis  
 for peace...for**

**Pax in Maribus**

**Henning Voscherau  
 PIM 2000**

## News from Operational Centers

### Japan

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The first phase of the Himi Project, a combined fishing village revitalization and sustainable fishing practices training project, was implemented in July 2000 when four Costa Ricans visited Himi City to learn about the Eechu fixed net fishing. "This exchange has multiple objectives", notes Ms. Otsuka. "We want to introduce our Costa Rican partners to Himi's traditional and environmentally sustainable fixed net fishing methods, and at the same time, we want to spark interest in traditional fishing methods among the youth of Himi City."

In April 2001, IOI - Japan will launch a series of lectures on Oceans for the citizens of Yokohama City. These public events will build on the momentum established by the wide release of Dr. Fuse's book in September 2000. Dr. Fuse and Dr. Hou Wenfeng are collaborating on a joint research project to examine "Environmental Quality of the Yellow Sea and the East China Sea."

### Malta

Director: Prof. Peter Serracino Inglott  
 The Farmhouse  
 Mediterranean Institute  
 University of Malta, Msida MSD 06  
 Malta  
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According to Father Peter Inglott the September 21-24 Leadership Seminar on Mediterranean Development and Security was well attended and a final report is now available. Key recommendations from this meeting have been raised with pertinent ministries within the government of Malta.

### Pacific Islands

Director : Dr. G. Robin South  
 Marine Studies Programme  
 University of the South Pacific  
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 Fiji  
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 Fax: 679 305 559/301 490  
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 Website: <http://www.usp.ac.fj/marine>

IOI - Pacific Islands will undertake several new activities in 2001 including involvement in the IOI-Virtual University through the preparation of courses for online delivery, and, will continue its participation in the Global Coral Reef Monitoring Network Node for the South-west Pacific. According to Robin South, an essential first step, the compilation of national coral reef status reports, is now complete. A second phase involves the formation of national task forces to provide ongoing impetus and direction. In Fiji, Dr. Robyn Cumming, from the University of the South Pacific, has accepted to lead the national task force. This group will provide multiple opportunities for Fijians and others to strengthen coral reef conservation efforts.

### Senegal

Director: Dr. Diafara Touré  
 Centre de Recherches  
 Océanographiques de Dakar-Thiaroye  
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 Dakar, Senegal  
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According to Dr. Touré, plans are well advanced for the 2001 Pacem in Maribus Conference to be held in Dakar, from November 6 to 11. A leadership seminar focusing on regional issues of interest will be held in conjunction with the annual meetings of the Governing Board and the Planning Council. Check out the IOI website for further details: [www.ioinst.org/ioisa/](http://www.ioinst.org/ioisa/).



...much of the total  
 diversity of marine  
 life is yet unknown...

Angelika Brandt  
 PIM 2000

## News from Operational Centers

### Southern Africa

**Director: Prof. Derek W. Keats**  
**Botany Department**  
**University of the Western Cape**  
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**South Africa**  
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**Website: <http://www.ioinst.org/ioisa/>**

IOI Southern Africa continues on its dynamic path of expansion and diversification. According to Derek the following five program areas continue to grow and develop:

- Mariculture Courses;
- Seaweed Biodiversity focusing on new economic uses as well as research into poorly understood crustose coralline algae;
- Sustainable Livelihoods and Integrated Coastal Management;
- Applications of Computer Networks in Education; and
- IOI – SA Online Services, a website development team providing services in order to generate funds for the center.

### Seaweed Mariculture

The seaweed mariculture program continues as one of our flagship programs, notes Derek. *Maribus Industries* has been established as a registered company and hopefully current research into the red seaweed *Gracilaria* and the kelps *Macrosystis angustifolia*, *Laminaria pallida* and *Ecklonia maxima* will provide future commercial opportunities.

### Seaweed Biodiversity

Investigations of possible biomedical activities of certain red algae found along the coast are ongoing, as are new studies on crustose coralline, algal biodiversity, and systematics especially along the eastern and southern coastlines. Research continues to focus on two aspects of seaweed biodiversity : discov-

ery of new economic uses for seaweeds and their sustainable exploitation; and attempting to understand the systematics, evolution and ecology of the numerically abundant but poorly-understood crustose coralline algae.

### Sustainable Livelihoods

Sustainable livelihoods research is expected to continue despite the termination of the fellowships of several of the leaders of this project. Recent cooperation with IOI - Eastern Africa brings a new dimension to this ongoing project. Led by J. Wakibia, a PhD student, it is hoped that ongoing work will help establish viable seaweed farming in Kenya.

### Computer Networks in Education

This ongoing and highly successful activity continues to receive substantial funding from the National Research Foundation for the period 2001-2002. There is considerable work underway involving the use of computer networks in teaching and learning. A proposal has been developed with the Coastal Management Office for a web-based clearing house for environmental materials. IOI - SA will play a key role in the implementation of the IOI - Virtual University. Early in 2001, representatives from five IOI centers will attend a week-long workshop focusing on **online learning** to prepare them for the task of designing courses for online delivery.

### IOI-SA Online Services

IOI-SA Online Services was established in September 1999 as a means of using the existing skills base in website development to generate funds for IOI-SA. The project has a development platform located at <http://protea.botany.uwc.ac.za/>. Since its inception, it has been operating at full capacity with one full-time employee. Eventually, it is hoped that a portion of surpluses created will be used to build a reserve fund to finance overall IOI activities.




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...ngo's  
+  
the media  
can hold TNC's  
accountable...

**Ruud Lubbers**  
**PIM 2000**

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## News from Operational Centers

### Western Africa

**Director: Dr. Olusegun Oyewo**  
**Nigerian Institute for Oceanography**  
**and Marine Research**  
 Wilmot Point Road, P.M.B. 12729  
 Lagos, Nigeria  
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 E-mail: niomr@linkserve.ng

Established in 2000, this center will serve the interests of the region including Nigeria, Benin, Togo, Ghana, Sierra Leone and Cameroon. Over the years, the host institution, the Nigerian Institute for Oceanography and Marine Research, has sent members of its staff to IOI training programs. Today many of these alumni are working on coastal zone management issues. According to Dr. Oyewo, the center will build on these networks and plans to work closely with other centers in Africa, to prepare for the 2001 Pacem in Maribus Conference and Leadership Seminar.

### Thailand

**Director: Dr. Cherdsak Virapat**  
**Dept. of Fisheries,**  
**Fisheries Engineering Division**  
**Kasetsart University Campus**  
**Chatuchak, Bangkok 10900**  
**Thailand**  
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 Fax: 66 1 579 8567  
 E-mail: cvirapat@hotmail.com

Following successful meetings between IOI headquarters and the Office of Thai Marine Policy and Restoration Committee, the South-East Asia Programme in Ocean Law Policy, the Aquatic Resources Research Institute and Chulalongkorn University; this new center was created in late 2000. There is considerable scope for cooperation with existing centers in Asia.

The two affiliates established in 1999, Russia and Ukraine, sent representatives to the 2000 meeting of the Planning Council and we look forward to increasing collaboration during the coming months and years.

### IOI – Ukraine Affiliate

**Director: Dr. Victoria N. Radchenko**  
**Institute of Biology of Southern Seas**  
**Nakhimov Av 3/2**  
**Sevastapol 99 011, Ukraine**  
 E-mail: radalpin@ibss.iuf.net

### IOI – Russia Affiliate

**Director: Dr. Valerie Papounov**  
**Physical Sector, IORAN**  
**36 Nakhimovsky Lane**  
**117851 Moscow, Russia**  
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Correspondence throughout 2000 between IOI headquarters and Astrakhan State Technical University in Turkestan culminated in the creation of a new affiliate for the Caspian Sea. It is hoped that the extension of IOI into these new oceanic regions will strengthen the effectiveness of the network in the areas of training, research and information sharing.

### IOI - Caspian Sea Affiliate

**Director: Dr. Viacheslav Zaitsev**  
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 E-mail: astu@astranet.ru  
 Website: www.astu.astranet.ru

**...market failure is  
 more pervasive in  
 ocean economics  
 than in other parts  
 of the economic  
 system..**

**Elisabeth Borgese  
 PIM 2000**

### Excerpts from PIM 2000

The following excerpts are from remarks made by Elisabeth Mann Borgese to delegates to the 2000 PIM Conference in Hamburg, Germany.

...I think we all here share the feeling, real or unreal, that, during the past decades many fundamental changes have taken place, many new problems have arisen, most of them anthropogenic, and we have killed many forests to produce the paper on which to spill gallons of ink, to print out the laws, rules, regulations, codes, declarations and conventions to solve the problems we have created. We all share the feeling that the time has come to put more effort into implementing and enforcing this legislative inheritance....

...What we, the outgoing generation, can do is to project a picture or model that appears to emerge from the rules and regulations and the vast literature surrounding them, which our generation has put into place. This picture will also reflect the major events and trends of the past century....So let us start with the general trends we can distill from the events of the twentieth century....

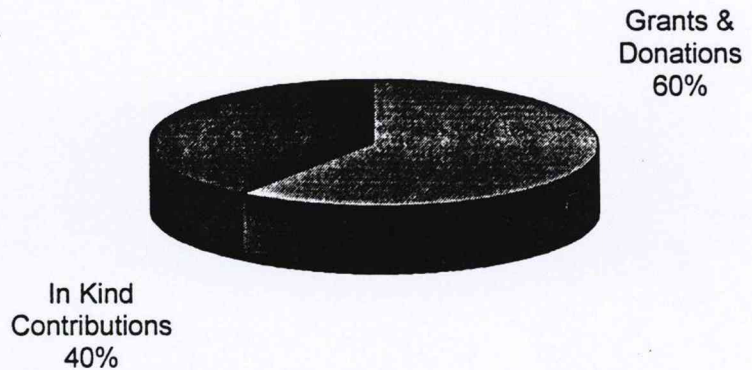
- \* the rise of environmental consciousness
- \* transformation of the scientific paradigm
- \* explosive technological development
- \* transition to service economy
- \* decolonization and emphasis on human rights
- \* end of centrally planned economies
- \* growing chasm between few rich and many poor
- \* globalization of dehumanizing trends
- \* transformation of the concept of "sovereignty"

...The next two years offer rather extraordinary opportunities to advance new, concrete proposals and to get them into the fora of *Realpolitik*....

- (1) in 2001 an Intergovernmental Review of The Global Plan of Action on Land-Based Sources of Pollution.
- (2) in 2002 "Rio +10" will provide an Assessment of 10 years of activities since the 1992 Earth Summit in Rio de Janeiro and
- (3) the 2001 week-long session at the UN General Assembly will focus on oceans.

### Focus on Finances

**Total Budget for 2001**  
**\$US2,750,000.00**



This information is based on the reports and financial statements prepared by Headquarters.

