

Journal

W. B. Smith

October

1794

Rowley C^h Church
Oct¹² 1795
Introduced to J. Outh-

do. Thome's

Monday entered my

room - Dined at Mr
F.' - Got the chests from
on board the packet
large sheet Mr. Watson's
cylinder broken -

Tuesday - Dined with
Mr. Humphreys - Messrs
Colebrook's surveyor sent

Blunt - gold ring
Provision - two other
sent - - - - -
Large reflecting telescope
- - - - -
the eye - - - - -
Cylinders to be sent my brother

- China - & -

- Wednesday -

The vessel arrived on

Monday - Large number

of the crew present, large

fleet broken -

Dined at Mr. Colwell's

Mrs. C. - her sister Miss

Atkinson - Miss Lofly

and Miss two

new Ladies - Large

company -

Thursday - Dined at

Blumberg - Mr. Morris -

Mr. Housley - Mr. Morris

and ~~two~~ three other

Johns -

Friday 10 - 1000

Mr. Deane - Country

for the better view

Produce from the State

systems - simple and

of making them -

strongly in the center -

in the middle - middle

is one - 3rd part of

the in center - France

town - of

to Church in

in favor of the other all

high - water - on the sea

in - London house

Saturday 11

Employed in' passing
the coffee cakes —
Dined at Mr. Kears
Mr. Fergusson and
Holland — The former
to accompany me
to Mr. Shaker's house
the latter to make
me some punch —

— Doctor Webber thinks
will live several weeks
after its head is cut
off — + the dog does a
crab burn and when
boiled? —

+ culentha the land about
it is level the stones are
will never answer for the
cultivation of tea
+ A Mundoo will not touch
a glass or any vessel out
of which Europeans either
eat or drink —

Calcutta - Sunday 12th ^{Oct}
Ther. at 9^{am} viz
visited Col. Murray the
Col: not at home -
saw Mr Murray - Mr
Whitford - Johnson - Ad-
disc - &c - Dined with
Dr. Dick - Mr Swinton
argument on the Chinese
whop - English Merchant
- on his word -

Monday 13th Oct. 1794
Ther. at sun rise -
got the remainder of the cattle
from on board the packet -
everything all safe -
Dined with Mr D., Mr
Wollan and Aunt Crawford -
- Mathematics - Different
generous for poetry and Math
- This morn: received a letter
signed Maria Cobb with
enclosed certificates of Dismissal
- returned them, suspecting
she was an imposture

Tuesday 14 Oct^r. 1794
This morn^g at 7 set out
with Mr Addison for the
boat where Mr Shakerpe
attended to carry us to the
Major's Dyot's Garden -
Inspected Sir Ch-
blent Mr Dent his son
in Law. Mr Addison Mr
Shakerpe - walk in the
Garden - several scarce
plants - Chinese plants -
Apparatus - Air Pump
and Menstruarius -
- arrived in town at 12 -
- visit Mr Michi -
Dent at Mr D. Dent's
Lyd - Arnica found in

Plenty in this country -
The Natives poison their
Darts and arrows with the
root of the plant Cut-Tree
commonly called jans which
signifies poison - In the
raining season this plant
which grows on the banks
of the river is washed into
the river and occasions many
diseases which are frequent
during the rainy season!!
A painter attempted to draw
this plant laid on the
table rendered shapeless &c.
The Natives have long made
use of arsenic and
wrought into pills by the juice
of the betel leaf for the

case of the Leprosy.
- Stings of ~~the~~ Scorpions
not fatal - Of the Cobra
Caspella very seldom
- poison must affect the
Nervous System - The
Natural Disorder Amule
by simply melting it &
pouring it into the oil
to make a Ointment -
Hydrocele is extremely com-
mon - In every case of
Hydrocele the Testicle may
be felt in the lower part
of the Scrotum - The
Patient who are very subject
to this Disease will seldom
submit to the radical cure -

Mint - + It has been
found that stirring and
mixing indigo in the ma-
nufacture of that dye has
proved a cure for the Hydro-
cele - you would it not
be worth while trying
the application of a solu-
tion of indigo to the Testicle
in Hydrocele - There is
a bank in this country which
is equal and in some cases
superior to the Peruvian
-Borer is used as a Medicine
in Europe for female ob-
structions - It is found
in particular parts of the
country after the rains have

evaporated, it is brought
down in jars close covered
- The Cut-Tree is as good
a flux as Cocoa and
used by the Natives as
such - Company give
no encouragement -
- Serpent stone - Natives
use for the bites of vario-
rous animals by oil -
- Cocoa nut oil fine Lamp
oil - Poppy seed oil good
for varnish - Glue -
cut machines will not
cut during the rainy
season - Doctor has found
Electricity of great use in

deafness - Natives have
many remedies in this
country which might be
introduced with great ad-
vantage in the European
practice -

Calcutta 1794
Dec: 15 Oct

Sun rise 7^h 30^m -

rain - Thunder and lightning

- Oct: from Mr Black -

visit from Mr

Thompson, who will
send me men to clean

the instruments -

Done with Mr Bell

of the board of trade

Mr Bell - Mr Farley

and others to hand on -

- drank coffee at Dr

Quirk - learned that

Maria Cobb was an ar

rent importure -

Dr. Deak's Electric
Machine is a very large
than mine, caps loose

Thurs 16 Oct. 1794

Sun rise Thur. — — — 70°

— Breakfasted at O. Ayndi —

— went to see the mint —

— Moulds of iron for casting
ingott placed perpendicular

one half falls down by a

hinge — ~~Cross~~ Bar across

the front with three screws

to make it fast to prevent

the metal getting out —

— cutting the bars into Gold

Mohurs half and Quarter —

weighed, — if too light a

notch is struck in the middle

into which a wedge is

drawn in it is then put in

to the fire and brought to

a red heat hardly discernible

in Day light - but seen when
held in the shadow of the hat
In this state it is welded
+ given is it known in Europe
that Gold will weld in so low
a heat? -

The piece is then with two
or three strokes beaten into
an almost cube and with
two or three more into almost
a perfect circle - This last op-
eration extremely ingenious
The Anvil is a piece of iron
about $1\frac{1}{2}$ inch in D^{th} fixed
in a block of stone on the
floor - This process serves
the purpose of Lamination
and renders the use of the
flattening mill unnecessary

Machine for making the
blanks all of the same size
this engine much improved
by Mr. Spalding - The blank
is put into a round hole
in a piece of steel wedged
above than below through
which it is forced by a solid
cylinder fixed in the descending
piece of the press - The piece
is supported on flat steel
therefore the fillet cannot
be forced out the metal
frame with the flat is in-
stantly lifted out and
applied to a small press
at the corner and where
it is drawn out - two men
work on opposite sides as

The same time —

— Engine for making the
Chambers somewhat convex
— use of this convexity — prevents
the Edge from being broken
near the middle —

— Milling Engine answers
extremely well, one young
man works the Sever, while
another puts in the Corn
130 can be done in one
minute. — were it possi-
ble to feed the Engine fast
enough, it would perform
double the work, it would
Mill on returning as well
as going —

— Melting pots are made
of a red coloured clay
into which is wrought some
hemp and Husks of rice
The two last mentioned article
give the pot ~~a~~ strength and
toughness, but when exposed
to a great heat the vegetable
matter are destroyed and the
pot becomes so porous as
to allow the metal to pass
through —

— Furnaces of the Natives
made of the same materials
flat — for a grate they
make holes in the clay

- Instead of bellows they use
a kind of fan made of packing
stuff - full charcoal -

- In the engine for cutting
out the blanks, there
is a piece of wood which
always determines the
distance of the next blank
This not only prevents waste
of metal but renders the
operation much quicker -

Thurs. May - Mint

- Improvement of the scale
- Screw pin for facilitating
the taking out the balance
- Scales hung by hairs instead
of silk, insects do not light
on hairs so frequently as
on silk - Essay weights -
100. 50 30 20 15. 10, 5

5 single to a quarter of a lb

weights are partly bent
and right angles for the
greater ease of lifting with
the forceps

- Whether a wheel would
be advantageous to supersede
the friction in the mulling

- Melting Engine to be
wrought perpendicular
to does not answer -

- Melting Silver - Pots of
an elliptical form hold
about 7 to 800 Rups =
weight - Pot is quite
close except a small hole
near back the silver is put
in and poured out. The
furnaces are all constructed
by the water a number
of small holes in the
bottom supported by iron
bars, transmit the air from
the ash pit - a great
quantity of Charcoal is heaped
on the furnace and covers

the pot - A pair of bellows
composed of a leather bag
and two pieces of canvas
are wrought between the
funnel - but interrupted
The funnel is generally
7 or 8 feet, consequently
one melting produces
5 or 6 thousand raffles -
The pots are obliged to
be pounded and even
ground - small hand mill

Inoculation for the small
pox practiced in Lima
from time immemorial
performed by the Padres.

Religious ceremony - God's
milk - Child kept cool

This ceremony is regu-
larly performed when
the child is years

of age

Crows very plenty abt.
Callumet - useful eat up
carcasses - Indians have
no real affection for each
other - Dead bodies thrown
into the river - Man condemned
to be hanged - "Oy well to"

Friday 17th Oct^r 1794

From Mr. Thos. 100

For two weeks past rain
and thunder almost every

Day
Dined at Mr. Lambert's
about a dozen
+ Doctor Holford is said
to have discovered a daily
change in the barometer
Numbers are divided into
three kinds long tails
short tails and no tails
Method of separating
Silver from Gold
The practice among the natives

Saturday 10th Oct 1796
Ther sent me — 7
— air cool this morn'g —
— Received the great Cy Ance
from M. Humphreys —
Dined with M. Deek
Graham, Maclean and
the wife of gentleman
— Miss Patterson — Howl
John Hunter — Home —
Museum not disposed of
— Miss Turner and Miss A.
Ferguson married —
— after dinner —
Bills for 000 —
+ Rice which grows under
the snow —

Calcutta
Sunday 19th Oct 1796
Sun sun Thur
immense quantities of cows
very tame - useful -
Visit from

To attend on Mondays
and Wednesdays at 10 o'clock
Dined at Meyer Ryd's Garden
Mr Addison Mr Lambert
Mr King &c - Great boy -
two girls - Mr Davis in
the evening - Miss Hayden
referred to the celebrated Mi-
ssea of the same name -
- but view of Calcutta is
from Meyer Ryd's Garden

Monday 20th Oct 1796

Turn over the - 700

at $7\frac{1}{2}$ x x x x ——— small

to visit of Messrs. Miller
and Boye —

Done with Capt - O - 2 -

+ In the Law Courts the Hindus

are sworn on the water of the
Ganges - They consider it as a

sacred oath unless they can pro-

cure means of muddying the
water or rendering it any how

impure. In this case they think
the oath not binding - But their

most solemn oath is with the
hand on a cow - The Mussel

men are sworn on the Coran

Friday 21st Oct. 1794
Sun rise Ther. —
Fine Mor: — 78° —

Breakfasted with Doctor D —
Levee at ten — very crowded
Convered with Sir John — Mint —
Dined with Dr Boyd
+ Fleet made by heat without
Flogistia sublimis —
— Salt peter is scraped off
the Earth — Sample procured

Wed: 22 Oct 1794
Sun in the
B^d with danger Smith
called on Captⁿ Mitchell
and Mr. Miller — Long
room bought books
Gazetteer — At Mr. Price
bought menson and
books and at another
shop a linen gown 4
shillings — to Mr. Morrison
— News that a French
line of battle ship with
frigates and a convoy
of American ships with
stores had arrived at the
Mauritius —
Dined with Mr. Davis

Thursday 23 Oct^r 1794

Sun rise that -

Wind North^y - Clear -

7³⁰
~~7⁰⁰~~

+ Gothic Architecture the same
with that of the ancient
Windows -

The Sanscrit is the original
learned language of the Hin
doo, now a dead language

- A book on the Materia
Indica translated from the
Persian with the Sanscrit
names

- To try experiments, ^h
fixing colours -

Friday 24th Oct 1794

Seen vis. Med.

The Cabin had his first
Lesson —

Done with Sir John

Shore — Language — Chemistry

Saturday 25 Oct 1794

Thurs. Sun morny - 76

- Breakfasted and dined with
W. Family - Col. Fullerton
Cap. Dunlop - walk on
the Esplanade - Even. at
M^r. Reid's - Miss Dancer

Sunday 26 Oct^r 1794.

Ther. at sun rise. — 76.

— Breakfast with Coll.
in the Fort — Visited Mr
Golding — very ill — Capt^r

Monday 27th Oct

Sun rise 7^h 10^m - 76°

break, and 7^h 20^m with Dew -

Dined with Mr Reid - anniversary
of their marriage day - 22 set
down to dinner - 19 plates ex-
periments at night -

Tuesday - 28th Oct. 1794
Sun rise Thur. - 75
- (Dined at W. Norrily's. brother
to D. Norrily -

- Tea at W. Family

Another Lecture room is
in prospect - at the Day-
office - The room is 42 by
24 nearly with ~~several~~
other large rooms on the
same floor -

Sunday 29th Oct 1793

Thursday 30th Oct. 1794

Dined with Doctor Fern^d;
 General Compt. Mr Spike
 Col. Murray. Mr. Burrows
 Mr. Calcraft - Worcester &
 - Mont - It was alledged that
 Vert. can not be made
 here Mr S - !! - Matina
 spoon - China -

Friday 31^o Oct 1794

Mr. Frank - Large Com^{rs}

Mr. Colbrooke -

Nabob - Settlement

a very small portable

instrument for survey^{ing}

would be extremely

usefull to Engineers -

Saturday 1st Nov 1794

Circars bill of 403 Rupees
besides some other articles

not yet brought in

Dined with Mr. Davis -

Capt. Crawford. Mr. B. called

Mr. Cleland &c - Doctor

Ol - l and Mr. N -

Sunday 2 Nov 1794
— with Mr. Reid — In the Ev.
news arrived from Bombay
of Lord Howe's engagement with
the French fleet —
— sent from Mr. Sp. —
Steel made by Cullack's blood
Dyes frequently found cracked
next morning — Gold refined
with Cow Dung. Groups long
and tedious — By quartz
extremely short —
Composition to present
with

Monday 3^d Nov. 1794

Tuesday 4 Nov. 1794
at half an hour before
sun rose the therm. stood in
the great room at 76 but
placed on the roof of the hou
it fell to 66.° which was the
height when the sun's center
appeared in the horizon —
— with Dr. Dick —
— have just received an acct
of an engagement entered between
Gen. Munnombi and
in which pieces
of cannon were

Wednesday 5 Nov 1794

Am in the top of the
room — 66°

— with W. Meir — Newcomb
Gordon — Restoring brittle
gold by corrosive subli-
mate — Presby more found
than the diamond —

Thursday 6 Nov. 1794
- B. with M. 7⁴ + Chama
Bayer - Refining Gold
with low dung in small
cakes - Gold beat into thin
foil or letters covered with
a mixture of brick dust and
salt piled on a heap 15
inches high in circular row
is built round the rector.
gates pit and a small
distance from it, ~~in~~
on this foundation is erected
a superstructure in form
of a dome and completely

covered in - It is lighter
at the top and burning down
ward - process finished in
about two hours - This is
repeated time before
the gold is pure - This
is a most tedious and
imperfect process -

- At the point no
pains is taken to purify
by the clay - Gold is
not refined in less time
than six months

February 7th Nov, 1794
B^d with Mr D - Capt!
C - - obliged to put in
at Batavia in order to
purchase Nitrous Acid -
- No warmly more favored
for the manufacture
of both acids than Bengal
any quantity of Rock
crystal may be had
at Bupura, it is some
times brought by way of
ballast -

Done with Dr. Robt
Chamber - went to the

Theatre in the Evening -
School for Orators -

Character by private fact -
with two female performers
- no music - An apology
was made by the manager
in these words

"I am extremely sorry
Ladies to understand the neces-
sity of appearing before you
on this disagreeable occasion
I do assure you it was not
my fault that the orchestra
~~was~~ is not here"

Is it not absurd for a man
to play the part of a woman?

Saturday 8 Nov 1795
- Dined with Capt. Craig
- Dined ~~at~~ ~~my~~ - Dined at
- Jan has observed a daily
change in the barometer -
- mode of hanging a hammock
- much to be ~~little~~ ~~safe~~
by the motion of the ship -
- created in favour of Pecos
- spire - Dark weather
- rain - Cold - This is ex-
pected to be the best rainy
weather we shall have this
season - Mr. Shaker
sent me his paper to copy
the name ^{why} ~~name~~ ~~is~~ ~~in~~ ~~vol~~ ~~45~~
Subscriber

Sunday 9th Nov^r
- with Mr. Foreman Ship-
builder - Naval Society
Lacked not well described
by Mahon's - caught
in nets - killed sometimes
with one dog - large ship
on the stocks - Mr. New
and Peter Dicks - aboard
M.D. - supper - ill
at night - Clear
sky - fair weather - cold
- changes from heat to
moisture extremely
sudden and great in degree
furniture cracks &c -

Monday 10th Nov 94
B^d with W. Baird -
Two ships arrived from
Europe the rest of the fleet
at hand - with W. Dew
Capt. Cairns - best way of
boiling beef is not put the
beef in the pot, but the
water back - Composed
for fish sauce - Mr. Ru-
mation - Telescope -

Thursday 11th Nov. 1794

Beat Doots Dicks

— Dava bleachers can take
out any spot whatever —

marking ink was sent
out from England for some
purpose — washed out —

— applicator for private
teaching — terms what

— Vitriol works —

Dined with Mr Miller

— Tallow trees in Bengal
for 30 years, but not of the

right sort — News from
England — Committee of the
house of Lords — Command
of numbers to the tower —

How are the Short China
candles made? —

At Naha romantic province
— Mosquitoes fewer in the
cold than the hot season

Wednesday 12 —

— Capt. Lamb — Emperor
Tobacco — Wash &

+ Meat wools sooner in the
hot than in the cold season
in Bengal

— Some wool sooner in
the hot season than in
the cold — Grass is laid
lightly over and between
the bottles and water
is poured on the grass
Evaporation engaged —

Thursday 13 Nov.
with Mr. Macdonald

Friday - 14 -

Saturday 15

Sunday 16

Monday 17th - Entered my
new home - Married with

Mr. Stewart the seating of
it -

Tuesday - - 18

Wednesday 19 Com.

mander ball - Company

numerous - Elegant - with

- Champagne - Wishes

- supper at 11. broke up
about 3, -

Thursday - Mr. Bus -

question of Mr. Burrow -

Friday 21st Carpenters

begin pulling up the
benches - with Doctor
Boyd - Miss Annie Boyd.

Saturday 22. Mr. Morris

Politics -

Sunday 23. O. P. Deck

- Delinctor -

Monday 24 Nov 1791

Ther. at sun rise 60°
on the roof laid on the terrace
wind about NNW —

— went to see a large
shop built by Mr. Fore-
man launched — The
could not be moved even
by the assistance of three
screws — The mechanism of
the ways was greater than
I have ever seen in England
Hence it was matter of sur-
prize that she would not
move. The cause however was
soon discovered. A lina tal-
low is used to smear the

ways with, which instead of
facilitating, greatly retarded
the business, acting by its
hardness like glue - This
I am certain is the sole
cause. How necessary it is
to attend to every the most
trivial circumstance in
an experiment of such
magnitude. After every
effort by the screws had failed
two beams were applied
to batter the hind end of
the cradle, but all in vain.
The business was given
up - It must be readily

seen that the pressure of the
atmosphere - was superadded
to the tenacity of the tallow,
their joint effects made the
cradle so fast to the ways that
I am persuaded had her head
been raised to an $\angle 30^{\circ}$ she
would not have moved -

Done with Mr. ~~Ball~~

Foreman - Parly - songs &c

Tuesday 25 Nov 1794
Sun rise Thru. Land }
on the home top - } 62°

— Another attempt to launch
the ship - Hot oil was to
be poured between the Cask
and the ways, and a set
of stronger screws were
provided - Two long
beams to act as levers
were supported on the
great blocks, the short
arms below the keel
near the bow - These
levers were scarce applied
and the screws were not

used for the want of with
great care, and with a steady
accelerated motion plunged
into the river - The cause
assigned for the failure yester-
day was, now certainly proved
to be the tallow which has
a quantity of wax mixed with
it this greatly increases its
tenacity -

- Dined with Mr. Reed -

- Mr. Miller in the Evening -

h
Wednesday 26 Nov 94
- Seeds woven with red stuff
- Dined with Mr. Mackay
Mr. Brown Capt. Angell -
Dr. Probst and Marie
- These lower on the grass
than higher up -
Caoutchuk tree described
by Linnaeus very different
from those I brought to
the botanic garden -
- a vegetable substance
which will not dissolve
in any menstruum.

Thursday 27 Nov 94
Sun in the P.M. - 61
when laid on the nose
top - Bye with Dr Lynd
Corrosive sublimate never
used the Venereal Disease
Mr. Bannet does not use
Vit. acid in his Preparation
of Indigo because the
acid is so expensive in
this country and the Indigo
is prepared with the acid
in England -

Friday 20th Nov 94
Sun rise 5^h 45^m - 61.
+ most of the bears are
from Ballisore, there will
not touch a glass or any
vessel as European use
- will not touch a tallow
candle this arises from
a compact among them-
selves, for at Ballisore
the bears have no such
regulations - In the evening
Wed Day with Sir W. Deane
sent an apology -
Dined at Mr. Fank's -

Saturday 29th Nov

— Mr. Smith much news
and little information

— This morning received
a vessel from the Govt
Govt. accompanied by
Sevent. Ladies and Gent^l
ran and near three

hours — accounts arrived
of the death of my worthy
friend Govt. Light of Penang
Some hundreds of Malloys
have lost their lives
in service —

Sunday 30 Nov^r 1794
Morning - Company -
Breakf^d with Mr. Humphs
Mr. Golding - Electric
Machine - Visit of
Mr. Franklin Mr. Reed and
Mrs. Duck Mr. Reed to
see the rooms and the
apparatus -
- with Mr. Reed -

Monday 1st Dec. 1894


Ther. I am now home temp 59°
when held in the hand. 60

- Employed in getting up
the Electric machine
and preparing the Experi-
ments for the Lecture to-
morrow evening -

Thursday 2 Oct. 1794
Th. S. Oun in flat - 59°
Employed in getting ready
for the evening lecture -
- with Mr. Fambie -
at eight o'clock entered
the room and began my
course to 100 hours
room too much crowded
- must prevent gent.
standing behind - great
inconvenience. This con-
- concluded at half past
night - some part of
the apparatus was lost

By the Gent.^{rs} commencing be-
hind occasioned a few breaks
in the Experiments, the
whole however was well
received — brilliant Com-
pany — Several Gent.
had not seats — It will
be necessary to make
additions to the seats —
— On this account I have
postponed the Lecture till
Tuesday the 9th Oct^r —

Wed^y 3^o Dec^r 1794
Employed ~~in~~ no-
giving additions to the
seats in the lecture room
which will amount to
20 persons - with Mr. D.
- made some inflamth eni
- There are about 150
subscribers on the list -

Thursday 4th Nov. 1794
— Under Mr. M. and S. at
the mint — Manner of striking
the Pieces with Lead so as
to take away 14 Annas out
of the 16 which is the Value
of a Piece — Only one ex-
ternal hole is bored on the
edge and radii which take
out all the silver —  —
consequently there is only
one small hole to fill up
with silver or other white metal
— Done at Mr. B. — Mr.
Faville and Mr. J. Forge-
ron Miss Ogilvie and Sister —

Friday 5 Oct. 1794
B with Mr D L
planned the scene - with
answers for Elect^{rs} and
Oppos^{rs} and Act^s
+ Thunders are permitted to
merry only during the
months of May and June

Saturday 6th Dec
Sun rise thru N.T. 59
W. Wind -

Sunday 7th Dec 1794

Monday 8th Dec 1794
Ther. sun rise h. t. 50°
— with M. Davis —

Tuesday 9th Dec

Mr. Fairlie —

— 2^d Lecture —

at the Expt. Sunday
except the Church and
Magazine

— After the Lecture at

Mr. Cross —

— It is not uncommon for
travellers among the Am-
ericos still to burn them-
selves. An instance hap-
pened about three weeks
ago a few miles from Cal-
cutta —

Wedn^y 10th Dec 1794
with Mr Miller -

- a posteriori -

+ at one o'clock the Rev^d

Mr M^r brought to the Lecture
room a Servant who had
been guilty of spending mo-
ney in play which Mr

B. had given him to purchase
meat ~~for~~ He offered to go thro'

the usual ceremonies to prove
his innocence - when asked
to confess said he would ~~not~~ ^{never}

- I gave him a Shock from

a large Jar, he instantly

dropped, and lay motionless

for some time on the ground

After recovering, he threw
himself on his knees and
confessed every thing —

Thursday 11th Dec 1794

3 Bullets — Subject air
went well off. Every ex-
periment succeeded. except

The Gunner and powder —

— Numerous appearances
of the sea saw to be
owing to such microscope
as in alcohols, which were
round like a wheel with
great velocity and during
the motion sent out light

Friday 12th Dec^r 1794
Ther. Am rise - - - 56°
M. Fairlie - - -

Saturday 13th Dec^r -
- with Sir William Dunkin

Sunday 14th Dec^r -
A Am rise Ther^r } 54½^o
on h. t. - - - }

Memoranda

- South's bellows -
- Blough - Sugar mill
- Spindle for fine cotton
- Thread - Loom for weaving
- Method of extracting
- metals from their ores
- of melting and casting
- Ditto -
- Hooker how to tin
- Salt fish - manufacture
- purification -
- Abras - Oil of roses
- Nindoo women wear neck
- rings - left over -
- Reports for American
- names - Form of prayer

