

Vol. II

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[Faint, illegible handwriting]

[Faint, illegible handwriting]

1790

Lewis

and

Wells

Vol 11th

London & New

1790

~~1096.~~ What height of a
pneumatic engine will pro-
duce a maximum?

Mechan

~~1097.~~ In what proportion
does the resistance of the
air increase in propor-
tion to the height?

Mechan

~~1098.~~ What is the cause of
a blind man's continued
motion?

Mechan

~~1099.~~ May not the cause of a
squint be owing to the
limits of distinct vision being
shorter in the oblique eye
and the eye turning to one
side so that by shortening
the distance it may reach the
water —

Optic

1097.

~~1900~~ Does not Besicovich's
Theory lead to this that
Matter motion is inherent
in matter? —

~~1901~~ What becomes of all
the inflammable air which
escapes from bodies? —

~~1902~~ By what experiments
can it be proved that the
rays of light do not heat
the atmosphere? —

~~1903~~ Suppose the rays of
light negatively hot
should not there be a great
degree of cold at the surface
of the day break than before
sun

and on the lower region of
a mountain when the sun
begins to show on the top
also in the shade near the
sun light?

Mechanic
~~17~~ 4. It is asserted that a
wheel - that moves with
greater velocity during the
night than during the day
Is it upon the same -

Principle of
~~18~~ 5. The air rushes up the
chimney during the day and
down during night in a
room which has had no
fire in it - Does Frost
circulation in such

~~19~~ 6. Will the bot. of a
wheel be affected in

Discovered that comets do
not if a pendulum? —
— with the watch go slower
at the Equator? —

~~1797~~ Can the sudden
fall of the thermometer
be accounted for from
evaporation? —

~~1798~~ A German Scientist
has discovered that Iron
ponderosa, chalk, Flint
Borax, Stratiles are
all metals — Cook's Jour-
nal —
(The affluence found
to be a mistake)

Navigators

~~1709~~. In hammering a
sheep of the line about
 $\frac{1}{4}$ to $\frac{3}{8}$ inch for feet is
allowed for declivity

The cradle $\frac{1}{2}$ greater
breadth of the sheep.

Double screw at the head

Blocks all struck out
except the end ones -

~~1710~~. Useful Deck posts
of the wooden Cattle
33 by 3 feet

Ditto

1911. To clean brass that
is lacquered - rub it
with Flomine oil or
Flomine on a soft rag.

Experi:

1912. Does the water of the
sea decrease? Does it not
appear to desert the shore?
May not the sand banks

N. Pliny
thrown out on the shore
be brought from below?
or are they carried down
the rivers? The water
taken up in vegetation
and other processes of
nature all returns to the
sea again —

1913. In the age it is
said that the bottoms
of the nails turn black,
before the jet —

~~1914~~ Suppose the rays
of the sun are neglected,
that and rob the lower
part of the atmosphere
when they begin to shine
on the upper, may not
the ^{middle} world below be occu-
pied by the rays touching
the earth at some distance
when they illuminate the
upper part of the atmosphere
they are being cut by a
horizon of the earth cut by a

N. H. H. H.

1915. Why is the paint
behind a picture frame
or the hand or chair
(discoloured)? Is it owing
to want of a free circulation
of air or to want of light?
Light bleaches vegetable
substances white, does
it produce the same on
mineral substances? or
is there a tendency to
reduction of the state
of lead in white lead
by the rays of the sun
which are photolytic
- or their absence

Micellam was

Metals

~~1916~~ In forming
a metal, care must be
taken to let the air escape
freely from the mould, to
prevent scum getting into
the mould - An improve-
ment is to let the metal in at
the bottom of the mould

~~1917~~ Metal may be cast
without making the
mould broader above
than below - by mak-
ing it in halves if a square
or rectangular box -

~~1918~~ It is asserted that
mild silver (from lead) makes
stronger steel than when

Cap rected!

~~#918.~~ If any Phlogiston
substance fall into
the pot of melted Gold
it renders it brittle
and no longer malleable
restored by corrosive
sublimale

~~#919.~~ When Gold is held
over the surface of burning
brimstone it grows white
this it is said happens
only when the Gold is
not pure

~~#920.~~ Silver sometimes is
the air on account of the
Copper it contains

1921. Melted iron is espe-
cially heavier than
cold iron, because a cold
bar expands in a melted
Pot. There is this the
case with any other
metals?

Q. No
1922. May not preparing
Gold by hardening it
be the best method
of making gold springs?
—

Q. No
1923. Some suppose that
the difference between
hard and soft iron con-
sists in the form: being
expressed of the plumbago

~~1924.~~ A much made
of sand better than
Moist of Paris, air
escapes better in the form

Experiments

~~1925.~~ What is the reason

That water thrown on
mud copper produces
such a great explosion

Experiments

~~1926.~~ Suppose a vessel
of cold water and one
of warm equally ex-
posed to the air for
half an hour which
will freeze soonest?

Experiments

1927.

Fig 23. Acorn bucking
water on paper when
stirred put in a quantity
of glue and rubbing this
makes the substance for
the ornaments on Chir-
ney, pieces &c

Fig 24. Stuck may be made
in small quantities in
the following manner
Burn a quantity of Beeth
look up the ashes with
urine put in a Crucible
covered with sand.

— Given is it not the
proper manner of the
Ornament substance

that converts the iron
into steel?

~~1925.~~ That it is not Phlo-
gester that makes
steel will be obvious
from the following
experiments —

1. In testing the bone
ashes it is covered with sand
the crucible surrounded
with sand and yet the
iron ring is converted
into steel, here no
phlogester matter
comes in contact

2 In soldering the necks
of metal buttons the
binding wire which
is in contact with the
other button is wound
into steel, on the other
side it is still iron

3. wrap a small wire
round a cylinder
of steel & pour it to heat
it will be converted

+ Hence it appears that
steel has the property
of making steel like
a magnet, & so on
like that too any
number in succession

~~#426~~ It may be said
that the bones which
still retain some Phlogis-
tens but this can not be the
case, because the leading
the testing process ^{could} would
not be interrupted as about

~~#427~~ Modern Mortar
not equal to the ancient
was the ancient made
of different kinds, sand
is, had the ancient a
different kind of com-
paring it? - True! -
Doubtless -

1920 By what means

Do fish walk inverted
- glutinous substance
on their feet - Claws -

- Do the lungs expand
as in swimming?

Miscellaneous

Can a fly enlarge its
body by drawing in
air - will this make
any body specifically
lighter in air? -

~~1929~~. What was the
object in putting
ancient columns?
Was it to support
the spars?

Fine Arts

~~1930~~ In what respects
does one hardening
differ from the other
process? are they the same
but differ only in time
— when the one hardening
process is continued as
long as the other, the
result is the same

Art History

~~1931~~ Cement for
walls made of poor
French chert & sand
an oven and finely
ground, this with lime and
fine sand makes a very
durable cement - This
proves a chert answer
well for masonry in the
surface of metal by pre-
vent scores by abrasion
the stone -

~~1932~~ Bone is better
corker and more porous
fatty by being wrought
up with resin, this
shows that phosphorus

is concerned - In iron
furnaces the colour of
the phosphorus flame is
manifest - This probably
constitutes the difference
between cast and wrought
iron and wrought iron
and steel -

~~1933~~ What is Phosphorus
base? what is found
Charcoal?

~~1934~~ Causes a bluish
The salinity of the sea
1. washes salt from the
sand by rain 2. Salt water

From Ark

McAlly

From Ark

N. M. M. M.

3. Originally Salt -

~~1925~~ Salt Sea water not
saturated with salt = $\frac{1}{3}$
then greatest, & hence brine
= $\frac{1}{4}$

~~1926~~ Is there any fish
that could not exist
in fresh water?

~~1927~~ Salt Gubbe is made
in some parts of the
east India by burning
a long kind of grass
on rising grounds, & which
during the rainy season
is washed down into the
low ground, and mixed with
a particular soil produces

Manufactures
Mr. Gubbe

The mine — ~~Jan 4~~

Chem.
~~1759~~ In Spain the mud
walls of old houses mixed
with animal matters and
wood ashes are all put
together —

Miscell.
~~1729~~ What is the reason
that a vessel of water
placed in a room new
packed with white lead
is rendered noxious? The
water is also said to de-
crease the smell.

Elect.
~~1740~~ What effect has
Electricity in (De-phlog-
a-i?)

~~#1~~ 1. Without pure air
Electricity probably
could not exist.

~~#2~~ 2. Philosophers have found
mercury in an empty
glass bell, leave a
small quantity of pure
air, this will probably
increase the effect.

~~#3~~ 3. Will a bit of meat
when warm conduct
electricity?

~~#4~~ 4. Now you know the
colours affect the con-
ducting power of bodies
both with regard to com-
mon fire and Elect^{ricity}.

+
1945. Would not a *Cultur*
re on Mechanics
be a useful addition to
the Society of arts? —

1946.

1950. - Methods for the
Chemical repository
- Sympathetic Tincts
- Phosphoric preparations
- Tests for waters
- Experiments on various
- Acids in all their dif-
ferent forms -
- Alkalies ditto -
- Metallic ones - calces -
- Tests for Minerals
- Tests for different soils
- Tests for marking
- Linen -
- Better cement -
- Sublimation
- Method to render salt
- butter pure -
- Tests for the adulteration
- of wine -

- Articles for the Chemical
repository — continued
— Vegetable Solutions
for colours
— Neutral Salts
— Linn for Sale
— Microscopes Lamp
— candle
— Varnishes
— Cements
— Lutes
— Lime water
— Polonian Phosphorus
— Hyposphorus
— Sabor Dianna
— Mechanical recreations
— Sabor Morte
— Mineral Camellion
— Linnin turned to Spring
— Pencil Papers
— Water Hammer

— Chemical Repository
— Crankers — Boilers — Wha-
ting ditto — Glass Drops
— Glass feather —
+ Muscular tone i.e. Lamb Diodes
in the marine acid. when wa-
sinated and mixed with vit. Tar:
and stored gently becomes solid
— Preparation for taking out
claims of all sorts —

Chemical Repository
continued

Apparatus

- Portable furnaces
- Crucibles common - of
Tobacco pipe clay -
- Tongs &c -
- Moulds - chemical
apparatus -
- Specimens of fossils
- Spars - Statuettes
- Lavas -
- Doctor Stahl's iron fur-
nace lined with a com-
position of clay and Char-
coal -

X
1951 *Tromble* with a
acetate lead - write
with this on one side
of a paper, cause another
pen with the
marking with on the
same part of the paper
Drop a little cotton in
the sympathetic ink
and paper the writing
will be wiped off and the
print will appear

Chemistry

~~1952~~ Chemistry. Lime water added
to an infusion of red
cabbage makes it a
better test —

~~1953~~ Experiment. A Flint hard on the
hand on any thing soft
is easily broken, but
on any thing hard will
be ^{kept} in place —

~~1954~~ Test paper — red cabbage
turns red.

Chemistry — To preserve an infusion
of red cabbage boil the cabbage
which will dried in a small
quantity of water, add a
small quantity of Oil and
and precipitate it with
Chalk, the infusion may
be kept a long time.

~~1955~~. A bit of test paper
held over Sal. alkali:
(red Ammonia) instantly
changes its colour. If im-
mersed in water and that
the smallest quantity of
alkali is put, is changed
more than when held on
the bottle —

~~1956~~. Does not the sugar
in the syrup of Vit.
prevent its effect as a
test?

~~1957~~. Does Wiggan's intro-
duce sufficient air into
the retort in refluxing
Phosphorus to prevent the
water from the receiver flow-
ing in the retort.

~~1950~~ Sulphur is not in
held by hepatic air (
hepatic Sulphur, Dis-
covered by the Phlogiston
but air, or sugar of lead

Phos

~~1959~~ Two bodies shall not
~~1964~~ smoke by themselves and
yet when near each other
(oo. but at Paris and
Val: auloy and

Phos

~~1960~~ Salt of copper for
a while in the pit:
and a ^{large} ~~piece of~~
among better than the
others for forming air

Phos

~~1961~~ Mineral consists
warm water without
the water

Phos

Chemistry

~~196~~ 2. Dull (oxide
(combined with Phospho-
rus produces an air
which takes fire when
exposed to the atmosphere
explodes when mixed
with pure air —
— carries fire thro' in-
flam^t. air contained in
the Vol. alk. —

Chemistry

~~196~~ 3. Process to fix Mercury
Salzart. into spirit
of herb^s. Vol. alk. put
1000 and pour over it
Calc ammoniac — add
Sea Salt, the Mercury
acid unites with the
Vol. alk. = Sal. am.
and the Vol. a. with
the spirit alk. forming
a green salt —

There are several by

[#]
1964. From the article 1959
Mim it appears that ^{as} solid may
be formed of air! -

~~1965~~. A preparation of Zink
Chew will form a fine white

~~#964~~ would not on its
Journal answer best
for my experiments?

Memoranda
~~#965~~ In summer Dec in
fixed air not for its
noxious quality but for
the absence of free air -
Influenza &c. as it is
free from its noxious quality
- this from the appearance
of the animal dying
Columb. M. 2

Diary
~~#966~~ Sulfur Sulphur
a good test of white
paint - Also infusion
of Galls

Diary
~~#967~~ In the experiments
on Colours with the infusion
of Galls, the colour

seems to depend on the
Salt & not on the acids
or Alkalis employed -

1968. Terra ponderosa
is prescribed as a medicine
given in what Desars
Doctor Crawford makes use
of it

1969. What is the best
method of Quotizing
flint? Such a propor-
tion of Alkali may
be added as will make
the flint dissolve in
water - A permanent
white may probably be

made of this.

1970. Model of a burning
mountain - Drawings
of Shata - Figures of
Animals - Plants -
- Specimens of fossils
- Sa seed - Fossil Sicus
- Model of the Jewish Case
- Tin funnel for powder
- Brain for Electricity Exp.
- Plate for charging -
- Plans for Electricity
- Lock of Cotton - fish -

~~1977~~ Miniated Lime

Chemistry attracts more moisture
from the air than any
other alkali; more conve-
nient for drying air than
Vittrioli acid —

~~1978~~ If the caudex Philo-
sophica be held in
the mouth of a bell
jar it gives a humming
sound —

Chemistry

Mrs. Cony and Weston
145 Leadwell Street

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