THE NEW WANDERINGS

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As you may have noticed, the posting of this *Wanderings* is VERY late. I must apologise, but other matters had to take a priority. Additionally, I have to inform you that this will be the last *Wanderings*, for the time being, but I hope to be able to start up again later in the Spring.

Wanderings:

Wind Powered Bamboo Minesweeper

Afghani designer Massoud Hassani has been was nominated for the *Designs of the Year 2012 award* from London's Museum of Design for his invention of a wind powered bamboo minesweeper.

The Computational Design Lab

Check out the many interesting projects at the lab.

Amateur Biology Blog

This blog has links to many biology databases.

BIO Short Labs

DIY BIO

"DIYbio.org is an organization dedicated to making biology an accessible pursuit for citizen scientists, amateur biologists and biological engineers who value openness and safety."

BioCurious

BioCurious is a San Francisco Bay Area hackerspace that is devoted to the **DIYBIO** community.

What Materials Glow Under Ultraviolet Light?

A recent TV program that was investigating the cleanliness of hotel rooms convinced me to buy a UV flashlight ☹

Black Light Flashlight Hack!

Kip Kay shows us how to modify a LED flashlight so that it can be used to locate "Nasty Stains". ☹

CS Alloys

CS Alloys are a family of low melt or fusible alloys, composed of bismuth, lead, tin, cadmium, and indium, that find application in many fields.
I recently purchased a bar of **Cerrosafe** to make a casting of a rifle chamber.

Wood's Metal

The Wood's Metal alloy is similar to the CS Alloys.

DIY Machinable Wax

Here is Jim Hannon's description of his initial experiments with a DIY Machinable Wax.

Make Your Own Machinable Wax

The MachinistBlog is one of the many sources for recipes for machinable wax that can be found via Google.

Squishy Circuits

The goal of The Squishy Circuits project is to design tools and activities, which allow kids, of all ages, to create circuits and explore electronics using, play dough.

Kobakant

The Kobakant Collective explores the use of textile crafts and electronics as a communication medium. Their **How to Get What You Want** page contains many links that should be interesting to the general experimenter.

The Heath Robinson Rube Goldberg Computer

This "work in progress" was named in honour of the illustrators, William Heath Robinson and Reuben Lucius Goldberg, who are famous for creating illustrations of incredibly complex machines that would perform relatively simple tasks.

IC's? We Don't Need No Stinking IC's!

Have a look at Dr. Harry Porter's DIY Relay Computer

Building Complex Machines Using LEGO

Following along these same lines, have a look at a couple of Andy Carol's LEGO creations:

- **Babbage Difference Engine**
- **Antikythera Eclipse Predictor**

Antikythera Mechanism

This YouTubs presentation shows Michael Wright's working model of the **Antikythera Mechanism.**

A DIY CNC Router Table

David Setya Atmaja describes his DIY Computer Numerical Control (CNC) system.

Insearch Of The Perfect Kilogram

Since the 1970s scientists have been working towards moving from a physical object to a kilogram based on fundamental constants of nature.

DIY.org

"**DIY** is a club for kids to learn skills. Makers share their work with the community and get patches for the Skills they earn. Each Skill consists of a set of Challenges that help them learn techniques to get the hang of it. Once a Maker completes a Challenge, they add photos and video to their Portfolio to show what they did."

Airships: The Hindenburg and other Zeppelins

This is Dan Grossman's site covering his interests in the Graf Zeppelin, Hindenburg, U.S. Navy Airships, and other Dirigibles

Static Shocks in Supermarkets

How many of you, like me, experience static shocks while filling your grocery order at the supermarket?

Slides: A Playground Menace

For thousands of hearing-impaired children, static, that may be generated as they go down playground slides, can shut down their cochlear implants in an instant.

ESD Journal

The previous two items were found on the ESD Journal. Check it out for other articles and information on ESD (Electro Static Discharge).

Omnimatter

Omnimatter is a haphazard mish-mash of geek, kitsch, science and philosophy.

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From Instructables, YouTube & Make:

Instructables: Geo Data Logger

This Arduino based prototype can be used to log, geo-tag, and time-stamp sensor data, which can then be analysed with mapping and data analyses software.

Instructables: DIY BIO Printer

This device shows you how to hack an old inkjet printer to allow you to print with biological materials.

Instructables: Build a DIY Glove Box

This DIY Anaerobic chamber was designed and built to grow cultures in a low oxygen atmosphere.

YouTube: Random Weekend Projects

Grant Thompson presents a collection of his "Random Weekend Projects".

YouTube: How to Make a Graphite Crucible

See how to make a DIY Graphite Crucible.

Make: A Urine Powered Generator

Four Nigerian schoolgirls demonstrated their generator during a Maker Fair.

Make: Science Archive

Perhaps you can find an interesting science project buried in the Make: Science Archive.

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Random Samples:

Pepakura Designer

Pepakura Designer is a shareware program that allows you to create paper craft models from 3D data such as produced by **MetasequoiaLE** and many other 3D drawing packages.

J. S. Bach's Sinfonia to Cantata 35

I bet that Bach would have loved the potential of electronic music. He would have had **a ball**!

The Geek Atlas

128 places where science and technology come alive [Paperback] by John Graham-Cumming

The Scientific Traveler

A guide to the people, places, and institutions of Europe [Paperback] by Charles Tanford

Guidebook for the Scientific Traveler

For those visiting physics and chemistry sites across America [Paperback] by Dr. Duane Nickell.

Guidebook for the Scientific Traveler

For those visiting astronomy and space exploration sites across America [Paperback] by Dr. Duane Nickell.

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Suppliers and Stuff:

Smart Elements

Here is a source of high purity elements for periodic table displays, research or collecting.

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