THE NEW WANDERINGS

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Feature:

This was, originally, going to be August's column, but I could just not find the time to post it up on the site.

Hopefully, things will get back, somewhat, to normal in the fall.

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Wanderings:

HeatSync Labs

HeatSync Labs is a nonprofit hackerspace in Arizona. Our objective is to empower engineers, artists, and inventors to push the limits of technology beyond its intended use.

SEM Buildblog

This site documents the inception and build of the Heatsync Labs Scanning Electron Microscope. Also see their **YouTube presentation**.

Millefiori: Ferrofluid Mixed with Water Colors

These thumbnail sized images were created by mixing ferrofluid with water color and putting it into a magnetic field.

Sci-Spot

Check out *Sci-Spot* for a source for amateur science information and supplies.

DIY Ferrofluid

Sci-Spot shows us how to make ferrofluid.

Ferrofluids from POPSCI

Popular Science shows several receipts for making ferrofluids.

The Puget Sound Knappers

This site's purpose is to serve as a platform to promote and practice **knapping** basics and skills.

An Experimental Infrasound Detector

Jim Hale constructs a simple Infrasound Detector

The Inexpensive Infrasound Monitor Project

Here is detailed information on a low-cost design for a microbarograph that can detect and monitor infrasound (sound less than 20 Hz)

Can A Static Spark Set Off Black Powder?

Yes --- But it ain't easy!

Drones: From War Weapon To Homemade Toy

An interesting article by Larry Abramson

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From Instructables, YouTube & Make:

Instructables: Magnetic Silly Putty

Try some DIY magnetic silly-putty to complement your ferrofluid

Instructables: A Cathode Ray Tube in a Wine Bottle

"This simple project will allow you to investigate a variety of intriguing effects including magnetic deflection of an electron beam, Crookes dark space, plasma striations in a gas discharge tube, and many others."

YouTube: Homemade Particle Accelerator #1

Here is a short look at amateur built accelerators.

YouTube: Homemade Particle Accelerator #2

Boy! I LOVE that music!!!

YouTube: Michio Kaku: An Atom Smasher in the Garage

Thanks to a myopic Congress, the U.S. now lags behind Europe in particle physics research.

YouTube: Blow Tube

Once more, Arvind Gupta shows his great skill in changing trash into scientific demonstrations. This time he looks into Bernoulli's Principle.

Make: 9-Year-Old's DIY Cardboard Arcade

A 9-year-old boy's day is "made" when his elaborate DIY cardboard arcade. Gets flashmobed.

Make: School's Out! Best Summer Ever Special Issue

Most of the projects, in this magazine, are just pointers to the full documentation on their web site.

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Random Samples:

Smithsonian Institution Research Information System (SIRIS)

SIRIS is your gate way to a great collection archived information.

SIRIS Search for "Amateur Science"

Here is an example of a SIRIS search.

US Army Manuals

Many of the Army's manuals are available on line.

The World Oral Literature Project

The World Oral Literature Project is "an urgent global initiative to document and make accessible endangered oral literatures before they disappear without record."

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Suppliers and Stuff:

RSpec Explorer / Real-time Classroom Spectroscopy

Tom Field sent me this link to a terrific PC based spectroscope.

United Kingdom Geologists Equipment (UKGE)

UKGE can supply, world wide, a wide variety of Earth Science Equipment, Tools and Books, Geological Maps, Field Equipment, Navigation / Safety Wear, stone tumblers and microscopes and much more.

Tinker Toys for Grown-Ups

Build Anything with PVC

The Gurkha Kukri

The kukri (various spellings) is the traditional knife of the **Gurkha** soldiers from Nepal. The best ones are hand made by skilled smiths working out of their home forges. **See how a kukri is made**. Also, have a look at **this site**.

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