

# 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.

<http://wanderings.ca/Index.htm>

**[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 flashmoted.

### **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.

<http://wanderings.ca/Index.htm>

**[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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