**Duffy Lab**

**Standard Supplies (7/28/11)**

**(Please help to keep this list updated)**

**Argon**

Airgas East, Philadelphia PA

 AR UHP300 99.9999% Ultra-high purity gas cylinder

**Belleville Washers**

 Associated Springs/Raymond, Maumee, OH

ss Belleville washers, 3/16” Part: B03-75-020S

**Beryllium Gaskets**

Venice Precision, 112 Morse Court, North Venice FL 34275

 941-485-7700, veniceprecision@verizon.net

 Talk to Bob Gredick (owner)

**Bulbs**

 Bulb Direct, Pittsford, NY

 EKE-US (21 V, 150 W)

 Osram lamp (6V, 20 W) 64250 HLX ESB/FHE

 Osram (15 V, 150 W) 64634 HLX EFR

**Chemicals**

 Alfa-Aesar

 ESPI

 Sigma-Aldrich

**Dessicant**

Hammond Drierite, Xenia, OH

**Electrical**

 Newark Electronics, Ft Washington, PA

**Epoxy**

Pro-Pac Corp., Branchburg NJ

 Stycast 2850FT Blue Epoxy (3 lb)

 Catalyst 24 LV (8 oz)

 Epoxy Technology, Inc, Billerica MA

 Epo-Tek 301 and Epo-Tek 353ND

**External Heating for DAC**

 Cotronics Corp, Brooklyn NY

 Hi Elect. Resist. Ceramic Adehsive 919-1

 Omega Engineering, Stamford CA

 Unsheathed Pt wire SP13RH-010

 Unsheathed fine gage t/c CHAL-002

 Unsheathed wire thermocouple P13R-002

 Fiberglass 20 gage FBGS-BK-20

 Ceramic 2-Hole Round TRX-164116-6 TRX-04018-6

**Furnace Items**

 Coors Tek, Chicago, IL

 Crucible (6 ml) and cover 65532, 65603

**Lab Supplies**

**Cole Parmer**

 Mortar and Pestle, Porcelain U-17820, U-17821

 Petri Dish, Pyrex EW-34551-01

 **Daigger**

 Whatman Benchkote Bench Paper, 18 x 22” loose sheets EF8305A

 **Fisher Scientific**

 Disposable Aluminum Dishes (44 mm) 08-732-5A

 Tin Specimen Boxes 03-490A, 03-490D

 Metal Needle Holder 08-960B, 08-960A

 Conical sample cups and caps 02-544, 02-544-10

 Shell vials, 12 x 35, 03-375-9

 Mortar and pestle, Al2O3, 12-948A, 12-948C 12-948-5A, 12-948-5C

 **Instruments for Research and Industry, Cheltenham, PA**

 Glove Bag (X-27-27H)

**International Products Corp., Burlington, NJ**

 9031 Micro liquid lab cleaner (qt)

 **McMaster–Carr**

screws

 10-32 x 1” socket head screw 91251A347; 91251A351 (1.5” length)

 10-32 x 1” socket head screw – left handed 91670A999 or 9167A316?

 10-32 x ½” socket head screw 91252A242

 10-32 X ¼” S.S. Sc. cup point 91375A438

 3-48 x 3/32” Set screws, coarse thread 91375A088

 3-48 x ¼” Set screws, 91375A092

 **MSC Industrial Supplies, Warminster, PA**

 **PGC Scientifics Corp., Gaithersburg, MD**

Shell vials, 8 x 30, 82-5689-70

 **Sigma Aldrich, Milwaukee, WI**

**Laser**

 Coherent, Inc, Santa Clara, CA

 Verdi Air Filter 0170-383-00

**Microdrills**

 Minitool, Los Gatos, CA

 Spade type carbide microdrills 125-15-1

 Drive Belt for model H drilling machine MD 0013

**Microscopy Supplies**

 Ted Pella, Inc. Redding, CA.

[www.tedpella.com](http://www.tedpella.com)

 --Pin Vise

 --Sytrene square boxes

 McCrone Microscopes & Accessories, Westmont, IL

 [www.mccronemicroscopes.com](http://www.mccronemicroscopes.com)

 -- tungsten needles

 Lhasa OMS, Weymouth, MA

 <http://www.lhasaoms.com/seirin_needles-23-page.html>

 -- steel acupuncture needles

**Mitutoyo micrometers and objectives**

 MRO Industrial Supplies, Manville, NJ

**Office Supplies**

 OfficeMax

**Optics and Mounts**

 Coherent/Ealing

CVI Laser

 Edmund Scientific

 Melles Griot

 New focus

 Newport

 Oriel

 Rolyn Optics

 Schneeberger

 Thorlabs

**Re foil**

 Sigma-Aldrich

 50 mm x 50 mm, 0.25 mm thick - 267317-13.2G

 25 mm x 25 mm, 0.25 mm thick - 267317-3.3G

**Polishing Supplies**

Lapping Film

 Allied High Tech Products

 0.3, 1, 5, 9 um Al2O3 (8” lapping disk)

Polishing Oil

 Beta Diamond Products, Yorba Linda, CA

 lubricant W/W

 Abrasive disks

 Buehler, Lake Bluff IL

Abrasive Disks 8” (240 grit, 600 grit) 30-5108-xxx-100; where xxx is 240, 600 etc.

**Samples**

 Ward’s Natural Science, Rochester NY

**Saw Blades**

 Buerhler, Ltd, Lake Bluff, IL

 Buehler isomet Diamond wafer blade 11-4253, 11-4254

**Single Crystal plates**

 MTI, Richmond CA

 Commercial Crystal Laboratories, Naples, FL

**Stereomicroscopes**

 Leica (I. Miller Precision Optics, Philadelphia, PA)

 Meiji Microscope, Capital Microscope Services, Clifton Park, NY