

**SNEAP REGISTER**  
**Compendium of Suppliers**  
**Oddball Materials, Goods, and Services**

Edited by: Chris Westerfeldt

Available from <http://www.tunl.duke.edu/~sneap>

Additions, deletions, corrections are welcomed. Send via email to:  
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27708-0308.

Listing of companies does not constitute endorsement of products or services by TUNL  
or Duke University.

## Metals - Specialty, Alloys, Braze

Alfa Scientific  
P.O. Box 8247  
Ward Hill, MA 01835-0747  
Tel: 800-343-0660  
Fax: 800-322-4757

High Purity elements, foils, rods, tubes,  
powders, compounds, chemicals

All-Chemie, Ltd.  
Mount Pleasant, SC 29464  
Tel: (803) 884-4400  
Fax: (803) 884-0560

Rare & Ultra High Purity Chemicals,  
Metals, Crystals, Isotopes

Atomergic Chemetals Corp.  
222 Sherwood Ave.  
Farmingdale, NY 11735-1718  
Tel: (516) 694-9000  
FAX: (516) 694-9177

High purity inorganics, metals, ceramics,  
single crystals, stable isotopes

Goodfellow Corporation  
Suite 140, 301 Lindenwood Drive  
Malvern, PA 19355-1758  
Tel: (215) 640-1612  
Toll Free:(800) 821-2870  
FAX: (800) 283-2020

High purity metals, alloys

Callery Chemical Co.  
Callery, PA 10624  
(412) 538-3510

Cesium metal in ampoules

Diversified Industrial Products, Inc.  
Plainview, NY 11803  
Tel: (800) 822-5461  
Fax: (800) 822-5469

Standard & Hard to find metals  
Alloys, Bars, Extrusions, Foils, Forgings,  
Plates, Sheets, Tubes, Wire  
MIL stds

Hamilton Precison Metals  
P.O. Box 3014  
1780 Rohrerstown Rd.  
Lancaster, PA 17604  
(717) 569-7061

ultra-thin Havar foil  
windows for gas cells, etc.

Indium Corporation of America  
1676 Lincoln Ave.  
P.O. Box 269  
Utica, NY 13502  
(315) 797-1630

Indium foil, wire  
Joining High-Current elect. joints,  
Cryo-pump array surfaces,  
"O" Rings

Kulite Tungsten Corporation  
160 East. Union Ave.  
East Rutherford, NJ 07073  
(201) 438-9000

Tungsten alloys for x/γ shielding

Metals Broker Inc.  
Huntington, NY 11743-1448  
Tel(800) 580-8077  
Fax: (516) 754-6569

All Forms & Sizes Metals & Alloys

Metalmen Sales, Inc.  
Long Island City, NY 11106  
Tel: (800) 767-9494  
Fax: (718) 204-1703

Stocking Dist. Stainless, Nickel, Ti, Ta  
many other metals and alloys  
special processing

Rembar Co.  
69 Main St.  
Dobbs Ferry, NY 10522  
Tel: (914) 693-2620  
Fax: (914) 693-2247

Kovar, Ta, W, Mo  
Plate, Wire, Rod, Foil, Ribbon

Rhenium Alloys, Inc.  
Box 245, 1329 Taylor St.  
Elyria, OH 44035  
(216) 365-7388

Mo/Re Alloy tubing  
small percentage Re adds  
ductility to Moly.

Spang Specialty Metals  
Box 391  
Butler, PA 16003  
(412) 282-3014

Kovar & magnetic materials  
smelter

Strem Chemicals Inc.  
Dexter Industrial Park  
7 Mulliken Way  
Newburyport, MA 01950-04098  
Tel: (978) 499-1619  
Fax: (978) 465-3104  
Web: [www.strem.com](http://www.strem.com)  
Email: [technical@strem.com](mailto:technical@strem.com)

Cesium, Rubidium, etc.  
high purity chemicals

Wesgo Division  
G.T.E. Products Corp.  
477 Harbor Blvd.  
Belmont, CA 94002  
(415) 592-9440

Hi-temp brazing alloys  
from 800° to 1770°C

## Carbon Foils, Graphite

Alfa Scientific  
P.O. Box 8247  
Ward Hill, MA 01835-0747  
Tel (800) 343-0660  
Fax (800) 322-4757

Carbon sheet, rod, fibers, fabric

Arizona Carbon Foil Company  
2239 East Kleindale Road  
Tucson, AZ 85719-2440  
Tel 520-325-9557  
Fax 520-325-9493

Carbon foils, evaporated and cracked ethylene for strippers and target preparation, isotopic foils and metal foils

e-mail: [metalfoil@cox.net](mailto:metalfoil@cox.net)

Ernest F. Fullam, Inc.  
900 Albany Shaker Road  
Latham NY 1211  
Tel: (518)-785-5533  
Fax (518)-785-8647

Collodion & Formvar for support of thin carbon foils, Victawet - a release agent. "Accessories for Microscopy" catalog has many useful items for thin foil work.

Goodfellow Metals  
Suite 140, 301 Lindenwood Drive  
Malvern, PA 19355-1758  
Tel (800) 821-2870  
Fax (800) 283-2020

Carbon Foils, fibers, rods, tubes, fabric

Micromatter, Co.  
Rt. 1 B ox 72-B  
Eastsound, WA 98245  
Tel: 206-376-4007

Carbon foils and custom target fabrication

Poco Graphite, Inc.  
1601 South State Street  
Decatur, TX 76234  
(817) 627-2121

Graphite plates, sheets, rods, cylinders

The Stackpole Corporation  
205 Vickie Street  
Ladson, SC 29456  
Tel (803) 875-3600

Graphite stock, rectangular, cylindrical

Yissum Research Development Co.  
46 Jabotinsky St.  
P.O.B. 4279  
Jerusalem, 91042  
Israel  
Tel: (02) 699033  
Fax: (02) 660331

Carbon foils for strippers and target preparation

### **Coolants for Ion Sources, Etc.**

Peerless Industries  
PO Box 272  
Burlington, MA 01802-0472  
Tel: (617) 273-2168  
Fax: (617) 273-2208

PF-5080, 3M replacement for R-113

### **Electronics, Hardware, Services**

Ross High Voltage  
559 Westchester Drive  
Campbell, CA 95008  
Tel: (408) 377-4021  
Fax: (408) 377-5182

High Voltage Relays, Voltage Dividers,  
Corona Shields, Spheres, Nuts, and accessories

Surplus Sales of Nebraska  
1502 Jones Street  
Omaha, NB 68102  
Tel: (402) 346-4750  
Fax: (402) 346-2939

Surplus electrical and electronic  
components and equipment  
[www.surplussales.com](http://www.surplussales.com)

Dielectric Sciences  
88 Turnpike Road  
Chelmsford, Mass 01824  
(508) 250-1507

High Voltage wire, cable, feedthroughs  
& connectors

Trek, Inc.  
3932 Salt Works Road  
PO Box 728  
Medina, NY 14103  
Tel: (716) 798-3140  
Fax: (716) 798-3106

Electrostatic Voltmeters, High Voltage  
Power Amplifiers

Rowe Industries, Inc.  
6225 Benore Road  
Toledo, OH 43612  
(419)729-9761  
(419)729-1794 (FAX)

High Voltage Wire & Cable

E-T-A Circuit Breakers  
7400 Croname Road  
Niles, IL 60714-3982  
Tel: (708) 647-8303  
Fax: (708) 647-7494

Automatic Resettable Circuit Breakers  
used in HVEC terminals, and other  
power protection products

## 400 Hz - Equipment

Abbott Transistor Labs  
Transformer Division  
520 Main St.  
Fort Lee, NJ 07024  
(201) 461-4411

400 Hz Power transformers

Georator Corp.  
9617 Center St.  
Manassas, VA 22110  
(703) 368-2101

400 Hz Alternator 1 $\phi$ , 3 $\phi$   
any voltage-current combination  
Ideal for terminal operation,  
timer belt driven

Hammond Transformer Co.

60 & 400 Hz transformers

## Metal Screen and Mesh

Buckbee Mears Co.  
245 E. 6th St.  
St. Paul, MN 55101  
(612) 228-6374

Electroformed Mesh -  
Ni, W, Mo, Au, Cu, S.S.  
up to 90% transmission

Unique Wire Weaving, Inc.  
762 Ramsy Ave.  
Hillside, NJ 07205  
(201) 688-460

Woven screen  
W, Ta, Mo, Pt, Pd, Ti, Cu, S.S.  
Tube gridded lens 100x100x.001 81% Trnsp.

Metex Corporation  
970 New Durham Road  
Edison, NJ 08818  
732-287-0800  
[www.metex.com](http://www.metex.com)

Knitted Wire Mesh  
Plain Steel Galvanized Steel Aluminum Copper  
Tinned Copper, Inconel™, Monel™,  
Hastelloy™, Tungsten, Tantalum  
Platinum, Gold Alloy, Gold Plated Copper  
Silver Plated Copper, Silver Plated Brass, Polypropylene  
Polyethylene Nylon™ Teflon™

Newark Wire Cloth Co.  
351 Verona Ave.  
Newark, NJ 07104  
Tel: (800) 221-4511  
Fax: (210) 483-6315

Woven screen  
Ni, Pt, etc.

## Insulators - AlO<sub>2</sub>, BeO<sub>2</sub>, Porcelain, Tape

Advanced Ceramics Corp.  
11907 Madison Avenue  
Cleveland, OH 44107  
(800) 822-4322 Tel, or  
(218) 529-3900

Boron Nitride in various shapes  
(supplier for McMaster Carr)

Alberox Corp.  
Industrial Park  
New Bedford, MA 02745  
(617) 995-1725  
(617) 995- Fax

AlO<sub>2</sub> custom precision ground  
insulators. Sputter source body,  
cathode insulator

Cole Flex  
91 Cabot St.  
West Babylon, NY 11704  
(516) 249-6150

Fiberglass & other wire coverings  
for magnet wire

Coors Porcelain Co.  
600 9th Street  
Golden, CO 80401  
(303) 278-4000

Alumina, Beryllia, Mullite, Silicon

Du-Co Ceramics Co  
PO Box 278  
Saxonburg, PA 16056  
(412) 353-1511

Steatite, Cordierite, Magnesium oxide, Alumina,  
Forsterite

GTE Wesgo, Dist By:  
Barker Associates  
7330 Chapel Hill Rd.  
Raleigh, NC 27607  
(919) 851-7841

Alumina Ceramics

Lapp Insulator Co.  
Gilbert St.  
LeRoy, NY 14482  
(716) 768-6221

Porcelain station post hi-voltage  
insulators - building hi-voltage  
platforms

McDaniel Refractory Co.  
510 Ninth Ave  
PO Box 560  
Beaver Falls, PA 15010  
(412) 843-8300

Alumina, Mullite, Zirconia  
tubing, rods, insulators  
BeO<sub>2</sub> custom made ports.  
Heat sink (NBC grade K-150 Beryllia)

Permag Magnetics Corp.  
2960 South Ave.  
Toledo, OH 43609  
(419) 385-4621

Rare-earth permanent magnets

Rim, Inc.  
14th Ninth Ave.  
Haddon Heights, NJ 08035  
(609) 547-8041

AlO<sub>2</sub> custom precision ground  
Gen. Ion. 860 Source cathode  
insulator.

Union Carbide Corp.  
120 So. Riverside Plaza  
Chicago, IL 60606  
(312) 454-2000

Boron Nitride

### **Glass, Quartz, Mica**

Asheville-Schoonmaker Mica Co.  
910 Jefferson Ave.  
Newport News, VA 23607

Mica sheet

Esco Optical Products  
171 Oak Ridge Rd.  
Oak Ridge, NJ 07438  
(201) 697-3700

Optically flat windows  
all grades

Kaufman Glass Co.  
P.O. Box 1729  
Wilmington, DE 19899  
(302) 654-9937

Pyrex glass windows  
For vacuum chamber portals

National Scientific Co.  
219 Paletown Rd., P.O. Box 498  
Quakertown, PA 18951  
(215) 536-2577

Quartz-discs, products

Ellis Ceramtek, Inc.  
215 Annandale Center  
Box 5220  
Clinton, NJ 08809  
(201) 735-8400  
(201) 735-4FAX (FAX)

Precision Ceramic Machining  
Ion Source Insulators (Quartz, Sapphire),  
etc.

### **Heaters, Ionizers**

Amperex Electronic Co.  
230 Duffy Ave.  
Hicksville, L.I., NY 11802  
(516) 931-6200

Inconel Coaxial Heater  
900°C Vacuum compatible  
.059" - .079" Dia.

HeatWave Labs, Inc.  
195 Aviation Way, Suite 100  
Watsonville, CA 95076-2069  
Tel: 831-722-9081  
Fax: 831-722-5491  
e-mail: [gunther@cathode.com](mailto:gunther@cathode.com)  
<http://www.cathode.com/>.

Heatwave offers Electron Sources and Guns,  
Ion Sources, Ionizers, Ion Guns, Filaments,  
High Temperature Sample Heaters and Specialty  
Materials for the Vacuum Technology Industry

JMS Southeast, Inc.  
105 Temperature Lane  
Statesville, NC 28677

Custom sheathed Thermocouples & RTDs  
Also MO tubing, mineral insulated cable, etc.

www.jms-se.com  
(704) 873-1835  
(704) 878-6166 (fax)

Semicon Assoc.  
Box 832  
Lexington, KY 40501  
(606) 255-2446

Tungsten cathode dispensers

Philips Electronic Instruments Co.  
Industrial Automation Division  
5110 McGinnis Ferry Road  
Alpharetta, Georgia 30202  
PH (770)751-4480  
FAX (770)751-4450

Thermocoax: raw coax,  
connectorized, sheathed  
thermocouples

Spectra-Mat, Inc.  
100 Westgate Drive  
Watsonville, CA 95076  
(831) 722-4116

Tungsten Ionizers, Dispensers  
UNis source ionizers, hi temp  
ionizer heaters (1500°C)  
ionizers, spherical with potted heater  
W-Cu, Mo-Cu or WHA for alpha/gamma  
Shielding & collimators

Statesville Process Instruments  
111 Temperature Lane  
Statesville, NC 28677-9620  
(704) 873-3626  
(704) 878-6199 (Fax)

Electric heaters, including cartridge, band,  
immersion and tubular heaters.

Temptron Engineering, Inc.  
7823 Deering  
Canoga Park, CA 91304  
(818) 346-4900

Tantalum Coaxial Heater, Ionizer  
1500°C Vacuum compatible  
.060" - .100" Dia

### **Precision Mechanical Components**

PIC  
P.O. Box 1004, Benson Rd.  
Middlebury, CT 06762  
(203) 758-8272

Gears, Racks, etc., miniature  
bearings, ground rod, Geneva  
drives, etc.

Winfred M. Berg, Inc.

Same as PIC

499 Ocean Ave.  
East Rockaway, NY 11518  
(516) 599-5010

Stock Drive Products  
2101 Jericho Turnpike  
New Hyde Park, NY 11040  
(516) 328-3300

Same as Pic & Berg

### **Sulfur Hexafluoride Manufacturers & Suppliers**

Advanced Specialty Gases  
135 Catron Dr.  
Reno, NV 89512  
PH: 775-356-5500  
FAX: 775-356-5571  
Attn: Dave Stein [dave@asg-gas.com](mailto:dave@asg-gas.com)  
Airgas  
866-924-7427

[www.advancedspecialtygases.com](http://www.advancedspecialtygases.com)  
SHIPPING DOMESTIC AND INTERNATIONAL  
CYLINDERS AND BULK 99.95%  
(Distributor for Honeywell)

Distributor (Honeywell)

American Air Liquide  
2700 Post Oak Boulevard  
Suite 1800  
Houston, TX 77056  
877-855-9533

Manufacturer

Brown Industries, Attn: Paul Webb  
253 North Sante Fe  
PO Box 45  
Salina, Kansas 67402-0045  
(913) 827-9646 (Tel)  
(913) 827-5804 (FAX)

Distributor

Concorde Specialty Gases, Inc  
28 Eaton Road  
Eatontown, NJ 07724  
732-544-9899 or 800-818-5109  
Fax: 732-544-9894

Sulfur Hexafluoride Cylinders  
and in Bulk 99.95%

[www.sf6gas.com](http://www.sf6gas.com)  
email: [concorde@sf6gas.com](mailto:concorde@sf6gas.com)

Honeywell  
Fluorine Specialties  
Metropolis, Illinois  
800-522-8001

Manufacturer, Bulk orders over 5000 lbs.  
Ship Direct to Customer  
Smaller Orders need to be  
handled by a distributor

Kali-Chemie Corporation  
41 West Putnam Avenue  
Greenwich, CT 06880  
(203) 629-7900

Importer of SF6

Linde Gas  
575 Mountain Avenue  
Murray Hill, New Jersey 07974  
904-464-8100

Distributor (Honeywell)

Matheson Tri-Gas  
6775 Central Avenue  
Newark, CA 94560  
Phone: 510-793-2559  
Fax: 510-790-6241  
Email: [mtgnewark@matheson-trigas.com](mailto:mtgnewark@matheson-trigas.com)

Distributor (Honeywell)

Praxair  
1-877-772-9247  
Email: [specialtygases@praxair.com](mailto:specialtygases@praxair.com)

Distributor (Honeywell)

Scott Specialty Gases, Inc.  
Tel: 215-766-8861  
Fax: 215-766-0320

### **Vacuum Equipment, Parts, Service**

ASM Co.  
19 Baltimore St.  
Nutley, NJ 07110

2" & 4" Dependex retaining rings  
2" p/n 500006-B9 @ .80

Austin Scientific  
Box 18863  
Austin, TX 78760  
(512) 441-6893  
(512) 443-6665

Used Rebuilt vacuum pumps and systems.  
New CTI compatible cryopumps and Austin,  
compressors  
Rebuilding services for various pump mfgs.

Dependex Vacuum Components  
P.O. Box 280  
146 Batchelder Rd. Seabrook, NH 03874  
Tel: (603) 474-5099  
Fax: (603) 474-5677

Manufacturer of Dependex Fittings

Duniway Stockroom  
1600 N. Shoreline Blvd.  
Mountain View, CA 94043  
(800) 446-8811  
(415) 965-0764 (FAX)

New, Used & Rebuilt Vacuum Pumps,  
Leak Chasers, gauges, etc. New parts  
& vacuum components & supplies.

Hi-Tek Trader  
PO Box 398  
Bradley Beach, NJ 07720-0398  
(908) 974-0757

Clearinghouse for used laboratory equipment  
"Buy - Sell - Trade", has newsletter/catalog  
periodical.

Leak Detection Systems,  
773 Big Tree Drive  
Longwood, FL 32750  
Tel: 407-862-4613  
Fax: 407-862-8723  
Web: www.ldsvacuum.com

New and Used Vacuum hardware, pumps,  
Leak Detectors, service and calibration  
Discount for Educational Institutions

R. G. Ray Corporation  
1425 Payne Road  
Schaumburg, IL 60195  
Tel: (312) 882-4701

2" Dependex quick coupling clamps  
TUNL design # 50233 (\$4.12 ea 1990)

Smalley Steel Ring Co.  
333 Alice St.  
Wheeling, IL 60090  
Tel (312) 537-7600

2" Dependex retaining ring WS-237-S02 (.75)  
4" Dependex retaining ring WS-450-S02 (1.60)

### Miscellaneous - Materials, Hardware, Services

Bacharach, Inc  
625 Alpha Drive  
Pittsburgh, PS 15238  
Tel: (412) 963-2000  
Fax: (412) 963-2091

Mfgr's of CO2 and O2 measuring devices: "Fyrite"  
Simple, inexpensive means for checking tank gas  
composition. Sold by McMaster Carr, WW  
Grainger, Fisher Scientific, others.

American Boa  
1420 Redi Road  
Box 1301  
Cumming, GA 30130  
Tel (404) 889-9408  
Fax (404) 889-0661

Manufacturer of Stainless metal Bellows, hose  
& High Vacuum Beam lines

C. S. Osborne & Co.  
Harrison, N.J.  
Tel: 201-483-3232  
Fax: (201) 484-3621

#525, 17 ga carpet needles  
for Corona Points  
Hand and Specialty tools

Betar, Inc.  
P.O. Box 896  
Summerville, NJ 08876  
(201) 388-3186

Precision Deep Drilling  
Stripper canal

John M. Dean, Inc.  
16 Mechanics Street  
Putnam, CT 06260-0924  
Tel (203) 928-7701  
Fax (203) 928-1406

Pins, Points, Needles  
Source for replacement corona needles

DLDS  
1190 Miraloma Way  
Suite U  
Sunnyvale, CA 94086  
(408) 737-8111

Cryogenics  
100 KV electrical isolation between  
compressor and cold head

E G & G Sealol  
50 Sharpe Drive  
Cranston, RI 02920  
(401) 463-8700  
(401) 463-6198 FAX

Pressure rated vacuum bellows  
good for accelerator tube connections

Engineering Sales Associates  
P.O. Box 35514  
Charlotte, NC 28235  
Tel: (800) 532-0467  
Fax: (704) 523-8585

Activated Alumina for gas dryers  
100# drum 1/8" mesh, grade H-151  
round pellets (not crumbles)  
(about \$1.65/lb)

Epoxy Technology, Inc.  
14 Fortune D  
P.O. Box 567  
Billerica, MA 01821  
(617) 667-3805

Optical Coupling Epoxies

Lamp Technology, Inc.  
141A Central Ave.  
Farmingdale, NY 11735  
(516) 454-6464

Replacement LED's for T 1-3/4 midget  
flange lamps (HVEC console)  
Yellow 6MF-Y-28P  
Green 6MF-G-28P ≈\$3.00 per  
Red 6MF-R-28P

Lenape Forge, Inc.  
Attn: Mr. Wilson  
1280 Lenape Rd  
West Chester, PA 19382  
(215) 793-1500

Delta Gasket  
FN Acc. Tank Door 24" Buna N 300lb ΔGasket  
(\$60.10)  
Recirculator Flange 18" Buna N 300lb ΔGasket

Ernest F. Fullam, Inc.  
900 Albany Shaker Road,  
Latham, NY 12210  
(518) 785-5533  
(518) 785-8647 (FAX)

"Accessories for Microscopy", release  
agents, Formvar, Collodian, evaporation  
supplies, Carbon Rods, & much more.

Multiflex Springwire Corp.  
P.O. Box 148-T  
Clifton Heights, PA 19018  
(215) 534-0144 (orders)  
(215) 532-6186 (FAX)

Tube to Column Springs  
(72¢ per, 1986)  
(215) 622-0223

Norco, Inc.  
P.O. Box 405  
Georgetown, CT 06877  
(203) 544-8301

Ball Reversing Lead Screw

Robertshaw Tennessee, Inc.  
2318 Kingston Pike  
P.O. Box 400  
Knoxville, TN 37901-0400  
Tel: (423) 546-0550  
Fax: (423) 544-5125

Formed and Welded Edge Metal Bellows  
Stock and Custom Types

Servometer Corporation  
501 Little Falls Road  
Cedar Grove, NJ 07009-1291  
Tel: (201) 785-4630  
Fax: (800) 785-0756 or  
(201) 785-0756

Miniature Metal Bellows and Electroforms  
also Gold plated Bellows Contacts, and  
Bellows couplings

Safety Lite Corp.  
4150-A Berwick Rd.  
Bloomsburg, PA 17815  
(717) 784-4344

Tritiated Titanium

Shell Chemical Co.  
One Shell Plaza  
Houston, TX 77001  
(713) 241-6161

Teepol 601 Detergent  
Thin film-substrate release agent

Transene Corporation  
Danvers Industrial Park  
10 Electronics Avenue  
Danvers, MA 01923 USA  
Phone: 978-777-7860  
Fax: 978-739-5640  
Web: [www.transene.com](http://www.transene.com)

Fields of interest encompass dielectrics, capacitors,  
photoresist, materials, adhesives, electrophoretic  
cathode coatings, conformal coatings  
chemical etchants, electrolytic and electroless  
plating chemistries, encapsulants  
and high purity cleaning compounds