



Certified to ISO-9001  
Accredited to ISO-17025

...because a µg of understanding is worth a ton of guessing...

**Price List Effective: Dec. 2006**

**ANALYTICAL SERVICES**

**SURFACE ANALYSIS,**  
Auger Electron Spectroscopy (JEOL Jamp10S), 50nm resolution, w/SEM function and X-ray Analysis, Depth profiles collected using rotational depth profiling. Digital imaging. \$ 300/hr

**SCANNING ELECTRON MICROSCOPY** - Field Emission – JEOL JSM-6300F \$ 300/hr

**SCANNING ELECTRON MICROSCOPY** JEOL- 840 with EDS x-ray, digital imaging (computer image files sent by email or disk- no charge!). \$ 250/hr

**ELECTRON MICROPROBE,** with fully automated (4) wavelength & energy-dispersive x-ray analysis with detectabilities to 10ppm. SEM resolution 70Å. Digital images & data (image files & report sent by email or disk- no charge!). \$ 300/hr

**LABORATORY SERVICES:** \$ 150/hr  
**Metallography-** Custom sample preparation, mounting, sections, plating thickness prep, etc.  
**Optical Microscopy-** Bench & Stereo.  
**Profilometry-** Sloan Dektak 3030 for surface roughness, step heights, etc. \$50/scan (min. 3)  
**Microhardness-** Vickers indentation \$150/hr

**PRODUCTS**

Digital imaging, stage automation, EPMA- P.O.R  
Pre-owned SEMs and Electron Probes- P.O.R

**COUNTER ROTA-CUTTER**  
 Buehler ISOMET (CRC-B 901) \$1250  
 Buehler ISOMET w/ Hollow Chuck, CRC-BH901 \$1650  
 LECO VC-50 (CRC-L901) \$1250  
 LECO VC-50 (CRC-LH901) w/ Hollow Chuck \$1250  
 Struer's Minitom (CRC-S901) \$1430  
 Struer's Minitom (CRC-SH901)w Hollow Chuck \$1830  
 Hollow Chuck Vise attach. for any mfg. saw \$ 450

**SPECIMEN HOLDER:** TRH (JEOL 840/6400) \$ 845  
(for 2- 1 1/4" samples w/o JEOL airlock ext.)

**Terms:** Foreign delivery order (must be prepaid). Payment to be made against a U.S. bank in U.S. dollars or letter of credit. Payment is net 30 days subject to credit approval. Late fee of 1.5%/month for delinquent accounts. Shipping: FOB Topsfield, Ma. Delivery: Stock to 30 days.

American Express, VISA, and Master Charge, & Corporate P-cards gladly accepted.

**PRODUCTS, continued**

**ION SPUTTER CALIBRATION STANDARDS**  
 ISC-SIO2-200 SiO<sub>2</sub> (~200Å) on 4" Si wafer \$ 475  
 ISC-SIO2-300 SiO<sub>2</sub> (~315Å on 4" Si wafer \$ 475  
 ISC-SIO2-1.2K SiO<sub>2</sub> (~1200Å ) on 4" Si wafer \$ 475  
 ISC-SIO2-5K SiO<sub>2</sub> (~5000Å) on 4" Si wafer \$ 475  
 ISC-TA2O5 Ta<sub>2</sub>O<sub>5</sub> on Ta, ~1000Å (37mm<sup>2</sup>) \$ 300  
 NiCr-3 12 layers Cr(60nm)/Ni(60nm) on Silicon \$ 600  
 .....(1cmX3cm)  
 ISC-Si3N4-1000 Si<sub>3</sub>N<sub>4</sub> (~1000Å) on Si (1cmX3cm) \$ 300

**ULTRA-HIGH VACUUM ELEMENTAL STANDARDS**

	Without standards	With std.
UHV-EL-6 Mount for 6 elements	\$ 120	\$ 570
UHV-EL-9 Mount for 9 elements	\$ 150	\$ 870
UHV-EL-12 Mount for 12 elements	\$ 180	\$ 1170
UHV-EL-15 Mount for 15 elements	\$ 210	\$ 1470
UHV-EL-18 Mount for 18 elements	\$ 240	\$ 1770
Mount for 37 elements	\$ 375	\$ 3400
(note: the UHV-EL-37 with std. is shipped under vacuum in a VAC-U-STORR (VUS-2) desiccator)		
UHV-EL-37PI PHI Mount adapters:		\$ 300
UHV-EL-37VG for VG Instruments		\$ 300
UHV-EL-37AM for Amray, FEI & LEO (aluminum- 1").		\$ 100
UHV-EL-40RE Replacement elements . . . (your choice, or singly)	\$ 90	
UHV-EL-Diamond (1mm) crystal, polished.		\$ 140
UHV-EL-SRM482 (5) NIST Cu: Au wires . .		\$ 200
UHV-EL-AI-Cu X-ray Calibration. std.(NIST trace.)		\$ 140

**VAC-U-STORR (VUS) Desiccators**  
 VUS-J-S (Glass) \$ 120  
 VUS-J-M (Glass) \$ 240  
 VUS-J-L (Glass) \$ 300  
 VUS-SS-4.5 4" Conflat flange, no top \$ 410  
 VUS-SS-4.63 4 5/8" "Conflat flange, no top \$ 430  
 VUS-SS-6 6" Conflat flange, no top \$ 450  
 VUS-SS-8 8" Conflat flange, no top \$ 705  
 ..call for prices on covers, gaskets & misc. parts.

**Traceability accredited to ISO-17025, ACLASS Registrar**

	MRS-3	MRS-4
<b>MAGNIFICATION REFERENCE STANDARDS</b>		
MRS-3 or 4 NT (not traceable & without retainer)	\$ 490	\$ 990
MRS-3 or 4 XY (XY traceable & without retainer)	\$ 1500	\$ 2100
MRS-3 or 4 XYZ (XYZ traceable & without retainer)	\$ 1800	\$ 2400
MRS-SEM/R Retainer (1" OD X 1/8")	\$ 100	\$ 100
MRS-OM/R (optical microscope adapter).	\$ 100	\$ 100
MRS-3mm (for TEM, etc.) X 0.25mm thick	\$ 150	\$ 175
MRS-3 or 4 XY/R Re-calibration (cleaning included)	\$ 1000	\$ 1100
MRS-3 or 4 XYZ/R Re-calibration (cleaning included)	\$ 1300	\$ 1400
MRS-3 or 4C (Cleaning only)	\$ 150	\$ 150
Micro-Ruler, traceable only	\$ 1200	
MRS-5NT (not traceable)	\$ 3000	
MRS-5XY (XY traceable)	\$ 4900	

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