ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Princeton Applied Research / EG&G M1463* at our website: *Click HERE*

The soft touch... the all new OMA® III family



The newest Optical Multichannel Analyzer system from EG&G Princeton Applied Research is the most powerful ever created. The Model 1460 OMA® III with a soft touch screen can be operated by simply pointing. Plug-in controller cards support all types of array detectors. The 68000-based computer can address megabytes of memory and perform complex calculations on the spectra stored on the two floppy disks. Most important is the ease with which research in Raman, LC, Radiometry and Emission Spectroscopy can be performed. Options include the BASIC programming language and hard disk.

The new Model 1461 Detector Interface is ideal for labs which need just the essence of fast parallel detection. Easily controlled from any computer through RS232C or GPIB, it also boasts a 68000 microprocessor and expandable RAM.

Simply remarkable—the new OMA III family.



EG&G PRINCETON APPLIED RESEARCH

P.O. BOX 2565 • PRINCETON, NJ 08540, U.S.A. • 609/452-2111 • TELEX 843409

See us March 27-29 at the 1984 APS Show In Detroit, MI Booths 54, 55, 56

656

CIRCLE 64 ON READER SERVICE CARD

Briefs

Mass Spectral Characterization of Oxygen-Containing Aromatics with Methanol Chemical Ionization 546

Isomeric oxygen-containing aromatics, including phenols, ethers, and alcohols, and compounds containing more than one oxygen atom are differentiated. Oxygen-substituted polycylic aromatic hydrocarbons are characterized in a coal-derived liquid.

Michelle V. Buchanan, Analytical Chemistry Division, Oak Ridge National Laboratory, Oak Ridge, Tenn. 37831 *Anal. Chem., 56 (1984)*

Interlaboratory Isotopic Ratio Measurement of Nanogram Quantities of Uranium and Plutonium on Resin Beads by Thermal Ionization Mass Spectrometry 550

Forty-five of 70 measurements of major isotopic ratios of unknown samples prepared from standard reference materials are within 0.3% of the absolute value. Mass fractionation is the principal source of imprecision and inaccuracy.

J. D. Fassett* and W. R. Kelly, National Measurement Laboratory, Center for Analytical Chemistry, Inorganic Analytical Research Division, National Bureau of Standards, Washington, D.C. 20234 *Anal. Chem., 56 (1984)*

Characterization of Isotopically Labeled Coal Liquefaction Solvents and Products by Deuterium and Carbon-13 Nuclear Magnetic Resonance Spectrometry 557

Deuterium-induced carbon-13 NMR isotopic shifts, deuterium NMR, and the attached proton test are useful tools for the characterization of ^{13}C- and ^{2}H-labeled coal liquefaction solvents and the resulting products.

Donald C. Young*, Robert I. McNeil, Donald C. Cronauer, Raphaelle G. Ruberto, and Laurine G. Galya, Gulf Research and Development Co., Pittsburgh, Pa. 15230 *Anal. Chem., 56 (1984)*

Effect of Random Experimental Error on the Generalized Standard Addition Method 562

The effect of experimental error on the final results of multicomponent analysis using the generalized standard addition method is investigated. Recommendations for optimally precise analysis are made.

Mark G. Moran and Bruce R. Kowalski*, Laboratory for Chemometrics, Department of Chemistry, University of Washington, Seattle, Wash. 98195 *Anal. Chem., 56 (1984)*

Portable Generator for On-Site Calibration of Peroxyacetyl Nitrate Analyzers 569

Peroxyacetyl nitrate (PAN) is synthesized at levels of 2–400 ppb in a constant-output portable photochemical flow reactor. Reactor output is determined by ion chromatography after alkaline hydrolysis of PAN to acetate.

Daniel Grosjean*, Kochy Fung, John Collins, Jeffrey Harrison, and Edmund Breitung, Environmental Research & Technology, Inc., 2625 Townsgate Road, Westlake Village, Calif. 91361 *Anal. Chem., 56 (1984)*

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP