

THE **Indicator**

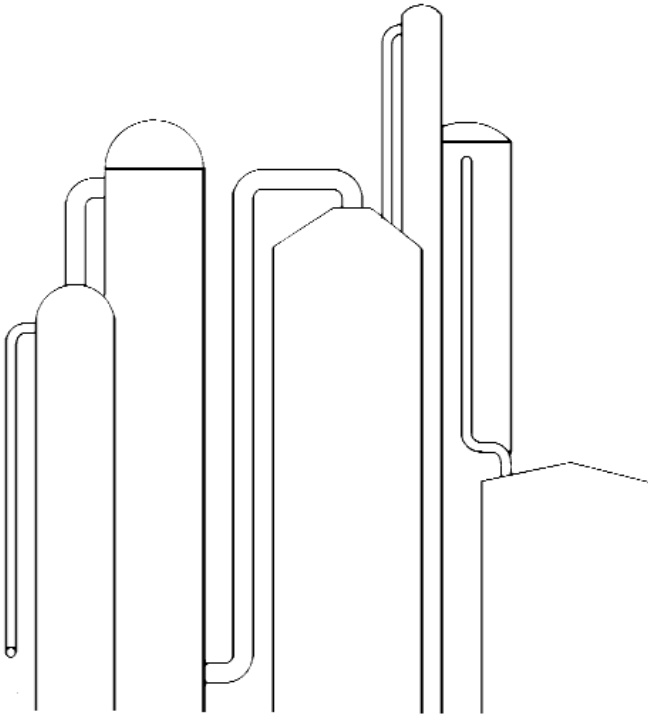
JUNE 2011

Vol. 92 • No. 6

ISSN0019-6924

50th Regional Buyer's Guide

See pages 24 - 35.



RECYCLE THIS PAPER

PERIODICALS POSTAGE

www.theindicator.org

www.njacs.org

www.newyorkacs.org

STOP WASTING \$\$\$ on vacuum pumps!!

Rebuilding is smart.

A new pump costs **four times** what rebuilding costs.

Rebuilding is easy.

Just call 978 667 2393 for service second-to-none.

Mass-Vac does the job right.

- Factory trained technicians.
- Rebuilt and new pumps in stock.
- No-hassle parts and labor guarantee.
- Complete line of filtration and trap systems.

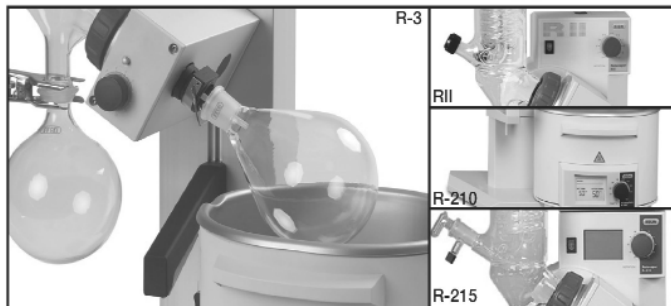
Because a really old, really healthy vacuum pump is a beautiful thing!



Mass-Vac, Inc.

247 Rangeway Road ▪ PO Box 359 ▪ North Billerica, MA 01862
978 667 2393 Fax 978 671 0014 sales@massvac.com www.massvac.com

A BUCHI for every budget!



The Rotavapor® R-3 provides a value-priced high-quality BUCHI alternative to unreliable imitation brands for cost-conscious customers. Now, there is no longer a reason to compromise quality, safety, or peace of mind when choosing a rotary evaporator – there is a Buchi for every budget!

BUCHI Corporation
1-877-MYBUCHI
or visit www.mybuchicom



Quality in your hands

THE INDICATOR**Manager / Editor** - LINDA ATKINS

1 Milbark Court West, Homosassa, FL 34446

973-981-4383; Fax 352-503-7613

linatkins@tampabay.rr.com**Advertising Manager** - VINCENT GALE

MBO Services, PO Box 1150

Marshfield, MA 02050-1150 • 781-837-0424

vincegale@mboervices.net**INDICATOR COMMITTEE****Chair, DR. LES McQUIRE**

17 Crown Drive, Warren, NJ 07059

908-334-5473, Les@LesMcQuire.org**New York Section Rep.****DR. NEIL JESPERSEN**

Chemistry Dept., St. John's University

8000 Utopia Parkway, Jamaica, NY 11439

718-990-5221, jespersn@stjohns.edu**North Jersey Section Rep.****DR. ANITA BRANDOLINI**

TAS, Ramapo College, 505 Ramapo Valley Rd.,

Mahwah, NJ 07430 • 201-684-7753

abrandol@ramapo.edu**Web Masters**

NY Section - DR. BRIAN GIBNEY

postmaster@newyorkacs.org

NoJ Section - PAUL TUKEY

tukey@verizon.net**NEW YORK SECTION**<http://newyorkacs.org>**Chair, DR. HIROKO I. KARAN**

Department of Physical, Environmental and

Computer Sciences, Medgar Evers College, CUNY

1638 Bedford Avenue, Brooklyn, NY 11225

718-270-5168; Fax 718-270-6197

hiroko@mec.cuny.edu**Chair-Elect, DR. JAIMELEE IOLANI RIZZO**

Department of Chemistry and Physical Science

Pace University, 1 Pace Plaza, New York, NY 10038

212-346-1761 • Fax 212-346-1256

jrizzo@pace.edu**Secretary, DR. BRIAN GIBNEY**

Dept. of Chemistry, Brooklyn College - CUNY

2900 Bedford Avenue, Brooklyn, NY 11210

718-951-5000 x6636 Fax: 718-951-4607

brg33@newyorkacs.org**Section Office**

St. John's University, Chemistry Dept.

8000 Utopia Parkway, Jamaica, NY 11439

516-883-7510; Fax 516-883-4003

njesper1@optonline.net**NORTH JERSEY SECTION**<http://www.njacs.org>**Chair, DR. JIWEN CHEN**

Bristol-Myers Squibb Company, 3B 0.01

311 Pennington-Rocky Hill Rd., Pennington, NJ 08534

609-818-6319

jiwen.chen@yahoo.com**Chair-Elect, DR. AMBER CHARLEBOIS**

Fairleigh Dickinson University

285 Madison Ave., M-SB1-01, Madison, NJ 07940

973-443-8761

charleb@fd.edu**Secretary, BETTYANN HOWSON**

49 Hillside Avenue, Madison, NJ 07940-2612

973-822-2575; chemphun@optonline.net**Section Office**

49 Hillside Avenue, Madison, NJ 07940-2612

973-822-2575; chemphun@optonline.net**THE Indicator** 

The monthly newsletter of the New York & North Jersey Sections of the American Chemical Society. Published jointly by the two sections.

CONTENTS

Advertisers Index	36
BUYER'S GUIDE:	
Products & Services	24-27
Company Listings	28-35
Call for Nominations	22-23
New York Meetings	7
Nichols Symposium Review	8-11
North Jersey Meetings	16-18
Professional/Product Directory	36

EDITORIAL DEADLINES

September	July 15
October	August 15
November	September 15
December	October 15
January 2012	November 15
February	December 15
March	January 15, 2012
April	February 15
May	March 15
June	April 15

Visit Uswww.TheIndicator.org

The Indicator (ISSN0019-6924) is published monthly except July and August by the New York and North Jersey Sections of the American Chemical Society, Office of Publication, 1 Milbark Court West, Homosassa, FL 34446. **Periodicals Postage Paid at Homosassa, Florida and at additional mailing offices.**

POSTMASTER: Send address changes to American Chemical Society, Department of Member and Subscriber Services, *THE INDICATOR*, P.O. Box 3337, Columbus, OH 43210, or e-mail: service@acs.org.

All views expressed are those of the editor and contributors and do not necessarily represent the official position of the New York and North Jersey Sections of the American Chemical Society unless so stated. **Subscription price included in dues paid by New York and North Jersey Section members. Distributed electronically to members through the website www.TheIndicator.org and monthly emailings. Non-members are invited to read it online. Members should register their email addresses at www.acs.org/update.**

Address advertising correspondence to Advertising Manager. Other correspondence to the Editor.

June Calendar

NEW YORK SECTION

Thursday, June 2, 2011

Long Island Subsection Awards Dinner
See page 7.

Friday, June 3, 2011

New York Section Board Meeting
See page 7.

Deadline for items to be included in the September 2011 issue of *The Indicator* is July 15, 2011.

NORTH JERSEY SECTION

Thursday, June 2, 2011

NoJ Teacher Affiliates Executive Meeting
See page 16.

Thursday, June 2, 2011

Careers in Transition
See page 16.

Sunday-Thursday, June 5-9, 2011

ACS 42nd National Organic Symposium
See page 17.

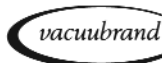
Sunday, June 12 or 26, 2011

Younger Chemists Committee Picnic
See page 18.

Wednesday, June 15, 2011

NMR Topical Group
See www.njacs.org.

The Indicator is posted to the web on the 15th of the previous month at www.TheIndicator.org



Five Decades of Vacuum Innovation

Instant Vacuum Capacity

The VACUU • LAN[®] Mini-Network

- One pump serves 3 – 6 users
- Cross-talk protection
- No construction/installation
- Upgradeable to electronic vacuum control at each port

Simple filtration to demanding evaporations

Details at www.vacuu-lan.com



VACUUBRAND, INC.
888-882-6730

www.vacuubrand.com
info@vacuubrand.net

THIS MONTH IN CHEMICAL HISTORY

By *Harold Goldwhite*, California State University, Los Angeles • hgoldwh@calstatela.edu

In this column I continue discussing the booklet by Jon Eklund of the Department of Science and Technology of the Smithsonian Institution published by the Smithsonian Institution Press in 1975 and titled "The Incomplete Chymist: Being an Essay on the Eighteenth Century Chemist in his Laboratory, with a Dictionary of Obsolete Chemical Terms of the Period". The texts of the time pay much attention to fire and furnaces, the main experimental tools of chemists of the period. At least two furnaces of different sizes were recommended, and for gentle heating the water bath was used. This is called *balneo mariae* in Latin – compare the modern French term *bain marie* – named after the (mythical?) female alchemist Maria the Jewess, often identified as Miriam, the sister of Moses.

Temperatures could by now be measured with some reproducibility thanks to thermometers modeled after those of Daniel Fahrenheit (1686 – 1736). But vessels in which to heat materials under investigation posed challenges. Soft glass was fragile and subject to breakage by thermal shock – and it was expensive in large sizes. There are obvious drawbacks to other materials used for flasks and beakers including metals (reactive), and earthenware (porous and fragile). So glass was the material of choice for all its drawbacks, and vessels of many different shapes and sizes are illustrated in eighteenth century texts. Some of the most complex and attractive are those designed for distillation, particularly the alembic and pelican. There was, of course, no rubber tubing to connect vessels. They had to be fitted glass to glass and sealed with a material called a lute and there were about as many formulations of lutes as there were chemists! Some were made of strips of cloth soaked in flour paste. Somewhat stronger were strips of animal bladders soaked in water. Clays were also used as lutes though they could dry out and crack after a long exposure to heat. And then there were alchemical-sounding exotics such as "soft cheese, Lime, and Rye flower".

Distillation, mentioned above, and crystallization were widely applied to purification of products, and the techniques are those with which we are familiar. Filters might be made of cheesecloth or, if finer particles were to be separated, of unsized commercial paper.

The second part of Eklund's title promises "a Dictionary of Obsolete Chemical Terms of the Period" and I cannot resist closing with some examples that will help my readers in their struggles with eighteenth century chemical texts. The reform of chemical nomenclature was still in the future, at the end of the eighteenth century, and trivial names held sway.

ACID AIR: hydrogen chloride gas

ACID OF AMBER: succinic acid

ACID OF APPLES: malic acid

ACID OF BARBERRY: malic acid (are you confused yet?)

ACID OF MILK: lactic acid

ACID OF SORREL: oxalic acid

ACID OF SUGAR: oxalic acid (oh, well!)

ALEXIPHARMIC: remedy or preservative against poison

BERTHOLLET'S SALT: potassium chlorate (which was used in a disastrous trial by Berthollet and Lavoisier to replace potassium nitrate in gunpowder; several workers were killed in the explosion, but Berthollet and M. and Mme. Lavoisier escaped unhurt.)

BUTTER OF ARSENIC: arsenic trichloride

CAUSTIC PONDEROUS EARTH: hydrated barium hydroxide

HORN SILVER: fused silver chloride

MARTIAL BALLS: a mixture of iron filings and potassium hydrogen tartrate

Etc.

We have to thank De Morveau, Berthollet, Lavoisier and Fourcroy for their publication at the end of the eighteenth century that reformed chemical nomenclature along lines that we still follow.

JUNE HISTORICAL EVENTS IN CHEMISTRY

By Leopold May, The Catholic University of America, Washington, DC

June 1, 1936

Seventy-five years ago in 1936, the paper "Electric Moments of Molecules in Liquids" by Lars Onsager, published in the *Journal of the American Chemical Society* (1936, 58, 1486-1493), was received on this day.

June 3, 1873

Seventy-five years ago in 1936, Otto Loewi shared the Nobel Prize in Physiology or Medicine with Henry H. Dale for their discoveries relating to chemical transmission of nerve impulses. He was born on this date.

June 4, 1886

One hundred and twenty-five years ago on this date, Henri Moissan isolated fluorine by electrolysis of solution of KHF_2 in anhydrous HF.

June 7, 1811

Two hundred years ago on this date, James Y. Simpson was born. He was an obstetrician who was first to use chloroform as an anesthetic and introduced the use of ether in Great Britain.

June 11, 1842

Carl von Linde constructed equipment by which air could be liquefied on commercial scale in 1895 and developed a methyl ether refrigerator in 1874 and an ammonia refrigerator in 1876. He was born on this date.

June 13, 1827

Charles Goessmann, who was born on this date, made an analysis of peanuts and did research in chemistry of sorghum and sugar beets.

June 15, 1754

Juan José D'Elhuyar, the discoverer of tungsten from wolframite ore in 1783, was born on this date.

June 17, 1832

One hundred and fifty years ago in 1861, William Crookes, discovered thallium (Tl, 81). He separated uranium into two parts, naming the new one, uranium X and was born on this date.

June 18, 1932

Twenty-five years ago in 1986, Dudley R. Herschbach shared Nobel Prize in Chemistry with Yuan T. Lee and John C. Polanyi for their contributions concerning the dynamics of chemical elementary processes. He developed molecular beams to study products of collisions that occur and was born on this date.

June 20, 1886

One hundred and twenty-five years ago on this date, James R. Partington was born. He was a researcher on specific heat of gases and a historian of chemistry.

June 24, 1835

Johannes Wislicenus, who proposed geometric isomers and synthesized acetoacetic esters, was born on this day.

June 25, 1911

One hundred years ago on this date, William H. Stein, a researcher in enzyme chemistry, was born. He shared the Nobel Prize in Chemistry in 1972 with Stanford Moore for their contribution to the understanding of the connection between chemical structure and catalytic activity of the active centre of the ribonuclease molecule and Christian B. Anfinsen for his work on ribonuclease, especially concerning the connection between the amino acid sequence and the biologically active conformation.

June 27, 1854

Abraham Gesner patented a process for obtaining kerosene by distillation on this date.

June 29, 1787

Nils G. Sefstrom, one of the discoverers of vanadium (V, 23) in 1830, was born on this day.

Additional historical events can be found at Dr. May's website, <http://faculty.cua.edu/may/Chemistrycalendar.htm> or This Week in Chemical History on the ACS website, <http://www.acs.org/whatischemistry>.

New York Meetings

www.newyorkacs.org

NEW YORK SECTION BOARD MEETING DATES FOR 2011

The dates for the Board Meetings of the ACS New York Section for 2011 were chosen and approved at the June 2010 Board Meeting. The meetings are open meetings; all are welcome. If non board members would like to attend the meeting, please let the New York Section office know by emailing Mrs. Marilyn Jespersen at njesper1@optonline.net or calling the office at (516) 883-7510. Refreshments are served at 6:00 PM and the meeting is held at 6:45 PM.

The 2011 Board Meetings will be held on the following Fridays in the library of St. John's University, 8000 Utopia Parkway, Jamaica, NY. Dr. Hiroko I. Karan will chair the meetings.

Friday, June 3, 2011

Friday, September 23, 2011

Friday, November 18, 2011



LONG ISLAND SUBSECTION

22nd Annual LI-ACS High School Awards

Guest Speaker: Dr. Paris Svoronos
Queensborough
Community College

Topic: "The History of Dyes through the Centuries"

Dyes are as old as human civilization. Dyestuffs have been developed and become more sophisticated since the primitive use of charcoal and egg yolk. A summary of the various milestones as recorded by historical documentation, including the bible, will be presented with emphasis on the social and political significance of dyes in different cultures.

Learn more about the
New York Section at
www.NewYorkACS.org

Awards will be presented to students receiving the highest mark in chemistry from Suffolk, Nassau and Queens high schools. Dinner for each nominee and a guest is followed by an Awards ceremony at which each nominee is presented with a plaque by the Chair of the Long Island Subsection.

Date: Thursday, June 2, 2011

Time: 6:00 PM

Place: SUNY Old Westbury
Student Union Multipurpose Room

Contact: Ralph Stephani at
stephanr@stjohns.edu or 718-990-5215.

For details and directions, visit the High School Awards page of the LI-ACS website at http://www.newyorkacs.org/meetings/li_awards/island_awards.php.



EMPLOYMENT AND PROFESSIONAL RELATIONS COMMITTEE OF THE NEW YORK SECTION

To Human Resources Departments in Industry and Academia

The Employment and Professional Relations Committee maintains a roster of candidates who are ACS members seeking a position in the New York metropolitan area. If you have job openings and would like qualified candidates to contact you, please send a brief job description and educational/experience background required to hessytaft@hotmail.com.

Candidates from our roster who meet the requirements you describe will be asked to contact you.



SURPRISE

our editor by calling and saying you appreciate the quality and content of our newsletter. Our editor works hard to maintain a publication of interest to our membership. Oh, and by the way, you could also give credit to our advertisers who financially support us.

WILLIAM H. NICHOLS SYMPOSIUM AND AWARD BANQUET

The William H. Nichols Medal for 2011 was awarded to Professor Julius Rebek, Jr. of The Scripps Research Institute on March 18, at the Crown Plaza Hotel, White Plains, NY. Professor Rebek received the Nichols Medal award for 'Advances in the Science of Molecular Recognition and Encapsulation'. The 105th gold medal and bronze replica were inscribed with this citation and were presented at the Nichols Medal Award Dinner. In attendance were 250 people including industrial chemists, students and faculty from New York Section colleges and universities.



The William H. Nichols Distinguished Symposium, that preceded the award dinner, was titled "Chemistry on the Nanoscale" and featured internationally known speakers: Prof. Samuel J. Danishefsky (Memorial Sloan-Kettering Cancer Center and Columbia University), Prof. Stephen L. Craig (Duke University), Prof. Colin Nuckolls (Columbia University) and Prof. Rebek who gave the Award Lecture titled "Molecular Behavior in Small Places." Prof. JaimeLee Iolani Rizzo, Chair-elect of the New York Section, emceed the symposium, introducing each speaker. This excellent symposium was enthusiastically received by all attendees, many of whom attended the social hour and the award dinner that followed.

At the dinner, Prof Hiroko Ito Karan, 2011 Chair of the ACS New York Section, welcomed the guests and told the story of the History of the Nichols Medal; Prof Neil D. Jespersen, ACS Board of Directors, brought greetings and congratulations from the American Chemical Society; and Prof. Ken N. Houk introduced his friend and colleague, Prof Rebek, to the guests. Prof. Houk was accompanied by his wife, Prof. Robin Garrell. Chair Karan and Mr. David Nichols then awarded the gold and bronze medals and \$5000 to Medalist Prof. Rebek, who was accompanied by his wife, Prof Mitra Rebek. In his address, Prof. Rebek described the superb quality of The Scripps Research Institute and encouraged students to consider applying to Scripps. He then enjoyed autographing the guests' dinner booklets and speaking with them.

Many generations of the Nichols family also enjoyed this gala event. The New York Section was honored to have as guests: Mr. David Nichols (President of the Nichols Foundation and great grandson of Dr. William H. Nichols); Mr. Charles Nichols, Mr. C. Walter Nichols IV and Mrs. Sandra Nash (great, great grandsons and daughter) and three great, great, great grandchildren. It is truly a great pleasure to have so many generations of the Nichols family present at this special New York Section event.

At the Nichols Meeting, the New York Section also celebrated the International Year of Chemistry. A special table held IYC souvenirs – booklets, stickers and IYC pins that were given to all attendees. Mrs. Joan Laredo Liddell (IYC Committee Chair for the New York Section) enthusiastically spoke to the audience about the meaning of IYC and encouraged everyone to share their love and knowledge of chemistry with their neighbors and friends. Dr. Anne O'Brien encouraged everyone to wear their IYC pin throughout this special year. The symposium concluded with a surprise presentation of IYC ties to the distinguished speakers and drawings for fifteen IYC tee shirts. The Section greatly appreciates National ACS' generous donation of IYC souvenirs.

The evening concluded with an entertaining Magic Show given by Professor Koji Nakanishi who received the Nichols Medal in 1992. Thank you Professor Nakanishi.

The Nichols Medal Award was established in 1902 by Dr. William H. Nichols to honor a chemical scientist for outstanding original research and was first awarded in 1903. Dr. Nichols, a charter member of the American Chemical Society and its president in 1918 and 1919, maintained a deep commitment to research and development and to the importance of supporting science education and students of chemistry. Since its inception, through an endowment fund, the New York Section administers the award. It has been perpetuated by the generosity of Dr. Nichols, his family and the Nichols Foundation, Inc. The William H. Nichols Medal is the first award in chemistry of the American Chemical Society.

(See pictures on next 3 pages.)



Dr. Julius Rebek accepted the William H. Nichols Medal for 2011 from Dr. Hiroko Karan, Chair of the New York Section, along with a bronze replica and \$5000.

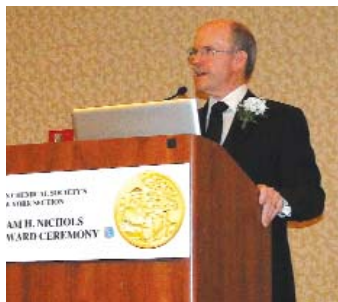
(All photos courtesy of Marilyn Jespersen)



Mr. David Nichols (right), President of the Nichols Foundation, Inc., offered Dr. Rebek best wishes and congratulations on receiving the Nichols award. The Nichols Foundation supports the attendance of two undergraduate college chemistry students and one faculty member from all of the institutions of higher learning within the New York Section.



Before the Symposium — A Group Photo: Chair Dr. Hiroko Karan, Dr. Stephen Craig, Dr. Colin Nuckolls, Medalist Dr. Rebek, Dr. Samuel Danishefsky and Chair Elect Dr. JaimeLee Iolani Rizzo.



Dr. Ken Houk, dear friend and colleague of Dr. Rebek, presented the Medalist to the guests at the dinner with a very nice introduction.



The banquet was enjoyed by many New York Section Board Members, Former Chairs, and Committee Chairs including from left to right: Dr. Peter Corfield, Mrs. Jean Delfiner, Dr. Vijaya Korlipara, Dr. Brian Gibney, Mr. George Rodriguez, Dr. David Rahni, Ms. Vicki Silby and Dr. Stephen Goldberg.



Good friends gather for a photo together. Left to right: Drs. Julius Rebek, Dr. Mitra Rebek, Dr. Robin Garrell and Dr. Ken Houk. Dr. Ken Houk had the honor of introducing Dr. Rebek to the guests at the Medal Award dinner.



Dr. Neil Jespersen, as a member of the Board of Directors of the ACS, represented the President of National ACS and brought greetings and congratulations from the American Chemical Society.



At the Reception and Dinner, members of the Nichols Family joined the banquet festivities. From left to right: Dr. Robin Garrell, Dr. Ken Houk, Dr. Hiroko Karan, Dr. Stephen Craig, Whitney Nash, Dr. Mitra Rebek, Dr. Julius Rebek, Gardiner Nash, Dr. Neil Jespersen, Dr. JaimeLee Rizzo, Mr. Steven Rizzo, and Mrs. Sandra Nichols Nash.



Chair Hiroko Karan presented IYC neckties, as a thank you, to the Distinguished Symposium speakers.



Prof. Richard Cassetta (NY Section Councilor) and Dr. Koji Nakanishi, Nichols Medalist in 1992. After the award dinner, Dr. Nakanishi entertained the guests with his very special Magic Show.



The International Year of Chemistry was celebrated at the 2011 Nichols Meeting. IYC pins, booklets and stickers were distributed to all attendees. Also, winners of 15 IYC tee shirts were announced at the symposium. At the IYC table is Dr. Harini Patel (Medgar Evers College), Dr. Rolande Hodel (Chair of the Westchester Subsection), Mrs. Joan Laredo Liddell (Chair of the IYC Committee) and Mrs. Marilyn Jespersen (New York Section Office Administrator).

The Medalist met with many students after the dinner. He signed dinner programs and posed for photos with them. Here, Dr. Rebek is with students from Queensborough Community College.



The New York Section was honored to have chemists from OSI Pharmaceuticals at the Nichols Symposium and Award Dinner.



Chemistry students from St. John's University always enjoy the Medal Award dinner.



Faculty and Students from SUNY's Nassau Community College and Old Westbury College. Students and faculty from thirty colleges within the New York Section participated in the Nichols Meeting.

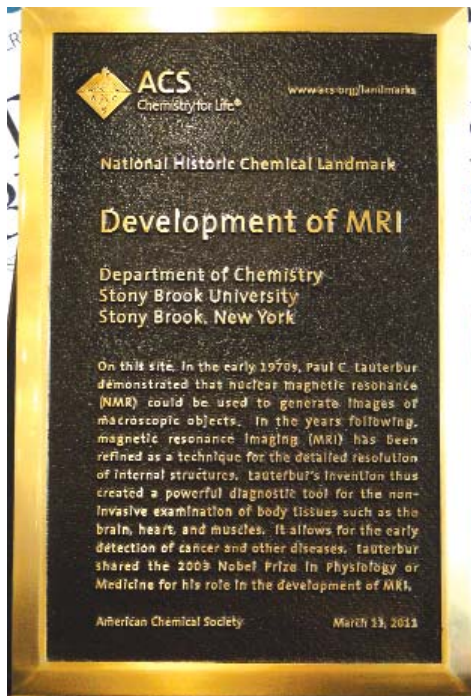
NMR AND MRI: APPLICATIONS IN CHEMISTRY AND MEDICINE DESIGNATED AS A NATIONAL HISTORIC CHEMICAL LANDMARK

On March 11, 2011, Nuclear Magnetic Resonance and Magnetic Resonance Imaging: Applications in Chemistry and Medicine, was designated as a National Historic Chemical Landmark at Stony Brook University's Department of Chemistry. This was the seventh National Historic Chemical Landmark designated in the New York Section of the American Chemical Society. The designation recognizes the work of former faculty member Paul Lauterbur, who shared the Nobel Prize in Physiology and Medicine in 2003 with Peter Mansfield for the discovery of MRI. Lauterbur used a Varian A-60 to show that NMR could generate multi-dimensional images. Lauterbur was the first to demonstrate magnetic resonance imaging and Mansfield improved the resolution and speed of MRI. A second designation ceremony will recognize the Varian A-60 at Varian Associates, now Agilent Technologies in California.

More than 150 students, faculty and guests attended the designation ceremony. Speakers included Nancy B. Jackson, President of the American Chemical Society; John H. Marburger III, Vice President for Research at Stony Brook; Mrs. Paul Lauterbur; and Eriks Kupce, Senior Scientific Advisor, Agilent Technologies. The American Chemical Society presented a plaque commemorating this achievement to Stony Brook University.

A symposium entitled "The Future of Bioimaging" followed the designation ceremony. Joanna S. Fowler, Senior Chemist at Brookhaven National Laboratory spoke on "Imaging Addiction in the Human Brain." Jerome L. Ackerman, Associate Professor at the Harvard Medical School, spoke on "Paul Lauterbur's Legacy: the Past and Future of MRI." Joseph A. Frank, Senior Investigator at the National Institutes of Biomedical Imaging and Bioengineering gave a talk entitled "From Zeugmatography to Cellular MRI." The symposium was followed by a reception and dinner.

John B. Sharkey

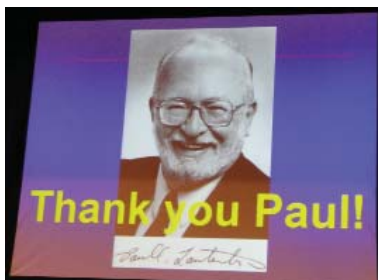


Above: Landmark Plaque. At right: From the symposium "Paul Lauterbur's Legacy: the Past and Future of MRI."



ACS President, Nancy B. Jackson reads the inscription on the Landmark Designation plaque.

(All photos courtesy of Marilyn Jespersen)





New York Section Officers attending the National Historic Chemical Landmark Designation: Don Clarke, Luis Vargas, Phil Mark, Stephen Goldberg, Frank Romano, Neil Jespersen (ACS Board of Directors), Steven Koch, Richard Cassetta and John Sharkey (Chair of the History of the ACS, New York Section)



Dr. Paul Lauterbur used the Varian A-60 exhibited here to demonstrate the proof-of-principle that NMR could generate multi-dimensional images.



ACS President Nancy B. Jackson extends best wishes to John H. Marburger III, VP Research and Stony Brook University on this special occasion.



From left to right, Benjamin Hsiao, Chair, Chemistry Department, Stony Brook University; Nancy B. Jackson, President ACS; Mrs. Lauterbur; Joseph A. Frank, symposium speaker; John H. Marburger III, VP Research, Stony Brook University; Eriks Kupce, Agilent Technologies, U.K.; Daniel Raleigh, Professor of Chemistry, Stony Brook; Jerome L. Ackerman, symposium speaker.

BROOKLYN SUBSECTION - MARCH MEETING

The Brooklyn Subsection co-sponsored with the NY Section Environmental Committee and Medgar Evers College (MEC)/CUNY the Annual Environmental Issues Conference an afternoon symposium in the New Science and Health Building at Medgar Evers College, Brooklyn, N.Y. on Friday, March 11, 2011.

This symposium was held to celebrate 2011 the International Year of Chemistry (IYC) and served as prelude to the 16th Annual Environmental Issues Conference

held at MEC on March 12, 2011. Talks at the symposium featured the alternative Energy and improved Environment for a greener tomorrow.

Drs. Michele Vittadello, Medgar Evers College, Kotaro Sasaki, Brookhaven National Laboratory and Masoud Ghandehari, Polytechnic Institute of NYU and Mr. Thomas Abdallah, .MTA, New York City Transit were the speakers of the symposium.

ACS IYC pins were presented to the attendees.



Left to right: Drs. Hiroko Karan, ACSNY Section Chair; Speakers Drs. Masoud Ghandehari, and Kotaro Sasaki, Mr. Thomas Abdullah and Dr. Michele Vittadello.

(Photo courtesy of Brian Gibney)

BROOKLYN SUBSECTION - APRIL MEETING

Professor Daniel G. Nocera, the Henry Dreyfus Professor of Energy at the Massachusetts Institute of Technology, presented the 2nd Annual Brooklyn Frontiers in Science Public Lecture, a 2011 International Year of Chemistry sanctioned event on Thursday, April 14, 2011 at the Polytechnic

Institute of New York University (NYU-Poly).

The lecture entitled "Personalized Energy (for 1 x 6 Billion)" detailed Prof. Nocera's development of the first artificial leaf capable of using unpurified water and sunlight to generate the gaseous fuels of oxygen and hydrogen in a carbon neutral manner. Over 200 people attended the lecture and had the opportunity to talk with Prof. Nocera before the event and question him after his lecture.



Left to right: Professor Nocera speaks with MacRae Maxfield, Brian Gibney, and NYU-Poly Provost Dianne Rekow prior to the lecture.

(Photo courtesy of Brian Gibney)

WESTCHESTER CHEMICAL SOCIETY

Dr. Mary Virginia Orna's presentation on the history of Women Chemists who were inducted in the National Inventors' Hall of Fame attracted the kind of audience we wished for. The lecture class was filled with young women and a few male students mostly from the College of New Rochelle and Westchester Community College. Dr. Orna is a well known and enthusiastic speaker. The presentation reminded everyone that everything is possible when one puts her or his mind to it.

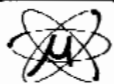


"NRstudents": Erika Alvarado SAS '12 Biology major; Jessica Kottwitz SAS '12 Biology major/Chem minor; Missiel Munoz SAS '14 Biology major/Chem minor; Denise Dailey SAS '14 Chemistry major; Sister Mary Virginia Orna (speaker); Zuleyka Hernandez SAS '14 Chemistry major; Alyssa Beasley SAS '12 Biology major/Chem minor; Prof. Elvira Longordo, College of New Rochelle; Dilruba Hossain SAS '12 Chemistry major/business minor. (SAS means School of Arts and Sciences).



Left to right: Dr. Rolande Hodel, Kristen Nigro, Jamie Siegel, Ashley Martinez, Kazia Garcia, Dr. Sister Mary Virginia Orna.

(Photos courtesy of Prof. Elvira Longordo)



Micron Analytical Services

**COMPLETE MATERIALS CHARACTERIZATION
MORPHOLOGY CHEMISTRY STRUCTURE**

SEM/EDXA • EPA/WDXA • XRD XRF • ESCA • AUGER • FTIR • DSC/TGA

Registered with FDA • DEA GMP/GLP Compliant

3815 Lancaster Pike Wilmington DE, 19805
E-Mail micronanalytical@compuserve.com

Voice 302-998-1184, Fax 302-998-1836
Web Page: www.micronanalytical.com

North Jersey Meetings

<http://www.njacs.org>

NORTH JERSEY EXECUTIVE COMMITTEE MEETING

There will be no North Jersey Executive Committee Meeting in June.



CAREERS IN TRANSITION GROUP

Job Hunting??

Are you aware that the North Jersey Section holds monthly meetings at Fairleigh Dickinson University in Madison to help ACS members? Topics covered at these cost-free workshops are:

- The latest techniques in resume preparation
- Ways for improving a resume
- Answers to frequently asked interview question and
- Conducting an effective job search

The next meetings for the Careers In Transition Group will be held **Thursday, June 2, 2011; Thursday, July 7; and Friday, August 5, 2011**, in the Rice Lounge on the first floor of the New Academic Building. The meeting will start at 5:30 PM and end at 9:00. There will be a Dutch-treat dinner. To get the most from the meeting, be sure to bring transparencies of your resume.

Please contact bill suits@earthlink.net, if you plan on attending this meeting.

NJACS TEACHER AFFILIATES

Executive Committee Meeting

Meeting dates are subject to change due to school closings or inclement weather.

Date: Thursday, June 2, 2011

Time: 4:30 PM - 6:30 PM

Place: College of St. Elizabeth
Faculty Lounge/Study
2nd Floor of Mahoney Library
Madison, NJ

Contact: Mita Chaki

mchaki@franklinboe.org



REGULATORY CMC SYMPOSIUM (was June 7, moved to DVa 22)

The NJACS-Regulatory CMC Topical Group is pleased to announce the half day mini-symposium to be held on **Sept 22, 2011** at the Rutgers Busch campus in Piscataway, NJ. The Busch campus is easily approachable from Route 287 or Route 18. The format of the symposium will be similar to the one held on December 2, 2010. The talks will center on topics such as: counterfeit drugs, genotoxic impurities, medical devices and submission requirements for Rest of the World/Emerging Markets. Details of the event have been posted on the website www.njacs.org. Please visit the website to register.



NMR TOPICAL GROUP

Date: Wednesday, June 15, 2011

See www.njacs.org for more information.



Robertson Microlit Laboratories

Where speed and accuracy are elemental

Elemental CHN, S, X, Analysis (*same day service*)

Metals by ICP-OES, ICP-MS, A/A

HLR, UV/VIS Spectroscopy

Ion Chromatography

Bioavailability

Polarimetry

DSC, TGA, melting point

KF Aquametry, Titrimetry

1705 U.S. Highway 46 • Suite 1D • Ledgewood, NJ 07852 • 973.966.6668 • F 973.966.0136
www.robertson-microlit.com • email: results@robertson-microlit.com

Rapid Results • Quality • Accuracy • Competitive Pricing

42nd National Organic Chemistry Symposium Princeton University, June 5-9, 2011

Joseph Armstrong	Merck Process Chemistry
Carolyn Bertozzi	University of California, Berkeley
Benjamin Cravatt	Scripps Research Institute
Vy Dong	University of Toronto
Dennis Dougherty	California Institute of Technology
Dieter Enders	Rheinisch-Westfälische Technische Hochschule
Jean Frechet	University of California, Berkeley
Amir Hoveyda	Boston College
Michael Krische	University of Texas at Austin
Colin Nuckolls	Columbia University
M. Christina White	University of Illinois
Anthony Wood	Pfizer Medicinal Chemistry
Hisashi Yamamoto	University of Chicago
Robert Grubbs*	California Institute of Technology

**(2011 Roger Adams Awardee)*

Poster sessions and social events round out the schedule
Recreational activities abound in scenic Princeton, nearby in Philadelphia,
New York City and at the Jersey Shore

***Don't miss this premier event sponsored by the
ACS Division of Organic Chemistry!***

For more information, and to register please visit
www.nationalorganicsymposium.org

*Poster submission deadline: May 1, 2011
Early registration pricing ends May 13, 2011*

Division Organizers:

William Greenlee (Merck), Duane Burnett (Merck) and Scott Sieburth (Temple University)
Local Co-Chairs (Princeton University):
Paul Reider, Abigail Doyle and Dorothea Fiedler

American Chemical Society
**Division of
Organic
Chemistry**





NoJ YOUNGER CHEMISTS COMMITTEE

The 4th Annual NJACS Younger Chemists Committee Picnic is almost here. We would like to extend an invitation to one and all to join us for a day of great food, games and networking on June 12th at Johnson Park (Grove 1), Piscataway, NJ from 11:30AM to 4PM.

Due to the overwhelming success of the picnic last year, despite a rainy start, we will once again be joining forces with our parent chapter the NJACS for a joint mentoring event where younger chemists will have the opportunity to meet with academic and industry professionals.

Johnson Park has great views of the Raritan River, various sports facilities, two playgrounds, and even a free-access farm zoo that attracts many kids on summer weekends. Your friends and family are also welcome to join us and we believe all will enjoy the picnic in the Park on a summer afternoon. We will supply the BBQ chicken, sausages, hamburgers and hot-dogs, corn on the cob, vegetarian options, watermelon, salads galore, desserts, lemonade, water... all you need to bring is yourself, family and friends, your bikes, tennis rackets, soccer balls, or even your guitar, and join us!

While we still hold fond memories of the "picnic under umbrellas" on a drizzly day at Johnson Park in 2008 and overlooking the NYC skyline in 2010, we have learned from the past and do have a rain date...just in case!

The YCC would also like to take this opportunity to extend our "Thanks and Appreciation" to all members of YCC, event volunteers and NJACS.

Please register at <http://njacs.org/ycc/> and please let us know if you are interested in being a mentor or mentee.

This event is sponsored by the YCC and the NJACS executive committee.

Main Event Information:

Date: Sunday, June 12, 2011
Times: 11:30 AM to 4:00 PM
Place: Johnson Park (Grove 1)

1030 River Road
 Piscataway, NJ

Cost: ACS and YCC members FREE
 Non-members \$5.00; Kids FREE

Rain date Information:

Date: Sunday, June 26, 2011
Times: 11:30AM
Place: Liberty State Park
 Yellow picnic site number 4
 in the Group Picnic Area
 1 Audrey Zapp Drive
 Jersey City, NJ



CHEMISTS CELEBRATE EARTH DAY WINNERS LIST 2011

1st Place

Teacher/School	Student/Grade
Mrs. Tatiana Enslin Northeast School, Montclair	Stephen Stamas 2nd
Mrs. Carla Pastore Mt. Park School, Berkeley Hts.	Brendan Hardina 5th
Mr. Taylor Mt. Hebron Middle School Montclair	Cole Hepburn 6th
Mr. Tharian Leonia High School	Jennifer Park 11th

2nd Place

Ms. Marisela Ruiz Roosevelt Elem. School East Brunswick	Yulitz Galindo 2nd
Mrs. Carla Pastore Mt. Park School, Berkeley Hts.	Jimmy Pitingolo 5th
Mr. Taylor Mt. Hebron Middle School Montclair	Lillian Silverstein 6th
Mrs. J. Rammaswamy Bogota Jr/Sr High School Bogota	Frailine Gliozzi 10th

3rd Place

Ms. Marisela Ruiz Roosevelt Elem. School East Brunswick	Braayan Nunez 2nd
Ms. Susan Bermeo Hillside Elementary School Montclair	Wade Korbel 4th
No entry received that qualified	6-8th
Ms. Margaret Mitchell Ridge High School Basking Ridge	Nicole Castillo 10th

STUDENTS VIE TO QUALIFY FOR INTERNATIONAL CHEMISTRY OLYMPIAD

The North Jersey Section of the American Chemical Society is proud to announce the names of 13 outstanding high school chemistry students, who have taken a national qualifying exam on April 16, at FDU (College of Florham) to select finalists in the U.S. National Chemistry Olympiad.

Student	Teacher	High School
Justin Jang	Theresa LoBoda	Livingston
Alex Nie	Theresa LoBoda	Livingston
Kevin Lorenz	Daniel Chilowicz	Clifton
Vetri Velan	Daniel Chilowicz	Clifton
Jason Robbins	Theresa Wertheimer	Randolph
Utsarga Sikder	Tim Burnett	South Brunswick
Steven Flynn	Michael Gangluff	Watchung Regional
Michael Ma	Michael Gangluff	Watchung Regional
Elmer Tan	Paul Sekuler	JP Stevens
Wooseok Ahn	Rocco Galante	Bergen County Academies

Justin Zhang	Rocco Galante	Bergen County Academies
Phillip Ai	Sandy Krupinski/ Paul Kimmel	East Brunswick
Ray Hoy	Sandy Krupinski/ Paul Kimmel	East Brunswick

From the nearly 1000 students nationwide, twenty will be identified and will undergo intensive training for two weeks at the U.S. Air Force Academy in Colorado. The top four among this group will be chosen to represent the U.S. at the 43rd International Chemistry Olympiad to be held in Ankara, Turkey, during July 9-18, 2011.

The International competition involves a series of theoretical exams, laboratory exercises, and other activities aimed at identifying the best chemistry students from participating nations from around the world. The U.S. has participated in this event since 1984. In 2010, the U.S. team won two gold, one silver, and one bronze medals. A total of 267 students represented 68 countries at the 42nd IChO, in Tokyo, Japan.



The thirteen 2011 ACS NoJ Section Chemistry Olympiad finalists taken at FDU on April 16, 2011. (L-R) Ray Hou, Jason Robbins, Wooseok Ahn, Vetri Velan, Justin Zhang, Kevin Lorenz, Phillip Ai, Utsarga Sikder, Steven Flynn, Michael Ma, Elmer Tan, Alex Nie and Justine Jang.

(Photo courtesy of John Penna)



Students taking the National exam for the Chemistry Olympiad[®].

(Photo courtesy of Ray Baylouny)

NORTH JERSEY REGIONAL SCIENCE FAIR 2011

Dear Mr. Bill Suits,

We would like to thank your organization for your continued support of scientific engagement. I am pleased to announce the winners of the American Chemical Society awards at the 2011 North Jersey Regional Science Fair:

First Place:

“Synthesis and Characterization of Nanoparticles for Hydrogen Gas Generation”

Jae Seong No
Bergen County Academies

Second Place:

“A Blueprint for Designing Effective Biofilm Inhibitor and Disruptor Molecules”

Tara L Raj
Hunterdon Central Regional High School

Third Place:

“Interactions of Smart Polymer Surfaces with Metal Nanoparticles”

Pavel Petrovich Shibayev
Bergen County Academies

Sincerely yours,
Amanda J. Stent, Awards co-director



METRO WOMEN CHEMISTS COMMITTEE

2nd Annual Mentoring Award

By Chunlin Zhao (MWCC co-organizer)

On April 12th, The NJACS Metro Women's Chemist Committee (MWCC) and the Central Jersey AWIS chapter held a joint meeting at Fairleigh-Dickinson Campus in Madison, NJ to honor Mrs. Maureen Chan as this year's MWCC Mentoring Award Winner. Over 25 people attended the event, despite the rainy weather. After dinner and networking, the Award nominators, Amber Charlebois and Sue Fahrenholtz highlighted Maureen's great efforts in mentoring others, her high achievements in her career and her contributions to our local and national ACS organizations. After a brief speech from Maureen, four panelists including Amy Balija (Professor, Fordham University), Joanne Gere (President, AWIS NJ), Judy Cohen (Chair, National WCC) and Jutta Wanner (Chemistry Department Head, Roche) shared their thoughts and experiences on mentoring. Jutta Wanner gave a brief intro-

duction of a Roche Mentorship Program and her views on formal mentorships. The panel discussion enabled a highly interactive conversation amongst attendees and there were warm interactions among the panelists and the other meeting participants.

Maureen Chan has been a role model for many people, and it was evident that she was well-deserving of this year's award. Maureen received her B.S. from Chestnut Hill College and her M.S. from Stevens Institute of Technology. During her thirty-three plus years at Bell Laboratories, Maureen's career advanced from a technical assistant to a technical manager in the Research Division of the Laboratories. Maureen has been a great mentor and a promoter of mentoring programs both in her work place and within ACS. Maureen Chan's activities in the ACS are extensive. She has been an active member of the North Jersey Section for over thirty years. She has served many important roles in the section and chaired several Section Committees including education, regional meetings, nominations, awards and the government affairs committees. She co-founded the Metro Women's Chemists Committee (MWCC) and was its co-coordinator for many years. Nationally, Maureen's contributions and leadership in ACS were also recognized as Chair of Women Chemists Committee and as a member of Council and several other Society Committees. Notably, Maureen was chosen as one of the first ACS Fellow Inductees.

Congratulations once again to Maureen Chan, the 2011 Mentoring Award Winner and thanks to all of our panelists for an exceptional event!



Maureen Chan and her husband Chee Keung Chan at the Mentoring Award Event.

(All photos courtesy of Chunlin Zhao)



From left: Chunlin Zhao, Judy Cohen, Kelly George, Maureen Chan, Susan Fahrenholtz, Jutta Wanner, Joanne Gere, Amy Balijs and AmberCharlebois)



MWCC Mentoring Awardee Maureen Chan, MWCC co-chair Amber Charlebois and co-chair Kelly George

Susan Fahrenholtz, Maureen Chan, Ruth Nemire and Jutta Wanner enjoying their conversation



Fresh Blood of MWCC: Brianna Hill and Katelyn Lewis, students from Fairleigh-Dickinson University at the Mentoring Award Event



Bettyann Howson, Kelly George and Thuy Le chatting with each other

Others

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS

U.S. and German Organizations Team with Hong Kong University to Sponsor Meeting on Sustainable Energy in the Process Industries

New York & Frankfurt – The American Institute of Chemical Engineers (AIChE) and DECHEMA, the German Society for Chemical Engineering and Biotechnology, are co-sponsoring the first Global Conference on Energy Sustainability in the Process Industries from **June 5 to 8** at the Hong Kong University of Science and Technology. According to conference co-chair, Thomas Dietrich, CEO of Mikrogas, based in Mainz, Germany, organizers developed the program given that “diminishing fossil fuel reserves and concerns over climate change are driving industries and governments to improve energy efficiency and reduce carbon dioxide emissions.”

On Monday, June 6, C.J. Guo, Shell’s Beijing-based emerging technology theme lead, will deliver the keynote address, highlighting the long-term prospects for fossil-fuel resources, the impact of biofuels on transportation, the role of carbon capture and sequestration, and the diversity of energy sources needed to meet global demand. Sessions through the rest of the conference will define research needs, examine recent technical advances, and discuss strategies for implementing energy-saving solutions across a range of industries: electronics, automotive, chemical, pharmaceutical and biotechnology. Speakers from China, Denmark, Germany, India, Japan, Malaysia, the Netherlands and the U.S. are among those scheduled.

“Hearing the diverse perspectives and policy objectives of different countries, organizations and industries can help us identify global engineering solutions and coordinated strategies,” Dietrich explained. “Attendees will hear perspectives they’d miss in a narrowly focused or industry-specific meeting,” he added.

AIChE and DECHEMA members receive a registration discount, and an additional early-registration discount applies through May 2. The conference rate includes breakfasts, lunches, an opening reception and a

conference banquet. Bussing from the official conference hotel is included.

For more information about the conference or related workshops and meetings, please go to: <http://www.aiche.org/conferences/specialty/ESPI.aspx>



AIDSFreeAFRICA

The Beginning of Pharmaceutical Production in Cameroon

Dr. Rolande Hodel will be presenting AIDSfreeAFRICA’s successful work in Cameroon. The country started drug production just this year. However, US media have not taken up the news as they did with India or more recent with China, save this blog by C&ENews editor Linda Wang <http://cenblog.org/the-haystack/2011/03/can-a-pasta-king-bring-generic-drugs-to-sub-saharan-afica/>

What does “drug production” mean in Sub-Saharan Africa? What is produced and who benefits? These and other questions the audience may have will be addressed.

Date: Wednesday, July 27, 2011

Time: Dinner on your own at 6:00 PM

Presentation 7:00 PM

Place: The Hudson Valley Science Café

For directions goggle Diana’s Restaurant in New Windsor, NY

<http://www.DIANASNY.com>

Call for Nominations

EDWARD J. MERRILL AWARD FOR OUTSTANDING HIGH SCHOOL CHEMISTRY TEACHER FOR 2011

Now is the time to begin thinking about nominations for the Edward J. Merrill Award, North Jersey Section, for Outstanding High School Chemistry Teacher for the year 2011.

Go to the web site, njacs.org under education and obtain your preliminary nomination form and guidelines. The full packet takes time to do a good job!

We all know an outstanding high school chemistry teacher. Perhaps one from your town, your son's or daughter's teacher or just one that you have heard about or worked with at some point. The award carries \$500 for the teacher, \$500 in supplies for the teacher's classroom and a plaque to display at home or in the classroom.

Any questions or help needed contact Bettyann Howson, chemphun@optonline.net.



THE WILLIAM H. NICHOLS MEDAL AWARD FOR 2012

The New York Section is accepting nominations for the William H. Nichols Medal Award for the year 2012. This distinguished award, established in 1902 by Dr. William H. Nichols, for the purpose of encouraging original research in chemistry, is the first award authorized by the American Chemical Society. It is presented annually in recognition of an outstanding contribution in the field of chemistry, and consists of a gold medal, a bronze replica and \$5000. The medals are presented at the William H. Nichols Meeting that consists of a Distinguished Symposium related to the medalist's field of expertise and a Medal Award Dinner.

Investigators who have published a significant and original contribution in any field of chemistry during the five calendar years preceding the presentation meeting are eligible for consideration by the Nichols Medal Jury. The New York Section encourages nominations from academia, government and industry.

Each nomination requires a completed Nomination Form, biographical and professional data, and seconding letters. Since the nomination process utilizes the New York Section website, please access the forms and instructions at <http://www.NewYorkACS.org>.

Nominations must be received by **May 31, 2011**. The Nichols Medal Award Jury will meet in June 2011 to select the Nichols Medalist for 2012.

Questions regarding the nomination procedure should be directed to Marilyn Jespersen, New York Section Office, at njesper1@optonline.net.

BIOTECHNOLOGY PROGRESS LAUNCHES AWARD HONORING EXCELLENCE IN BIOLOGICAL ENGINEERING PUBLICATION

**Nominations for Inaugural Presentation
Due July 15**

NEW YORK – Biotechnology Progress, a bimonthly journal published for the American Institute of Chemical Engineers (AIChE) and its Society for Biological Engineering (SBE) by John Wiley & Sons, is offering a new annual prize for excellence in publications in biological engineering. According to the journal's editor, Michael Domach of Carnegie Mellon University, the award "celebrates excellence and foundational contributions to biotechnology and biological engineering through a body of work or a seminal paper, review, or research report."

The prize, which consists of a \$3,000 honorarium and up to \$500 in travel expenses, is underwritten by Wiley and will be presented at an SBE event during AIChE's annual meeting. This year's annual meeting will be in Minneapolis from October 16 to 21. The winner is expected to deliver an SBE webinar and/or to author a paper in his or her area of expertise for publication in *Biotechnology Progress*.

June Wispelwey, AIChE's executive director and the former head of SBE, said, "We're thrilled to be partnering with Wiley to recognize the great work that engineers and scientists are publishing in the broad discipline of biological engineering, whether it is in biomedical engineering, biotechnology, biochemical engineering or any related field." She added that the award has no geographic, membership or age requirements. Candidates may self-nominate or be nominated by other individuals or organizations.

Nomination packages, which should be submitted by e-mail to awards@aiche.org, should include the nominees' curriculum vitae, a list of publications from the last ten years worthy of consideration, and a brief statement (no more than 1,000 words) describing the impact of the nominees' publication(s), along with at least one signed letter of support. **The deadline is July 15, 2011.** For more information, visit [http://onlinelibrary.wiley.com/journal/10.1021/\(ISSN\)1520-6033](http://onlinelibrary.wiley.com/journal/10.1021/(ISSN)1520-6033)

ANNUAL INDICATOR BUYER'S GUIDE

Your Buyers Guide Listing is FREE! If you are not listed in this year's Guide, please contact Vince Gale at (781) 837-0424, email, vincegale@mboseervices.net to be listed in next year's Guide.

The purpose of the Guide is to provide a ready reference of companies providing products and services that are of interest to our American Chemical Society members. They will use this Guide to locate vendors who can service their needs when they are trying to solve a problem, need equipment, restock inventory or require consultant services. They will keep this Guide until the next one is published. It has been estimated that this scientific audience has an annual purchasing power of more than \$600,000,000.

How to use this Guide— First look at the BUYERS GUIDE PRODUCTS & SERVICES LISTINGS which starts on this page. Find the Category in which you are interested. Categories are shown in bold letters. Then, under the Category look for the specialized Product or Service that you want and note the companies that are shown there. Then go to the Company Directory (on page 28) and locate the companies that provide the Product or Services that interest you. Complete contact information is available for each company listed in the Buyers Guide.

BUYER'S GUIDE - Products & Services

ANALYTICAL EQUIPMENT

4-Molecular weight analyzers

Brookhaven Instruments Corp.

5-Moisture analyzers

Cosa Instrument Corporation

6A-Particle size

Brookhaven Instruments Corp.

7-pH Meters & indicators

DigiPol Technologies

8-Polarimeters

DigiPol Technologies

9-Refractometers

DigiPol Technologies

12-Viscometers

ATS RheoSystems
Brookfield Engineering Lab Inc

Brookhaven Instruments Corp.

C.W. Brabender Instruments

HT Laboratories, Inc.

12A-Water test kits

Taylor Technologies Inc.

12B-Weighing balances & scales

Rice Lake Weighing Systems

12BA-Zeta potential

Brookhaven Instruments Corp.

ANALYTICAL SERVICES

12C-HPLC

DigiPol Technologies

EquipNet Inc.

Galbraith Laboratories, Inc.

12D-Mass Spectrometry

Alpha M.O.S. America

EquipNet Inc.

Galbraith Laboratories, Inc.

Metabolic Solutions Inc.

12DA-SEC/GPC size excl chromatography

EquipNet Inc.

Polymer Standards Ser USA Inc

12F-TLC

Galbraith Laboratories, Inc.

12G-UV-Visible Spectroscopy

Galbraith Laboratories, Inc.

12H-NMR Spectroscopy

New Era Enterprises Inc.

New Jersey Inst. of

Technology

NuMega Resonance Labs Inc.

BIOTECHNOLOGY

13-Biochemicals

Cambridge Isotope

Laboratories

Gelest Inc.

TCI America

14-Biomedical equipment

BioPro International Inc.

Scientific Asset Management

15-Biomedical polymers

Gelest Inc.

Polymer Standards Ser USA Inc

16-Cell disruption

GEA Process Engineering Co.

Impandex Inc.

17-Microbiology

Bioremediation Consulting

Inc.

CHEMICAL ANALYSIS

19-Bioanalytical service

LC/MS

Rocky Mountain Instruments Lab

21-Data processing

Signatec Inc.

21A-Elemental Microanalysis

Complete Analysis Laboratories

Galbraith Laboratories, Inc.

Robertson Microlit Labs.

21B-Polymer analysis

Polymer Standards Ser USA Inc

22-Precious metal assay

Galbraith Laboratories, Inc.

23-Testing laboratory

Alliance Technologies Llc

Galbraith Laboratories, Inc.

M&P Lab

Micron Inc.

ProScience Analytical Svs

24-Trace element analysis

DigiPol Technologies

Galbraith Laboratories, Inc.

Huffman Laboratories Inc.

VHG Labs

25-Thermal analysis

ATS RheoSystems

Setaram Inc.

25B-Calibration polymers

Polymer Standards Ser USA Inc

CHEMICALS

25A-Amino acids

Cambridge Isotope

Laboratories

TCI America

BUYER'S GUIDE - Products & Services

26-Catalysts

Gelest Inc.
TCI America

27A-Chiral & custom chemicals

Gelest Inc.
TCI America

28-Custom synthesis

Bedoukian Research
Cambridge Isotope Laboratories
Frinton Laboratories, Inc.
Gelest Inc.
Key Synthesis LLC
Richman Chemical Inc.
TCI America

29-Detergents

Cambridge Isotope Laboratories

31-Emulsifiers

GEA Process Engineering Co.

32B-Hydrocarbons

Gelest Inc.
TCI America

33-Inorganic chemicals

Gelest Inc.

34-Intermediates

Gelest Inc.
TCI America

35-Isotopes

Cambridge Isotope Laboratories
ICON (Isotope) Services Inc.

35B-Organic Compounds

Gelest Inc.
Key Synthesis LLC
TCI America
Tyger Scientific Inc.

35A-Pharmaceutical intermediates

Ash Ingredients Inc.
Cambridge Isotope Laboratories
Gelest Inc.
TCI America

37-Reagents

EMD Chemicals
LabChem Inc
Nacalai USA Inc.
Spectrum Chemicals & Lab Prods
TCI America

38-Research Chemicals

Cambridge Isotope Laboratories
ChemFuture Pharma Tech
Gelest Inc.
Key Synthesis LLC
Nacalai USA Inc.

Polysciences Inc.
TCI America

39-Solutions, standard

Cambridge Isotope Laboratories
Inorganic Ventures

40-Solvent recovery

GEA Process Engineering Co.

CHROMATOGRAPHY

41-Accessories & supplies

New Era Enterprises Inc.
Sorbent Technologies Inc.

42-Columns, prepacked

DigiPol Technologies
Nacalai USA Inc.
Polymer Standards Ser USA Inc

42A-Chromatography

Chiralizer Services, LLC
GOW-MAC Instrument Co.
Phenomenex

43-Gas

Alpha Omega Technologies Inc.

44-HPLC columns

DigiPol Technologies
Nacalai USA Inc.

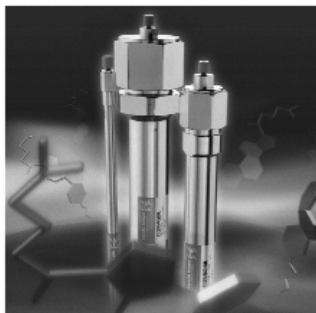
(continued on page 26)

Nacalai USA
Innovations for Life Sciences.



COSMOSIL HPLC Columns

- Since 1979



New Phases Now Available!

HILIC (Triazole bonded)

- Unique stationary phase for highly polar compounds

piNAP (Naphthylethyl group bonded)

- Enhanced π - π interactions for unsaturated compounds

Cholester (Cholesteryl group bonded)

- New stationary phase for structural isomers

Nacalai USA, Inc. 6640 Lusk Blvd. Suite A200 San Diego CA 92121

Tel: 858-404-0403 Email: info@nacalaiusa.com

www.nacalaiusa.com

BUYER'S GUIDE - Products & Services

(continued from page 25)

Sepax Technologies
TCl America

44A-SEC/GPC columns

Polymer Standards Ser USA
Inc

46-Liquid

Richard Scientific

46A-Size exclusion

Polymer Standards Ser USA
Inc

COATINGS

49-Coating facilities

MIRWEC Film - Coating
Division

COMPUTER

APPLICATIONS

54-Information retrieval & review

Daylight Chemical Information

56-Software

Accelerated Technology Lab
CambridgeSoft Corp.
International Center Diff Data
Tripos Inc.

CONSULTING, MANAGEMENT

57A-Executive Search

On Assignment Lab Support

59-Patents

Banner & Witcoff Ltd.

60-Research

Chemical Consultant

CONSULTING SERVICES

63-Biomedical

Chemical Consultants Network

64-Chemical Process

Chemical Consultants Network
EquipNet Inc.

65-Contract research

Chemical Consultants Network
Poly(Chem-Tech)
TRI/Princeton

65A-Contract testing laboratory

Airborne Labs Intl. Inc.
ATS RheoSystems
Boston Analytical
Galbraith Laboratories, Inc.
Micron Inc.
Polymer Standards Ser USA
Inc

66-Engineering

Chemical Consultants Network
EquipNet Inc.
GEA Process Engineering Co.
ICF International

69-Infrared analyses

Galbraith Laboratories, Inc.
Huffman Laboratories Inc.
Micron Inc.

72-NMR analysis

Spectral Data Services

74-Organic chemistry

Chemical Consultants Network
Galbraith Laboratories, Inc.

74A-Patent information

Chemical Consultants Network

74B-Pharmaceutical analysis

Galbraith Laboratories, Inc.

75-Polymers

Chemical Consultants Network
Poly(Chem-Tech)
Polymer Standards Ser USA
Inc

76-Product formulation

Poly(Chem-Tech)

77-R & D

Chemical Consultants Network
Utility Development Corp.

79-Safety

The Laboratory Safety Inst.

80-Spectroscopy

Galbraith Laboratories, Inc.

80A-Technology transfer

Chemical Consultants Network

80B-Testing Laboratory

Atlas Material Testing Technol
Delsen Testing Laboratories
Galbraith Laboratories, Inc.
Micron Inc.
Polymer Standards Ser USA
Inc

81-UV analysis

Galbraith Laboratories, Inc.

DETECTORS

84A-Discharge ionization

GOW-MAC Instrument Co.

85-Flame ionization

GOW-MAC Instrument Co.

86-Gas leak

GOW-MAC Instrument Co.

87A-Thermal conductivity

GOW-MAC Instrument Co.

ELECTRON MICROPROBE

88-Electron Microprobe

Micron Inc.

ELECTRON MICROSCOPY

89-Electron Microscopy

EDAX Inc
EquipNet Inc.
Micron Inc.

ENVIRONMENTAL ANALYSIS

90-Environmental analysis

Analytical Bio-Chem Lab Inc.
Galbraith Laboratories, Inc.

ESCA SERVICES

91-ESCA services

Micron Inc.

GENERAL EQUIPMENT

93-AA lamps

New Era Enterprises Inc.

95-Autoclaves

Fluitron Inc.

96-Baths

2mag-USA

97-Blenders, mixers, stirrers

2mag-USA
EquipNet Inc.
Fluitron Inc.
GEA Process Engineering Co.
Patterson-Kelley
Variomag-USA

98-Burets & accessories

BrandTech Scientific Inc.

100-Centrifuges

Eastern Scientific Co.
EquipNet Inc.
GEA Westfalia Separator

101-Clean air fume hoods

EquipNet Inc.

105A-Deuterium Lamps

Bulbtronics Inc.
Lorelli & Co. Inc.
New Era Enterprises Inc.

106-Distilling equipment

GEA Process Engineering Co.

107-Dryers

EquipNet Inc.
GEA Process Engineering Co.

107A-Ductless fume hoods

Erlab Inc.

109-Evaporators

Eastern Scientific Co.
EquipNet Inc.
GEA Process Engineering Co.

110-Filters

Avery Filter Co.
Clarcor Air Filtration
EquipNet Inc.
GEA Process Engineering Co.
Newark Wire Cloth Company

112-Freeze dryers

Eastern Scientific Co.
GEA Process Engineering Co.

114-General laboratory equipment

BrandTech Scientific Inc.
Carbolite Inc.
EquipNet Inc.
Glas-Col LLC

BUYER'S GUIDE - Products & Services

- Kimble Chase LLC
KNF Neuberger Inc.(USA)
- 116-Glassware**
Ace Glass Incorporated
Chemglass Inc.
Quartz Plus Inc.
- 118-Homogenizers**
EquipNet Inc.
GEA Process Engineering Co.
- 119-Lab stirrers**
2mag-USA
EquipNet Inc.
Variomag-USA
- 119A-Labware**
BrandTech Scientific Inc.
EquipNet Inc.
- 120B-Microwaves**
CEM Corporation
- 125-Presses**
EquipNet Inc.
- 127-Pressure vessels**
EquipNet Inc.
Fluitron Inc.
Supercritical Fluid Tech. Inc.
- 128-Process controls**
GEA Process Engineering Co.
- 129-Pumps**
Eastern Scientific Co.
EquipNet Inc.
Fluitron Inc.
KNF Neuberger Inc.(USA)
VACUUBRAND Inc.
- 132-Solvent purification systems**
EquipNet Inc.
GEA Process Engineering Co.
- 133-Spectrophotometer cells**
BrandTech Scientific Inc.
- 135A-UV-visible lamps**
New Era Enterprises Inc.
- 137-Vacuum equipment**
BrandTech Scientific Inc.
Eastern Scientific Co.
KNF Neuberger Inc.(USA)
Mass-Vac, Inc.
VACUUBRAND Inc.
- 138-Valves**
EquipNet Inc.
- MICROSCOPES-
SCANNING PROBE**
- 144C-Atomic Force**
Nanoscience Instruments Inc.
- ORGANIC
MICROANALYSIS**
- 145-Organic microanalysis**
Galbraith Laboratories, Inc.
Huffman Laboratories Inc.
- ORGANIC SYNTHESIS**
- 146-Organic synthesis**
Cambrex Bioscience
Gelest Inc.
Zinsser North America
- ORGANOMETALLICS**
- 147-Organometallics**
Galbraith Laboratories, Inc.
Gelest Inc.
- POLLUTION CONTROL**
- 148-Instruments**
DigiPol Technologies
- 149-Standards**
Cambridge Isotope
Laboratories
- RADIATION PROCESSES**
- 153-Radiation processes**
Armbruster Associates Inc.
- SPECTROMETERS**
- 165A-Circular dichroism spectrometers**
JASCO
- 167-Fluorescence**
Lumex Intl.
- 169-IR**
Fiveash Data Management
- 171-IR & UV cells**
BrandTech Scientific Inc.
International Crystal Labs
New Era
- 172-Mass**
EquipNet Inc.
International Equip Trading
JEOL USA Inc.
U.S. Services Inc.
- 174-Raman**
Fiveash Data Management
- 176-UV visible**
Techne Inc.
- EDUCATION &
PUBLICATIONS**
- 179-Books, journals, monographs**
American Laboratory
CryoGas International
Future Science Group
- 179B-Training & education**
Chemical Heritage
Foundation
Societe de Chimie Industrielle
Temple University
- 179C-SEC/GPC training**
Polymer Standards Ser USA
Inc
- SUPPLIES**
- 181-Solvents & thinners**
Cambridge Isotope
Laboratories

Contribute to *The Indicator*

The Indicator is interested in adding new features to the publication. Your input would be appreciated. Please let us know which type of feature you would like to see in future issues; i.e., book reviews, member news, short articles about your research, puzzles (crossword or other), meeting reviews (with pictures of attendees or highlights), or any other ideas you may have.

Would you be willing to assist in gathering or writing such material?

Contact the Editor at:

linatkins@tampabay.rr.com or Fax: (352) 503-7613

BUYER'S GUIDE - Company Directory

2mag-USA

Gary Sander
Manager
PO Box 214769
Daytona Beach, FL 32121-4769
(386)761-6131 (voice)
(386)760-0960 (fax)
www.2magUSA.com
Sales2magUSA@aol.com
96,97,119

Accelerated Technology Lab

Christine, Ph.D Paszko
VP, Sales & Marketing
496 Holly Grove School Rd
West End, NC 27376-8412
(910)673-8165 (voice)
(910)673-8166 (fax)
www.atlab.com
info@atlab.com
56

Ace Glass Incorporated

Joe Kumpel
General Sales Manager
Box 688, 1430 NW Blvd.
Vineland, NJ 08360
(609)692-3333 (voice)
(800)543-6752 (fax)
j_kumpel@aceglass.com
116

Airborne Labs Intl. Inc.

Don Pachuta
President
22C World's Fair Drive
Somerset, NJ 08873
(732)302-1950 (voice)
(732)302-3035 (fax)
www.airbornelabs.com
airbornelabs@aol.com
65A

Alliance Technologies LLC

Jonathan Chun PhD
Director of Technology
1 Deer Park Drive, Suite D
Monmouth Junction, NJ 08852
(732)2-355- (voice)
(732)438-8265 (fax)
www.alliancetechnology.com
info@alliancetechnology.com
23

Alpha M.O.S. America

Meakee Kollet
V.P. Sales
7502 Connelley Drive, Ste#110
Hanover, MD 21076
(410)553-9736 (voice)
(410)553-9871 (fax)
www.alpha-mos.com
kollet@alpha-mos.com
12D

Alpha Omega Technologies Inc.

Adam Blaisdell
Marketing Director
1025 Rte 70
Brielle, NJ 08730
(800)842-5742 (voice)
(732)292-2311 (fax)
www.aoti.net
ablaisdell@aoti.net
43

American Laboratory

Robert G. Sweeney
Publisher
30 Controls Drive
Shelton, CT 06484
(203)39-26-9 (voice)
www.iscpubs.com
iscpubs@iscpubs.com
179

Analytical Bio-Chem Lab Inc.

Judy Searcy
Acct Manager, Business Devt
7200 East ABC Lane
Columbia, MO 65202
(573)777-6136 (voice)
(573)777-6033 (fax)
www.abclabs.com
searcyj@abclabs.com
90

Armbruster Associates Inc.

David Armbruster
President
43 Stockton Rd.
Summit, NJ 07901
(908)277-1614 (voice)
(908)277-1573 (fax)
www.armbrusterassocinc.com
info@esc.coolexample.com
153

Ash Ingredients Inc.

Richard Field
VP Sales & Marketing
65 Harristown Road
Glen Rock, NJ 07452
(201)689-1322 (voice)
(201)689-1344 (fax)
www.ashingredients.com
rfield@ashingredients.com
35A

Atlas Material Testing Technol

Jack Martin
Marketing Manager
4114 N Ravenswood Ave.
Chicago, IL 60613
(773)327-4520 (voice)
(773)327-5787 (fax)
www.atlas-mts.com
info@atlas-mts.com
80B

ATS RheoSystems

Steven Colo
President
231 Crosswicks Road
Bordentown, NJ 08505
(609)298-2522 (voice)
(609)298-2795 (fax)
www.atsrheosystems.com
info@atsrheosystems.com
12,25,65A

Avery Filter Co.

Larry Avery
V.P. and Technical Director
99 Kinderkamack Road
Westwood, NJ 07675
(201)666-9664 (voice)
(201)666-3802 (fax)
www.averyfilter.com
larry@averyfilter.com
110

Banner & Witcoff Ltd.

Ernie Linek
Patent-Trade-CopyRight- Attyys
28 State Street, 28th Floor
Boston, MA 02109-1775
(617)720-9600 (voice)
(617)720-9601 (fax)
www.bannerwitcoff.com
Elinek@bannerwitcoff.com
59

Bedoukian Research

Izzy Heller
Sales Manager
21 Finance Dr.
Danbury, CT 06810
(203)830-4000 (voice)
(203)830-4010 (fax)
www.bedoukian.com
izzy@bedoukian.com
28

BioPro International Inc.

Rene Lohser
President
P.O. Box 156 /265 Conklin St.
Farmingdale, NY 11735
(516)249-0099 (voice)
(516)249-0494 (fax)
www.biopro.com
bioprintl@aol.com
14

Bioremediation Consulting Inc.

Samuel Fogel, Ph.D
Vice President
39 Clarendon St
Watertown, MA 02472
(617)923-0976 (voice)
(617)923-0959 (fax)
www.bcilabs.com
sfogel@bcilabs.com
17

BUYER'S GUIDE - Company Directory

Boston Analytical

Robert McBride
VP Sales and Support
8 Industrial Way--#D3
Salem, NH 03079
(603)893-3758 (voice)
(603)893-1268 (fax)
www.bostonanalytical.com
info@bostonanalytical.com
65A

BrandTech Scientific Inc.

Christian Petrilli
Director-Marketing & Dist Rela
11 Bokum Road
Essex, CT 06426-1476
(860)767-2562 (voice)
(860)767-2563 (fax)
www.brandtech.com
cpetrilli@brandtech.com
98,114,119A,133,137,171

Brookfield Engineering Lab Inc

Kathy Durant
Marketing Media Asst.
11 Commerce Blvd
Middleboro, MA 02346-1031
(508)946-6200 (voice)
(508)946-6262 (fax)
www.brookfieldengineering.com
r_mcgregor@
brookfieldengineering.com
12

Brookhaven Instruments Corp.

Irene Mueller
Office Services Manager
750 Blue Point Road
Holtsville, NY 11742
(631)758-3200 (voice)
(631)758-3255 (fax)
www.BrookhavenInstruments.com
imueller@
BrookhavenInstruments.com
4,6A,12,12BA

Bulbtronics Inc.

Marketing Manager
45 Banfi Plaza
Farmingdale, NY 11735
(800)654-8542 (voice)
(631)249-6066 (fax)
www.bulbtronics.com
bk@bulbtronics.com
105A

C.W. Brabender Instruments

Kevin R. Van Allen
Marketing Manager
50 E. Wesley St.
S. Hackensack, NJ 07606
(201)343-8425 (voice)
(201)343-0608 (fax)
www.cwbrabender.com
cwbi@cwbrabender.com
12

Cambrex Bioscience

Priscilla Pascual
marketing Manager
One Meadowlands Plaza, 15th fl
East Rutherford, NJ 07073
(201)804-3031 (voice)
www.cambrex.com
priscilla.pascual@cambrex.com
146

Cambridge Isotope Laboratories

Krista Backiel
Regional Sales Rep
50 Frontage Road
Andover, MA 01810
(978)749-8000 (voice)
(978)749-2768 (fax)
www.isotope.com
kristab@isotope.com
13,25A,28,29,35,35A,38,39,149,
181

CambridgeSoft Corp.

Jesse A. Gordon
Marketing Manager
100 Cambridge Park Drive
Cambridge, MA 02140
(617)588-9306 (voice)
(617)588-9190 (fax)
www.cambridgesoft.com
jgordon@cambridgesoft.com
56

Carbolite Inc.

Scott Miller
Marketing Manager
110 South Second St.
Watertown, WI 53094
(920)262-0240 (voice)
(920)262-0255 (fax)
www.carbolite.com
sales@carbolite.com
114

CEM Corporation

Michelle Horn
Marketing Manager
PO Box 200
Matthews, NC 28106
(704)821-7015 (voice)
(704)821-8710 (fax)
www.cem.com
michelle.horn@cem.com
120B

ChemFuture Pharma Tech

May Shi
Marketing Manager
18 Zhenze Rd. Virgo A
Wuxi City Jiangso, CN 214135
www.chemfuture.com
may.shi@chemfuture.com
38

Chemglass Inc.

Howard Hayman
Director of Product Devt.
3861 N. Mill Road
Vineland, NJ 08360
(800)843-1794 (voice)
(800)922-4361 (fax)
www.chemglass.com
howard@cglifsciences.com
116

Chemical Consultant

Joseph Sabol, Ph.D
Principal
P.O. Box 085198
Racine, WI 53408-5198
(262)498-8005 (voice)
www.chem-consult.com
jsabol@chem-consult.com
60

Chemical Consultants Network

Ron Bihovsky
Chairman
804 Primrose Lane
Wynnewood, PA 19096
(215)382-1589 (voice)
www.chemconsultants.org
bihovsky@yahoo.com
63,64,65,66,74,74A,75,77,80A

Chemical Heritage Foundation

Gigi Naglak
Outreach Coordinator
315 Chestnut Street
Philadelphia, PA 19106
(215)873-8258 (voice)
(215)629-5258 (fax)
gnaglak@chemheritage.org
179B

(continued on page 30)

(continued from page 29)

Chiralizer Services, LLC

William Letter PhD, President
12 Penns Trail, Suite 140
Newtown, PA 18950
(215)497-9493 (voice)
(215)497-9466 (fax)
www.hplctools.com
sales@hplctools.com
42A

Clarcor Air Filtration

Julie Payne
Marketing Brand Manager
P.O. Box 32578
Louisville, KY 40232
(502)969-2304 (voice)
(866)247-4827 (fax)
www.clcair.com
jpayne@clcair.com
110

Complete Analysis Laboratories

Dr. Zvi Blank, President
1259 Route 46, Bldg. #4
Parsippany, NJ 07054
(973)335-2254 (voice)
(973)335-0556 (fax)
www.calilabs.com
calilabs@earthlink.net
21A

Cosa Instrument Corporation

Marketing Manager
55 Oak St
Norwood, NJ 07648
(201)767-6600 (voice)
(201)767-9468 (fax)
www.cosaic.com
cosa@cosaic.com
5

CryoGas International

Agnes Horigan Baker, Editor
5 Militia Drive
Lexington, MA 02421
(781)862-0624 (voice)
(781)863-9411 (fax)
www.cryogas.com
abaker@cryogas.com
179

Daylight Chemical Information

Orlando Sanchez
Controller
120 Vantis, Ste#550
Aliso Viejo, CA 92656
(949)831-9990 (voice)
(949)831-9902 (fax)
www.daylight.com
info@daylight.com
54

Delsen Testing Laboratories

John Moylan, President
1024 Grand Central Avenue
Glendale, CA 91201
(818)247-4106 (voice)
(818)247-4537 (fax)
www.delsen.com
johnmoylan@delsen.com
80B

DigiPol Technologies

Patrick O'Keefe, Vice President
400 Morris Ave, Suite 120
Denville, NJ 07834
(973)983-6700 (voice)
(973)983-6290 (fax)
www.digipoltechnologies.com
sales@digipoltechnologies.com
7,8,9,12C,24,42,44,148

Eastern Scientific Co.

Tom James, General Manager
301 Winter Street Unit E
Hanover, MA 02339
(781)826-3456 (voice)
(781)826-3448 (fax)
www.easternsci.com
easternsci@aol.com
100,109,112,129,137

EDAX Inc

Del Redfern
Regional Manager Americas
91 McKee Dr
Mahwah, NJ 07430
(201)529-6184 (voice)
(201)529-3156 (fax)
www.edax.com
del.redfern@ametec.com
89

EMD Chemicals

Customer Service
480 South Democrat Road
Gibbstown, NJ 08027
(800)854-3417 (voice)
(856)336-4422 (fax)
www.emdchemicals.com
leslie.ferguson-harris@
emdchemicals.com
37

EquipNet Inc.

Sean Larkin, Sales Manager
50 Hudson Road
Canton, MA 02021
(888)371-6555 (voice)
(617)671-1269 (fax)
www.equipnet.com
slarkin@equipnet.com
12C,12D,12DA,64,66,89,
97,100,101,107,109, 110, 114,
118,119A,125,127,129,132,138,
172

Erlab Inc.

J. Griffin
Marketing Manager
388 Newburyport Turnpike
Rowley, MA 01969
(978)948-2216 (voice)
(978)948-3354 (fax)
www.erlab.com
jgriffin@erlab.com
107A

Fiveash Data Management

Gary Wolfe
Marketing Manager
Madison, WI
(608)2-36-9 (voice)
(608)236-9170 (fax)
www.fdm spectra.com
gwolfe@fdmspectra.com
169,174

Fluitron Inc.

Anthony Ciccarine, President
30 Industrial Drive
Ivyland, PA 18974
(215)355-9970 (voice)
(215)355-9074 (fax)
www.fluitron.com
info@fluitron.com
95,97,127,129

Frinton Laboratories, Inc.

Dr. George Inglessis
Director
4204 Sylon Blvd.
Hainesport, NJ 08036
(856)722-7037 (voice)
(856)439-1977 (fax)
www.frinton.com
frinton@frinton.com
28

Future Science Group

Craig Canham
Marketing Manager
Unitec House, 2 Albert Pl.
London, UK
www.future-science-group.com
info@futuremedicine.com
179

Galbraith Laboratories, Inc.

Ima Proffitt
Customer Relations Rep.
P.O. Box 51610
Knoxville, TN 37952
(877)449-8797 (voice)
(865)546-7209 (fax)
www.galbraith.com
labinfo@galbraith.com
12C,12D,12F,12G,21A,22,23,24,
65A,69,74,74B,80,80B,81,90,
145,147

GEA Process Engineering Co.

Mads Skaarenborg
Marketing Manager
9165 Rumsey Road
Columbia, MD 21045
(410)997-8700 (voice)
(410)997-5021 (fax)
www.niroinc.com
info@niroinc.com
16,31,40,66,97,106,107,109,
110,112,118,128,132

GEA Westfalia Separator

Sean Eicher
Market Manager
100 Fairway Court
Northvale, NJ 077647
(201)767-3900 (voice)
(201)767-3416 (fax)
www.wsus.com
sean.eicher@geagroup.com
100

Gelest Inc.

Gabrielle Horvath
Sales & Marketing Associate
11 East Steel Rd.
Morrisville, PA 19067
(215)547-1015 (voice)
(215)547-2484 (fax)
not available
ghorvath@gelest.com
13,15,26,27A,28,32B,33,34,35A,
35B,38,146,147

Glas-Col LLC

Jenny Samm
Sales & Marketing Specialist
711 Hulman Street
Terre Haute, IN 47802
(812)235-6167 (voice)
(812)234-3121 (fax)
www.glascol.com
jsamm@glascol.com
114

GOW-MAC Instrument Co.

Sales Dept.
277 Brodhead Rd.
Bethlehem, PA 18017
(610)954-9000 (voice)
(610)954-0599 (fax)
www.gow-mac.com
sales@gow-mac.com
42A,84A,85,86,87A

HT Laboratories, Inc.

Jian Zsu
Manager
9823 Pacific Heights Blvd, Ste F
San Diego, CA 92121
(858)677-9432 (voice)
(858)677-0240 (fax)
www.HT-LABS.COM
info@ht-labs.com
12

*(continued on page 32)**Celebrate*

www.emdchemicals.com/analytcs

Does EMD know anything
about ACS Reagents?

You might say we're
in tune with your needs.

EMD offers a diverse range
of ACS products that perform.

The quality of our solvents
plays second fiddle to no one.

That's what's in it for you. EMD Chemicals



BUYER'S GUIDE - Company Directory

(continued from page 31)

Huffman Laboratories Inc.

Bill Huffman, President
4630 Indiana St.
Golden, CO 80403-1849
(303)278-4455 (voice)
(303)278-7012 (fax)
www.huffmanlabs.com
khuffman@huffmanlabs.com
24,69,145

ICF International

Kevin Palaia, Principal
33 Hayden Avenue, 3rd Floor
Lexington, MA 02421
(781)767-4000 (voice)
(781)676-4005 (fax)
www.icfi.com
kpalaia@icfi.com
66

ICON (Isotope) Services Inc.

John Kilby
Marketing Manager
19 Ox Bow Lane
Summit, NJ 07901
(908)273-0449 (voice)
(908)273-2956 (fax)
www.iconisotopes.com
iconisot@juno.com
35

Impandex Inc.

Stanley Goldberg, Manager
220 Delawanna Avenue
Clifton, NJ 07014
(973)777-0777 (voice)
(973)777-0070 (fax)
www.glenmills.com
stanley@glenmills.com
16

Inorganic Ventures

Brian Brolin
Director of Sales & Marketing
300 Technology Drive
Christiansburg, VA 24073
(540)585-3030 (voice)
(540)585-3012 (fax)
www.inorganicventures.com
info@inorganicventures.com
39

International Center Diff Data

Helen McDonnell
Marketing Administrator
12 Campus Blvd.
Newton Square, PA 19073
(610)325-9814 (voice)
(610)325-9823 (fax)
www.icdd.com
mcdonnell@icdd.com
56

International Crystal Labs

Robert Herpst, President
11 Erie Street
Garfield, NJ 07026
(973)478-8944 (voice)
(973)478-4201 (fax)
www.internationalcrystal.net
iclmail@internationalcrystal.net
171

International Equip Trading

Sara Schell
Sales Manager
960 Woodlands Parkway
Vernon Hills, IL 60061
(847)913-0777 (voice)
(847)913-0785 (fax)
www.ietltd.com
sales@ietltd.com
172

JASCO

Harriet Mills
Marketing Manager
28600 Mary's Court
Easton, MD 21601
(410)822-1220 (voice)
(410)822-7526 (fax)
www.jascoinc.com
customerservice@jascoinc.com
165A

JEOL USA Inc.

Robert DiPasquale
Sales Manager
11 Dearborn Road
Peabody, MA 01960
(978)536-2273 (voice)
(978)536-2205 (fax)
www.jeolusa.com
dipas@jeol.com
172

Key Synthesis LLC

Ron Bihovsky, PhD, President
804 Primrose Lane
Wynnewood, PA 19096
(610)357-3281 (voice)
www.keysynthesis.com
info@keysynthesis.com
28,35B,38

Kimble Chase LLC

Kelly Williams
Director Channel Marketing
1022 Spruce Street
P.O.Box1502
Vineland, NJ 08360
(856)205-7143 (voice)
(856)692-8134 (fax)
www.kimble-chase.com
K.Williams@kimble-chase.com
114

KNF Neuberger Inc.(USA)

Richard Rauth
Manager, Mktg Communications
2 Black Forest Road
Trenton, NJ 08691-1810
(609)890-8600 (voice)
(609)890-8323 (fax)
www.knflab.com
knfusa@knf.com
114,129,137

LabChem Inc

Leroy House, President
200 William Pitt Way
Pittsburgh, PA 15238
(412)826-5230 (voice)
(412)826-5234 (fax)
labchem.net
leroyh@labchem.net
37

Lorelli & Co. Inc.

Lorelli Charles, President
1 Point Prospect Place
Chapel Hill, NC 27514
(919)967-1120 (voice)
(919)869-1660 (fax)
www.chemicaldeals.com
Lorelli@chemicaldeals.com
105A

Lumex Intl.

Nikolay Sveshnikov
President
14th Street North, Ste #212
Arlington, VA 22201
(703)243-7103 (voice)
(703)243-3771 (fax)
www.lumexint.com
info@lumexint.com
167

M&P Lab

Mary Ann Arcesi
Client Services Manager
PO Box 724
Schenectady, NY 12301
(518)382-0082 (voice)
(518)382-1182 (fax)
www.the-mandp-lab.com
arcesim@the-mandp-lab.com
23

Mass-Vac, Inc.

David Rolph
Sales Manager
247 Rangeway Rd. P.O.Box 359
N. Billerica, MA 01862-0359
(978)667-2393 (voice)
(978)671-0014 (fax)
www.massvac.com
droolph@massvac.com
137

BUYER'S GUIDE - Company Directory

Metabolic Solutions Inc.

David Wagner Ph.D., President
460 Amherst Street
Nashua, NH 03063
(603)598-6960 (voice)
(603)598-6973 (fax)
www.metsol.com
david@metsol.com
12D

Micron Inc.

James Ficca Jr., President
3815 Lancaster Pike
Wilmington, DE 19805
(302)998-1184 (voice)
(302)998-1836 (fax)
www.micronanalytical.com
micronanalytical@
compuserve.com
23,65A,69,80B,88,89,91

MIRWEC Film - Coating Division

Ryo Yamanami
Coating Manager
601 Liberty Drive
Bloomington, IN 47403
(812)331-7194 (voice)
(812)331-1119 (fax)
www.mirwecfilm.com
coating@mirwecfilm.com
49

Nacalai USA Inc.

Ono Toshi
6640 Lusk Blvd. Ste: A200
San Diego, CA 92121
(858)404-0403 (voice)
(858)404-0408 (fax)
www.nacalaiusa.com
info@nacalaiusa.com
37,38,42,44

Nanoscience Instruments Inc.

Joseph Grech
Marketing Director
9831 South 51st St. Suite C119
Phoenix, AZ 85044
(480)940-3940 (voice)
(480)940-3941 (fax)
www.nanoscience.com
jgrech@nanoscience.com
144C

New Era Enterprises Inc.

Frank Bosco, President
P.O. Box 747
Vineland, NJ 08362-0747
(800)821-4667 (voice)
(856)697-8727 (fax)
www.newera-spectro.com
cs@newera-spectro.com
12H,41,93,105A,135A,171

New Jersey Inst. of Technology

Larisa Krishtopa
Laboratory Director
138 Warren Street
Newark, NJ 07102
(973)596-5858 (voice)
(973)642-7170 (fax)
www.ycees.njit.edu/labs
larisa.g.krishtopa@njit.edu
12H

Newark Wire Cloth Company

Richard W. Campbell, President
160 Fornelius Avenue
Clifton, NJ 07013
(800)221-0392 (voice)
(973)778-4481 (fax)
www.newarkwire.com
info@newarkwire.com
110

NuMega Resonance Labs Inc.

Frances Shen, Vice President
11526 Sorrento Valley Rd, SteB2
San Diego, CA 92121
(58)793-6057 (voice)
www.numegalabs.com
numegalab@numegalabs.com
12H

On Assignment Lab Support

Daniel McGowan
Senior Account Executive
One New Eng Exec
Park, Ste#101
Burlington, MA 01803
(781)229-2505 (voice)
(877)261-1876 (fax)
www.onassignment.com
Daniel.McGowan@
onassignment.com
57A

Patterson-Kelley

David Owens, Sales Manager
100 Burson St., Suite A
E. Stroudsburg, PA 18301
(570)730-4757 (voice)
(570)730-4767 (fax)
www.pkblenders.com
info@pkblenders.com
97

Phenomenex

Karen Brauneck
Corporate Communications Mgr.
411 Madrid Avenue
Torrance, CA 90501-1456
(310)212-0555 (voice)
(310)328-7768 (fax)
www.phenomenex.com
karenb@phenomenex.com
42A

Poly(Chem-Tech)

Daniel Kruh Ph.D.
President
8 Braddock
East Brunswick, NJ 08816
(732)238-3182 (voice)
(732)238-3182 (fax)
dankruh@aol.com
65,75,76

Polymer Standards Ser USA Inc

Clara Trimmer
Marketing Manager
43 Jefferson Blvd. Ste.3
Warwick, RI 02888
(401)780-8884 (voice)
(401)780-8824 (fax)
www.pssgpcshop
info@pssgpcshop
12DA,15,21B,25B,42,44A,46A,
65A,75,80B,179C

Polysciences Inc.

Bob Gleim
Catalog Business Develop. Mgr.
400 Valley Rd.
Warrington, PA 18976
(215)343-6484 (voice)
(800)343-3291 (fax)
www.polysciences.com
rgleim@polysciences.com
38

ProScience Analytical Svs

Valeri Stanca, PhD
Lab Director
22 Cummings Park
Woburn, MA 01801
(781)935-3212 (voice)
(781)932-4857 (fax)
www.proscience.net
valerica.stanca@proscience.net
23

Quartz Plus Inc.

Joseph Thomas
Vice President
27 Westview Road
Brookline, NH 03033
(603)673-5690 (voice)
(603)673-5766 (fax)
www.quartzplus.com
jthomas@quartzplus.com
116

(continued on page 34)

BUYER'S GUIDE - Company Directory

(continued from page 33)

Rice Lake Weighing Systems

US Sales and Product Info
Marketing Manager
230 West Coleman
P.O. Box 272
Rice Lake, WI 54868
(715)234-9171 (voice)
(715)234-6967 (fax)
www.ricelake.com
prodinfo@ricelake.com
12B

Richard Scientific

Richard Devereaux
President
448 Ignacio Blvd., #480
Novato, CA 94949
(415)883-7690 (voice)
(415)382-1922 (fax)
www.richardscientific.com
richard@richardscientific.com
46

Richman Chemical Inc.

Chris Kulp
Manager New Business Develop
768 N. Bethelham Pike
Lower Gwynedd, PA 19002
(215)628-2946 (voice)
(215)628-4262 (fax)
www.richmanchemical.com
clk@richmanchemical.com
28

Robertson Microlit Labs.

Neale Danridge
1705 U.S. Highway 46, Suite 1D
Ledgewood, NJ 07852
(973)966-6668 (voice)
(973)966-0136 (fax)
www.robertson-microlit.com
Neale.Danridge@
robertson-microlit.com
21A

Rocky Mountain Instruments Lab

R Klantz
Marketing Manager
108 Coronado Ct.
Ft. Collins, CO 80525
(970)266-8108 (voice)
(303)530-1169 (fax)
www.rockylab.com
rklantz@rockylab.com
19

Scientific Asset Management

Christopher McManemin
Marketing Manager
99 Lurline Drive
Basking Ridge, NJ 07920
(908)604-1417 (voice)
www.gotosam.com
gotosam@gotosam.com
14

Sepax Technologies

Xueying Huang
VP Sales
5 Innovation Way
Newark, DE 19711
(302)366-1101 (voice)
(302)366-1151 (fax)
www.sepax-tach.com
xhuang@sepax-tech.com
44

Setaram Inc.

Marianne Rivera
Sales and Marketing Coord
8430 Central Ave. Suite 3D
Newark, CA 94560
(510)793-3345 (voice)
(510)402-4705 (fax)
www.setaram.com
setaramincsales@setaram.com
25

Signatec Inc.

Tom Wagner
Director of Marketing
1138 East 6th Street
Carona, CA 92879
(949)729-1084 (voice)
(951)734-4356 (fax)
www.sitnatec.com
sales@signatec.com
21

Societe de Chimie Industrielle

Danielle Fraser
The Academy Group
1895 Post Road
Fairfield, CT 06824
(212)725-9539 (voice)
www.theacademygroup.com
fraser@theacademygroup.com
179B

Sorbent Technologies Inc.

Kendra Wise
Marketing Manager
5955 Peachtree Corner East A
Norcross, GA
(770)936-0323 (voice)
www.sorbtech.com
kwise@sorbtech.com
41

Spectral Data Services

Gary Turner
President
818 Pioneer
Champaign, IL 61820
(217)352-7084 (voice)
(217)352-9748 (fax)
www.sdsnmr.com
sdsnmr@sdsnmr.com
72

Spectrum Chemicals & Lab

Prods
Larry Hilton PhD
Director of Marketing
14422 South San Pedro Street
Gardena, CA 90248
(800)772-8786 (voice)
(800)525-2299 (fax)
www.spectrumchemical.com
lhilton@spectrumchemical.com
37

Supercritical Fluid Tech. Inc.

Kenneth Krewson
VP Sales & Marketing
1 Innovation Way, Suite 303
Newark, DE 19711
(302)738-3420 (voice)
(302)738-4320 (fax)
www.supercriticalfluids.com
ken.krewson@
supercriticalfluids.com
127

Taylor Technologies Inc.

Jody O'Grady
Manager Customer/Tech
Support
31 Loveton Circle
Sparks, MD 21152
(800)837-8548 (voice)
(410)771-4291 (fax)
www.taylor technologies.com
customerservice@
taylor technologies.com
12A

TCI America

Michelle Anselmo
Reagent Sales Manager
9211 N. Harborgate Street
Portland, OR 97203
(503)283-1681 (voice)
(503)283-1987 (fax)
www.tciamerica.com
michelle.anselmo@
tciamerica.com
13,25A,26,27A,28,32B,34,35A,
35B,37,38,44

BUYER'S GUIDE - Company Directory

Techne Inc.

Christian Dyott
Product Manager
3 Terri Lane Suite #10
Burlington, NJ 08016
(609)589-2560 (voice)
(609)589-2571 (fax)
www.techneusa.com
cdyott@techneusa.com
176

Temple University

Richard Lancioni
Marketing Manager
Ritter#425,1301 Cecil Moore Av
Philadelphia, PA 19122-xxxx
(215)204-8149 (voice)
(215)204-5130 (fax)
www.temple.edu
richard.lancioni@temple.edu
179B

The Laboratory Safety Inst.

James Kaufman PhD
President & CEO
192 Worcester Road
Natick, MA 01760
(508)647-1900 (voice)
(508)647-0062 (fax)
www.labsafetyinstitute.org
info@labsafetyinstitute.org
79

TRI/Princeton

Eleanor Lehman
Marketing Manager
601 Prospect Ave., PO Box 625
Princeton, NJ 08540
(609)430-4820 (voice)
(609)683-7149 (fax)
www.triprinceton.org
info@triprinceton.org
65

Tripos Inc.

Jamie Niemczyk
Marketing Dept
1699 S. Hanley
St. Louis, MO 63144
(314)951-3271 (voice)
www.tripos.com
contact_us@tripos.com
56

Tyger Scientific Inc.

Adam Yuan
Marketing Manager
324 Stokes Avenue
Ewing, NJ 08638
(609)434-0144 (voice)
(609)434-0143 (fax)
www.tygersci.com
sales@tygersci.com
35B

U.S. Services Inc.

John Kilby
Marketing Manager
19 Ox Bow Lane
Summit, NJ 07901
(908)273-0440 (voice)
(908)273-2956 (fax)
www.iconisotopes.com
iconisot@juno.com
172

Utility Development Corp.

Harry Katz
President/Plastics Consultant
112 Naylor Ave.
Livingston, NJ 07039
(973)994-4334 (voice)
(973)994-3341 (fax)
www.udccorp.com
harryskatz@aol.com
77

VACUUBRAND Inc.

Peter Coffey
VP Sales & Marketing
11 Bokum Rd.
Essex, CT 06426-1476
(860)767-5341 (voice)
(860)767-2563 (fax)
www.vacuubrand.net
pcoffey@vacuubrand.net
129,137

Variomag-USA

Gary Sander
Manager
PO Box 214769
Daytona Beach, FL 32121-4769
(386)761-6422 (voice)
(386)760-0960 (fax)
www.variomag.com
variomag@aol.com
97,119

VHG Labs

Mary Csakai, Marketing
276 Abby Road
Manchester, NH 03103
(603)622-7660 (voice)
(603)622-5180 (fax)
www.vhglabs.com
maryc@vhglabs.com
24

Zinsser North America

Tom Umbhauer
Regional Sales Mgr
19145 Parthenia St Ste #C
Northridge, CA 91324
(818)341-2906 (voice)
(818)341-2927 (fax)
www.zinsserna.com
info@zinsserna.com
146



Professional/Product Directory

NJIT
New Jersey's Science & Technology University

MATERIAL CHARACTERIZATION LABORATORY • A Unique Combination of State-of-the-Art Analytical Instruments and Expertise

GC/MS • HPLC • LC/MS • FTIR • TOC • AA
ICP-MS • XRD • XRF • AFM • SEM • TEM

York Center for Environmental Engineering & Science
www.ycees.njit.edu/labs

138 Warren Street
Newark, NJ 07102

Tel: (973)-596-5858
Fax: (973) 642 7170



Eastern Scientific
www.easternsci.com
781-826-3456

Vacuum Pump Problems?

Eastern Scientific specializes in the repair and precision rebuilding of all makes of mechanical vacuum pumps.



Free pick-up & delivery
Restrictions apply

NMRService 500MHz

*Mass

*Elemental Analysis

NuMega Resonance Labs

numegalabs.com P- 858-793-6057

Elemental Analysis

CHNOS ash
ICP • AA • ICP/MS
TOC • TOX • BTU
Problem Solving

HUFFMAN

LABORATORIES, INC.

Quality Analytical Services Since 1936

Phone: (303) 278-4455

FAX: (303) 278-7012

chemistry@huffmanlabs.com

www.huffmanlabs.com



RECRUITING WEB SITE LISTING DIRECT TO YOUR SITE

There are two important ways to recruit through our services. One is to place a print ad in the Indicator. The other is to place a web site ad reaching out to 40,000 ACS members. We recommend using both low cost methods.

You can view both of these opportunities by going to the link below.

Who uses these options?

- Companies for lab, management and sales personnel
- University & College teaching positions
- Hospitals for technical and research personnel

We provide more qualified resumes because of the highly targeted technical audience.

info -- www.mboservices.net

TELL OUR ADVERTISERS

Membership surveys show that you want more articles in our newsletter. If you tell our advertisers that you saw their ad here, they will provide more financial support and this will allow us to add more articles.

Ad Index

ANALYTICAL

EMD Chemicals	31
Huffman Laboratories, Inc.	36
Micron Inc.	15
Nacalai USA Inc.	25
New Jersey Institute of Technology	36
NuMega Resonance Labs.	36
Robertson Microlit Labs	16
Vacuubrand, Inc.	4

EQUIPMENT

Bucchi Corporation	2
Eastern Scientific Co.	36
Mass Vac, Inc.	2

GENERAL

ACS-NY/NoJ Sections	7
ACS-NY/NoJ Sections	36
ACS-NY/NoJ Sections	36