48th Regional Buyer’s Guide
See pages 18-27.

Nichols Medal Report and Pictures
See pages 10-11.
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### June Calendar

#### NEW YORK SECTION

- **Thursday, June 4, 2009**
  - Chemical Marketing & Economics Group
  - See page 7.

- **Friday, June 5, 2009**
  - New York Section Meeting
  - See page 7.

- **Friday, June 5 and Thursday, June 9, 2009**
  - Long Island Subsection
  - See page 8.

#### NORTH JERSEY SECTION

- **Thursday, June 4, 2009**
  - Careers in Transition
  - See page 12.

- **Friday, June 5, 2009**
  - ChemTAG Meeting
  - See page 12.

- **Tuesday, June 9, 2009**
  - Teacher Affiliates Executive Committee
  - See page 12.

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

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**Deadline for items to be included in the September 2009 issue of The Indicator is July 15, 2009.**

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**Education**

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In the first of this two-part series on Max Planck, I sketched his career to the point where, in 1897, he began to work on explaining the phenomena of black-body radiation, a problem that had challenged some of the best physicists of the day and that they had failed to solve. At first, he tried combining electrodynamics and thermodynamics, but Boltzmann correctly criticized Planck’s formulation. Planck then successfully combined Wien’s work with that of Rayleigh and Jeans, but a satisfactory physical explanation was still lacking.

When Planck tried to apply Boltzmann’s statistical formula for entropy to the problem, he found he had to assume that the enclosure walls were composed of electrodynamic oscillators, which could only emit energy that was not infinitesimally variable but was connected to the oscillator frequency by the now-famous formula \( E = h\nu \), where \( h \) is what Planck called a quantum of action. Later generations dubbed it Planck’s constant. Planck obtained a value for \( h \) from experimental data that is close to the currently accepted value. He introduced these new ideas in two presentations to the German Physical Society in Berlin on October 19 and December 14, 1900. Their impact was to be felt throughout 20th-century science.

At first, however, Planck’s novel view of radiation, while it was agreed to be interesting, was viewed as a kind of formalism: a way of accounting for the data without necessarily providing a fundamental physical explanation of the phenomena underlying it. Boltzmann was impressed, and Planck himself is supposed to have told one of his sons that he had made a discovery that was in the class of one of Newton’s. But he was still trying classical approaches to the problem until finally, toward the end of his career, he wrote: “My vain attempts to somehow reconcile the elementary quantum with classical theory continued for many years and cost me great effort. … Now I know for certain that the quantum of action has a much more fundamental significance than I originally suspected.”

That significance was first postulated by the obscure patent clerk in Switzerland, Albert Einstein, in his wonder year of 1905. He broadened the quantum approach to radiation by applying it to all radiation, inventing the photon as a particle of radiation—a collection of which sometimes behaves as a wave! Planck trumps Maxwell. With this revolutionary idea, Einstein was able to explain another familiar physical phenomenon, originally described by Hertz, which like black-body radiation had eluded the net of classical physics, namely, the photoelectric effect. Quantum theory was on its way to being accepted as one of the great foundational ideas of science, and Planck was awarded the Nobel Prize for Physics in 1918 and received many honorary degrees and fellowships.

Planck’s personal life was not easy. His first wife, with whom he had four children, died in 1909, and three of those children died during World War I, a son at the Front and two daughters in childbirth. He remarried and had another son. When Hitler came to power in 1933, Planck was 75. He accepted the Presidency of the Kaiser Wilhelm Society (now known as the Max Planck Society), hoping to modify the views of the new Fuhrer toward some scientists, but in vain. Planck’s surviving son from his first marriage, Eric, was executed by the Nazis for his part in the July 1944 plot against Hitler. The Planck family house was destroyed during the bombardment of Berlin, but Planck was escorted by American forces to Goettingen in West Germany, where he lived until his death on October 4, 1947, just a few months short of his 90th birthday.

This article has been greatly aided by the following sources: A Biographical Dictionary of Scientists, Trevor I. Williams, Ed., Wiley, 1982; From X-rays to Quarks, Emilio Segre, Freeman, 1980; and The Strange Story of the Quantum, Banesh Hoffmabnn, Dover, 1959.
JUNE HISTORICAL EVENTS IN CHEMISTRY

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

June 1, 1907
Frank Whittle designed and patented a jet aircraft engine. Hans von Ohain and Sir Frank Whittle are both recognized as being the co-inventors of the jet engine.

June 4, 1834
One hundred and seventy-five years ago, Jacob Volhard was born. He did research in organic synthesis, including creatine, brominated organic acids, and thiophene compounds.

June 6, 1943

June 7, 1811
James Y. Simpson, an obstetrician who was first to use chloroform as an anesthetic and introduced the use of ether in Great Britain.

June 10, 1832
Nikolaus A. Otto invented and patented four-stroke internal-combustion engine (first practical alternative to steam engine as a power source).

June 13, 1923
Lloyd Conover, invented tetracycline; US patent 2,699,054.

June 14, 1965
The paper “Hard and Soft Acids and Bases” by Ralph G. Pearson, which was published in the Journal of American Chemical Society (1965, 83, 3533), was received on this date.

June 16, 1897
Georg Wittig, a researcher in conversion of C=O to C=C (Wittig reaction), was born. He shared the Nobel Prize of 1979 with Herbert C. Brown for their development of the use of boron- and phosphorus-containing compounds, respectively, into important reagents in organic synthesis.

June 18, 1870
Charles Baskerville developed processes for refining & hydrogenation of oils, plastic compositions, & reinforced lead; researcher in anesthetic chemistry.

June 20, 1944
L. B. Magnusson and T. J. La Chappelle isolated first microscopic quantity of compound of neptunium (Np, 93) at wartime Metallurgical Laboratory at University of Chicago.

June 23, 1775
Two hundred years ago in 1809, Etienne-Louis Malus discovered the polarization of light. The next year, he developed the theory of double refraction of light in crystals and was born on this date.

June 25, 1864
Walther H. Nernst, who was born on this date, elucidated the theory of galvanic cells in 1889. In the same year, he derived equations by which solids precipitate from saturated solutions. Seven years later, he discovered the 3rd Law of Thermodynamics. He developed an atomic chain reaction theory, 1918, an improved electric lamp (Nernst lamp) and an electric piano (which did not gain acceptance of musicians). In 1920, he received the Nobel Prize in recognition of his work in thermochemistry.

June 26, 1694
Georg Brandt, discovered cobalt (Co, 27), 1735; one of the first chemists to abandon alchemy as a science.

June 27, 1909
One hundred years ago, Arthur Clay Cope was born. He was a researcher in synthetic organic chemistry including medium-sized ring compounds.

June 28, 1825
Richard A. C. M. Erlenmeyer, researcher in synthesis of aliphatic compounds, isobutyric acid & guanidine; invented “Erlenmeyer” flask.

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

ACS NEW YORK SECTION
MEETINGS FOR 2009

The Board of Directors Meetings for the New York Section in 2009 are as follows:

Friday, June 5, 2009
September 11
November 13

The regular Board Meetings will be held at St. John’s University, 8000 Utopia Parkway, Jamaica, NY. These meetings are open meetings and all are welcome. If you are not a member of the Board of Directors and wish to attend please inform the New York Section Office at 516-883-7510 or njesper1@optonline.net.

CHEMICAL MARKETING & ECONOMICS GROUP

Finding the Upside in the Downturn

Speakers: Eric Vogelsberg
Senior Vice President and
Global Practice Leader
Chemicals & Materials
Kline & Co.

and

Tom Aldred
Director of Performance
Improvement
Kline & Co.

The chemicals industry is no stranger to business cycles. But this downturn arrived four years too early. The cratering of demand led by automotive and construction is exerting severe downward pressure on capacity and headcount. Even lipstick sales fell 5%, invalidating the 50-years old Lauder theory that in tough times, consumers turn to affordable indulgences like cosmetics. Mergers groaning under out-size debt burdens and financial exits that counted on rosy earnings face grim choices. Demand recovery from a downturn at least as deep as the one in 1982-83, is several years away.

Sudden and severe impacts such as this, wipe out dinosaurs and make room for new species. What is the new climate going to be, and what will make for survival? Kline will share their perspective on how to find the upside in the downturn and what chemical companies need to do to weather the current global economic downturn.

Speakers: Eric Vogelsberg is Senior VP at Kline & Company with responsibility for the management and growth of the firm’s Chemical and Materials Practice, and Kline’s M&A activities supporting clients in growth and diversification. During his 25 years with Kline, Eric has assisted clients in the development of creative, pragmatic strategies for growth and performance, and has been directly involved in many completed chemicals M&A deals and post deal integration activities. Prior to Kline, Eric was with Hercules in their Electronic and Printing Products Division, and earlier, with the Harshaw Chemical Company, now part of Arkema. He is a frequent contributor to Chemical Week and ICIS Chemical Business. He holds an MBA in Chemical Marketing from Fairleigh Dickinson University and a BS in Chemistry from St. Francis College, NY.

Tom Aldred is a director in Kline Management Consulting’s strategy practice at Kline’s headquarters in Little Falls, NJ. His projects in global strategy development, performance improvement, and market research over the last 12 years have been in diverse industries such as paper, metals, chemicals manufacture, inks/coatings, rubbers/plastics and restaurants. Prior to Kline, Tom was with Accenture’s Solution Engineering and Strategy and Business Architecture practices, and at National Starch and Chemicals in the adhesives division. Tom has a BS in chemical engineering from The Pennsylvania State University.

Date: Thursday, June 4, 2009
Times: Cocktails 11:30 AM
Luncheon 12 noon
Presentation 1:15 PM
Place: Club Quarters
40 West 45th Street
(between Fifth and Sixth Avenues)
New York, NY
Cost: $45 for Members who reserve by
Tuesday, June 2nd. $55 for
Guests and Members (at door without reservations)

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LONG ISLAND SUBSECTION
JOINT MEETING WITH
DOWLING COLLEGE

National Science Foundation Symposium
Featuring: Dr. Paul Bishop
Keynote Speakers: Robert J. Gaffney
President
Dowling College
Hon. Steve Israel
House of
Representatives
(To be confirmed)

Dr. Paul Bishop, program director from the National Science Foundation, will lecture from his personal research and findings related to the topics of science and the environment. Additionally, Dr. Bishop will provide an insiders’ view on the prospects of grant making and seeking as well. Dr. Bishop will be available for 1 on 1 fifteen minute meetings to be scheduled between the hours of 2:00 PM and 4:00 PM. Robert J. Gaffney and Representative Steve Israel will speak on science research and technology and its relationship to Higher Education. Light refreshments will be served.

Date: Friday, June 5, 2009
Time: 9:00 AM – 11:30 AM
Place: Fortunoff Hall Ballroom
Dowling College
Oakdale, NY

LONG ISLAND SUBSECTION
LI-ACS High School Award

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

This event will feature a seminar by Dr. Denton Ebel of the American Museum of Natural History who will speak about meteorites and their formation and properties.

Date: Thursday, June 9, 2009
Time: 6:00 PM
Place: St. John’s University
University Center Bldg.
The Commons Room

Contact: Ralph Stephani at stephanr@optonline.net or 718-990-5215.
For more information, visit the LI-ACS website at http://www.newyorkacs.org/sub_island.html.
SISTER MARY VIRGINIA ORNA RECEIVES ACS AWARD FOR VOLUNTEER SERVICE

On March 24, 2009, Sister Mary Virginia Orna of The College of New Rochelle was honored with the ACS Award for Volunteer Service to the American Chemical Society. Dr. Janan M. Hayes of the ACS Board of Directors presented the award at the 2009 Awards Program Ceremony and General Meeting of the Society. Sister Orna received the ACS award “For her unstinting service to the ACS, its Council and committees, the Divisions of Chemical Education and the History of Chemistry, her students and colleagues, and humanity.” The ACS New York Section congratulates Sister Mary Virginia Orna and appreciates her continuing dedication to the Society.

Sister Orna is presently Professor of Chemistry at the College of New Rochelle. She received her education first at Chestnut Hill College and her graduate studies were done at Fordham University in analytical chemistry. She has lectured and published widely in the areas of color chemistry and archaeological chemistry. She has presented plenary lectures and named lectureships on at least a dozen different occasions. She is a tour speaker on the roster of the American Chemical Society and has been an invited lecturer to every part of the United States and many countries in Europe and the South Pacific. Her more than 60 papers have appeared in the Journal of Chemical Education, Color Research and Application, Studies in Conservation, Analytical Chemistry, Microchemical Journal, Journal of Biological Chemistry, American Chemical Society monographs, and various other journals. She has also authored numerous book chapters and encyclopedia articles, three books and co-edited six others.

Sister Orna’s ACS activities include serving on all elected Council committees and on other committees, i.e. the Society Committee on Education, Divisional Activities Committee and the Committee on Meetings and Expositions. She is active in several divisions of the American Chemical Society, having served as Chair, Program Chair and Treasurer of the Division of the History of Chemistry. She is currently serving as ACS Councilor and a member of the ACS Council Policy Committee.

She received various awards: e.g., the Chemical Manufacturing Association’s Catalyst Award for excellence in college chemistry teaching, the 1989 CASE (Council for the Advancement and Support of Education) New York State Professor of the Year, National Gold Medalist Award, a recipient of the 1989 Merck Innovation Award, the James Flack Norris Award for Outstanding Achievement in the Teaching of Chemistry, ACS 1999 George C. Pimentel Award in Chemical Education, the 2008 Henry Hill Award, and the ACS 2009 Award for Volunteer Service.

As a hobby, Sister Mary Virginia enjoys constructing crossword puzzles and has been a frequent contributor to the Sunday New York Times, SciQuest, Clinical Chemistry News, American Laboratory, Today’s Chemist and other publications.
2009 WILLIAM H. NICHOLS MEDAL

The 2009 William H. Nichols Medal of the ACS New York Section was presented to Professor Carolyn R. Bertozzi of the University of California, Berkeley, at the Crowne Plaza Hotel, White Plains, NY on Friday March 13 2009. This is the 103rd Nichols Medal to be presented for distinguished research in chemistry. The gold medal was accompanied by a bronze replica and $5000.

Professor Bertozzi received the Nichols Medal "For New Chemical Methods for the Study and Control of Biological Processes." Her award acceptance address showcased her determination to succeed in the field of chemistry and the need for seeking and accepting challenges. Over 200 chemists from academia and industry enjoyed the day's events.

Among the distinguished attendees at the dinner were Dr. Thomas H. Lane, 2009 President of the American Chemical Society, Dr. Anne T. O'Brien, District 1 Director, as well as three generations of the Nichols Family, Mr. David Nichols and Mr. C. Walter Nichols III (great grandsons of William H. Nichols), Mr. Charles Nichols and Mr. Michael Nichols (great, great grandsons), Mrs. Sandra Nichols Nash (great, great granddaughter), and Mr. Gardner and Ms Whitney Nash (great, great, great grandchildren). Professor Howard Hang of The Rockefeller University introduced Professor Bertozzi at the Medal Award Dinner with a slide show emphasizing her love for science.

The award dinner was preceded by an excellent distinguished symposium that featured as speakers: Professors David Y. Gin, Memorial Sloan-Kettering Cancer Center; Alice Ting, MIT; Tom W. Muir, The Rockefeller University; and the Nichols Medalist Carolyn R. Bertozzi. The title of the distinguished symposium was Innovations in Chemistry Toward Advancing Biology.

The Nichols Medal was established in 1902 by Dr. William H. Nichols to honor a chemical scientist for outstanding original research and was awarded for the first time 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.
Dr. Barbara Hillery, NY ACS 2009 Chair, excelled in her role of emcee of Nichols Medal Ceremony.

Dr. Thomas H. Lane congratulated Dr. Bertozzi and extended heartfelt greetings on behalf of National ACS.

Dr. Bertozzi happily displays the Nichols Medal that she received at the Nichols Medal Award Dinner.

Medalist Carolyn Bertozzi enjoyed meeting the Nichols Family. From the left: Mr. David Nichols (great grandson of Dr. William Nichols), Mr. Charles Nichols, (great, great grandson), Mrs. Helga Nichols (wife of C. Walter Nichols III), Dr. Bertozzi, Mr. Gardner Nash (great, great, great grandson), Mr. C. Walter Nichols III (great grandson), Mrs. Sandy Nichols Nash (great, great granddaughter), Ms Whitney Nash (great, great, great granddaughter), Mr. Michael Nichols. (great, great grandson).

Dr. Neil Jespersen welcomed the great, great, great grandchildren of Dr. William H. Nichols to the reception. It was an honor to have 3 generations and 10 members of the family join with the NY Section for the awarding of the 103rd Nichols Medal.

Gathering prior to the award dinner, Dr. Thomas Lane (ACS President), Mr. Frank Romano (2009 NY ACS Chair elect), Dr. Tom Muir and Dr. David Gin (Symposium Speakers), Medalist Carolyn Bertozzi, Dr. Anne O’Brien (District 1 Director), Mr. David Nichols and Mr. C. Walter Nichols III, Dr. Barbara Hillery (2009 NY ACS Chair) and Dr. Howard Hang (Introducer)
EMPLOYMENT AND PROFESSIONAL RELATIONS COMMITTEE, NY 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.

Members can request job information or employers can advertise for free. They can contact me, Chair of the Professional and Employment Committee at hessytaft@hotmail.com if there is a job opening by employers or if a job seeker is looking for availability. The purpose of this mechanism is to put relevant people in contact who may not wish to give all their info on the web.

For job seekers, I would need their ACS member number, their latest degree, 3-5 words about their specialty/area of interest and about 1-2 lines on experience. For job posting, I would need a short description of the position available and the background required. 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.

North Jersey Meetings

http://www.njacs.org

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 meeting for the Careers In Transition Group will be held Thursday, June 4, 2009, 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 vjkuck@yahoo.com, if you plan on attending this meeting.

ChemTAG MEETING

Chemistry of Building Materials, Corrosion and Weathering

Presenter: Dr. George W. Scherer
Professor of Civil and Environmental Engineering

The presentation will be followed by a walking tour of Princeton Campus for visual evidence.

Date: Friday, June 5, 2009
Time: 4:00 – 6:00 PM
Place: Princeton University
Princeton, NJ

Contact: Cheryl Litman, (732) 256-2237
clitman@mail.nhtschoool.org

TEACHER AFFILIATES

Executive Committee Meeting

Date: Monday, June 8, 2009
Time: 4:30 PM
Place: Chatham High School
255 Lafayette Avenue
Chatham, NJ

Contact: Paul Sekuler
researchehs@hotmail.com

12 THE INDICATOR-JUNE 2009
CHEMISTRY OLYMPIAD

A total of 205 high school students from the NoJ Section were nominated by 23 teachers to take the 1st screening test of the US National Chemistry Olympiad held at FDU-College at Florham on March 25, 2009. From these, 10 students, listed below, were qualified to go on to the 2nd level testing, to be given on April 25.

The above screening is a yearly endeavor by the national ACS whose goal is to locate the top 20 high school chemistry students nation-wide. The top 20 will be invited to attend a two-week study camp in Colorado Springs, covering almost all aspects of chemistry. From this group, the four best will be chosen to compete as a team in the International Chemistry Olympiad, to be held in Cambridge, England on July 18-27, 2009.

Student	Teacher & High School
Yixiao Wang	Martha Bailey
Timothy Barnum	Michael Amendola
Christopher Varnerin	Michael Amendola
Utsarga S. Sikder	Theresa M. Farinella
Ajay Roopakalu	Theresa M. Farinella
Siddarth Viswanathan	Paul Kimmel
David Kolchmeyer	East Brunswick HS
David Zhao	Paul Sekular
Elan Kugelmass	Bergen County Academies
Ian Osborn	Bergen County Academies

GREEN DAY AT FAIRLEIGH DICKINSON UNIVERSITY

Green Day was a huge success as the Fairleigh Dickinson University community came together to discuss, share and celebrate the sustainability efforts on campus. The days events included nearly 100 student presentations, a keynote address given by Steve Morgan from JCP&L, a campus wide brainstorming session about how to be even more sustainable, workshops including topics like electronic waste and green energy, performances by the Melodies from Heaven Gospel Choir and the FDU Chorus, and finishing off with an awards ceremony and concluding remarks from Pres. Michael Adams. A green Vendor fair was also part of the days events where campus groups and local businesses and non profit organizations interacted with the FDU community. A great time was had by all. Photo is the student Green Day Planning Committee in front of the FDU rock painted for the Green Day event.

Melissa Collins, Nareen Hassan, Priyal Patel, Andy Koneski, Erika Baldino, Meha Sheth and Blair Lorenz.
ORGANIC TOPICAL GROUP

‘A Celebration of Organic Synthesis’ to Mark the 65th Birthday of Prof. Amos B. Smith III

Keynote Speaker: Prof. Amos B. Smith, III
Univ. of Pennsylvania

Speakers: Prof. John L. Wood
Colorado State University
Prof. Jon D. Fainier
University of Utah
Prof. Matthew Gaunt
University of Cambridge
Prof. Gary A. Sulkkowski
Vanderbilt University

Date: Thursday, August 13, 2009
Times: Registration 9:00 AM
Symposium 9:30 AM
Lunch 12:00 noon
Place: Rutgers University
Busch Campus
Science and Engineering Resource Center
118 Frelinghuysen Road
Piscataway, NJ
Cost: Symposium and Lunch $100.00
Due to limited seating, registration and payment are required by August 7, 2009.

For directions, information and on-line registration, please visit http://www.njacs.org/organic.html.

61st ANNUAL RESEARCH CONFERENCE

The Sixty-First Annual Research Conference of the Intercollegiate Council of the American Chemical Society Student Affiliate Chapters, North Jersey Section was held at Fairleigh Dickinson University on Friday April 24th. A total of nine presentations were given by students from the College of Saint Elizabeth, Drew University, Fairleigh Dickinson University, and the New Jersey Institute of Technology. The event was judged by Maureen Chan (formerly of Bell Labs), Kelly George (Roche), Bill Suits (ACS) and Sarah Young (Merck). A great time was had by all! The winners are:

Jean Asell Durana Award For Best Research Presentation
Ann Mularz and Dr. Mary-Ann Pearsal*
“Coordination of 1,6-Hexanediol in Triosmium Carbonyl Clusters”
Department of Chemistry, Drew University, Madison, NJ

Second Place Award
For Outstanding Research Presentation
Marc I. Lindner, Dr. Gloria T. Anderle* and Dr. Daniel J. Calcagnotti*
“Molecular Dynamic Simulations of _-Opioid Receptors and an Irreversible Opioid Antagonist _-Funaltrexamine”
Department of Chemistry & Pharmaceutical Science and the Department of Psychology, Fairleigh Dickinson University, Madison, NJ

Third Place Award
For Outstanding Research Presentation
Itsaso Auzmendi Murua, Rubik Asatryan, and Dr. Joseph W. Bozzelli*
“Gas Phase Mercury Conversion in H2, O2, Chloro and Bromo C1-Hydrocarbon and NOx Comustion Effluente from Use of an Elementary Kinetic Mechanism”
Department of Chemistry and Chemical Engineering, New Jersey Institute of Technology, Newark NJ

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THE INDICATOR-JUNE 2009
ACS BENEFITS FOR UNEMPLOYED MEMBERS

If you're an ACS member looking for work, you're not alone - ACS is here for you, with a host of valuable benefits and services to help get you back into the workforce. Here are some ways ACS can help you right now:

§ Get a special dues waiver – retain all membership benefits at no cost; for eligibility details, contact us with e-mail at service@acs.org, or by phone at 1-800-333-9511 or 1-614-447-3776

§ Register for free for ACS National Meetings and just $25 for Regional Meetings; network and attend the ACS Career Fairs with on-site interviews

§ Take advantage of special discounts for ACS/Harvard courses, ACS ProSpectives and Short Courses, and the ACS Leadership Development System

§ Join the ACS Network, your online resource to connect and communicate with friends, colleagues, and potential employers

§ Free Guidance from ACS Career Consultants – ACS mentors offer resume reviews, job search strategies, and interview tips that make you stand out from the rest

§ Members-only access to the ACS Salary Comparator

And that's just the beginning – you'll find a wealth of information about career development on the ACS Careers web site, as well as the ACS Careers Jobs Database. Contact ACS today to see how we can help – e-mail service@acs.org or call 800-333-9511 or 614-447-3776.

ACS LAUNCHES WEBCAM INTERVIEW

ACS has just launched a new service for job seeking ACS members. Through free access to InterviewStream you can now conduct a practice job interview online and get feedback on the interview.

All you need is a computer and webcam. At the site you can pick your question set and conduct a practice interview. You can then view your practice interviews and critique your interviewing skills.

Advice is also available from experts on how to approach certain questions, and how to avoid common interview mistakes.

To learn more about this service and to conduct an interview go to http://acs.interviewstream.com/home/.
Annual Symposium — Innovation and Entrepreneurships in Pharmaceutical and Chemical R&D

The symposium has had a track record of attracting R&D leaders and research-oriented business leaders from pharmaceutical and chemical companies in the Tri-State area, their counterparts from China, and Chinese-American chemical professionals. Many senior R&D leaders from BMS, Schering-Plough, Rohm & Haas, sanofi-aventis, and Wyeth had given keynote presentations in this venue in the past several years. The symposiums in 2006-2007 attracted over 200 attendees each and in 2008 the attendance soared to ~ 300.

CACS is a nonprofit organization with the purposes of promoting fellowship among Chinese chemical professionals, interactions between US and Greater China in chemical and pharmaceutical industries, and public appreciation of science. The theme of this year’s symposium is “Innovation and Entrepreneurships in Pharmaceutical and Chemical R&D”. You are welcome to check out our website at http://tristatecacs.org/ for additional information about our organization or programs. If you are interested in contributing to the symposium, please contact Dr. Duxi Zhang at duxi.zhang@yahoo.com; if you would like to contribute to CACS, please contact Dr. Fangbiao Li at fangbiaoli@hotmail.com. The registration is free for attending the meeting. Please check out our website for online registration.

Date: Saturday, June 13, 2009
Time: 8:30AM to 4:30 PM
Place: Busch Campus Center
Rutgers University
Piscataway, NJ
Call for Nominations

ACS NEW YORK SECTION’S OUTSTANDING SERVICE AWARD FOR 2009.

Each year since 1958 the New York Section presents an Outstanding Service Award to a most deserving member of the section. Many members of the New York Section provide their time, leadership talent, and educational skills to the New York Section. The tradition of excellence of the New York Section is attributable directly to the cumulative effect of these individuals. Please help the New York Section to recognize the efforts of our colleagues by nominating them for this award. Nominations will be reviewed by a committee consisting of the previous five winners of the award. The Outstanding Service Award for 2009 will be presented at the New York Section’s Section-wide Conference in January 2010.

Nominations with supporting data should be mailed to the OSA Committee Chair, Dr. Robert H. Beer, Department of Chemistry, Fordham University, 441 East Fordham Road, Bronx, NY 10458, or emailed to beer@fordham.edu.

For more information about the award along with a list of former award recipients, please visit the New York Section’s website at http://www.newyorkacs.org/awards_nyacs.html.

EDWARD J. MERRILL AWARD FOR OUTSTANDING HIGH SCHOOL CHEMISTRY TEACHER FOR 2010

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 2010.

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 George Gross, njmoxie1@verizon.net.
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 PRODUCTS & SERVICES DIRECTORY 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 21) 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.
### CHEMICALS

#### 24-Trace element analysis
- Galbraith Laboratories
- Huffman Laboratories, Inc.
- Libra Technical Center, LLC
- Robertson Microlit Labs.
- VHGI Labs

#### 25-Thermal analysis
- ATS RheoSystems
- Libra Technical Center, LLC
- Setaram Inc.

#### 25B-Calibration polymers
- Polymer Standards Ser., USA Inc.

#### 26-Catalysts
- Gelest Inc.

#### 27A-Chiral & custom chemicals
- Gelest Inc.
- Matrix Scientific
- TCI America

#### 28-Custom synthesis
- Bedoukian Research
- Gelest Inc.
- Matrix Scientific
- Polymer Standards Ser., USA Inc.
- Richman Chemical, Inc.
- Sarchem Laboratories Inc.
- TCI America

#### 32B-Hydrocarbons
- Gelest Inc.
- TCI America

#### 33-Inorganic chemicals
- Gelest Inc.

#### 34-Intermediates
- Gelest Inc.
- Matrix Scientific
- Oakwood Products Inc.
- TCI America

#### 35-Isotopes
- ICON (Isotope) Services Inc.

#### 35B-Organic Compounds
- Gelest Inc.
- Matrix Scientific
- Oakwood Products Inc.
- TCI America
- Tyger Scientific Inc.

#### 35A-Pharmaceutical intermediates
- Ash Ingredients, Inc.
- Gelest Inc.
- Matrix Scientific
- Sarchem Laboratories Inc.
- TCI America

#### 37-Reagents
- EMD Chemicals Inc.
- Oakwood Products Inc.
- Spectrum Chemicals & Lab Prods
- TCI America

### 38-Research Chemicals
- ChemBridge Corp.
- Dendritic Nanotechnologies, Inc.
- Gelest Inc.
- Libra Technical Center, LLC
- Matrix Scientific
- Oakwood Products Inc.
- Polysciences, Inc.
- TCI America

### Solutions, standard
- Inorganic Ventures

### CHROMATOGRAPHY

#### 41-Accessories & supplies
- Sorbent Technologies, Inc.

#### 42-Columns, prepacked
- Sorbent Technologies, Inc.

#### 42A-Chromatography
- Chiralizer Services, LLC
- ESA Biosciences, Inc.
- GOW-MAC Instrument Co.
- Sorbent Technologies, Inc.

#### 43-Gas
- Alpha Omega Technologies Inc.
- GOW-MAC Instrument Co.
- Libra Technical Center, LLC
- Sorbent Technologies, Inc.

#### 44-HPLC columns
- Nacalai USA Inc.
- Sepax Technologies
- Sorbent Technologies, Inc.
- YMC America, Inc.

#### 44A-SEC/GPC columns
- Polymer Standards Ser., USA Inc

#### 45-Ion
- Sorbent Technologies, Inc.

#### 46-Liquid
- Richard Scientific
- Sorbent Technologies, Inc.

#### 46A-Size exclusion
- Polymer Standards Ser., USA Inc

#### 47-Thin layer
- Sorbent Technologies, Inc.

### COMPUTER APPLICATIONS

#### 54-Information retrieval & review
- Daylight Chemical Information

#### 56-Software
- Abacalab
- CambridgeSoft Corp.
- Tripos, Inc.

### CONSULTING, MANAGEMENT

#### 57A-Executive Search
- Moe Reitman, Inc.
- On Assignment Lab Support

#### 58-Market research
- Contract Market Research

#### 59-Patents
- Banner & Witcoff, Ltd.

### CONSULTING SERVICES

#### 64-Chemical Process
- KulTech Incorporated

#### 65-Contract research
- KulTech Incorporated
- Libra Technical Center, LLC
- Poly(Chem-Tech)
- TRI/Princeton
- XenoBiotic Laboratories, Inc.

#### 65A-Contract testing laboratory
- Airborne Labs Intl. Inc.
- Atlantic Analytical Laboratory
- AT S RheoSystems
- Galbraith Laboratories

#### 66-Engineering
- GEA Process Engineering Co.
- ICF International

#### 68-Forensic analyses
- Cargille Laboratories
- Libra Technical Center, LLC

#### 69-Infrared analyses
- Galbraith Laboratories
- Huffman Laboratories, Inc.
- Libra Technical Center, LLC
- Micron Inc.

#### 72-NMR analysis
- Spectral Data Services
- XenoBiotic Laboratories, Inc.

#### 74-Organic chemistry
- Galbraith Laboratories

#### 74B-Pharmaceutical analysis
- Atlantic Analytical Laboratory
- Galbraith Laboratories
- Libra Technical Center, LLC
- XenoBiotic Laboratories, Inc.

#### 75-Polymers
- Poly(Chem-Tech)
- Polymer Standards Ser., USA Inc

#### 76-Product formulation
- Poly(Chem-Tech)

#### 77-R & D
- Libra Technical Center, LLC
- Utility Development Corp.
- XenoBiotic Laboratories, Inc.

#### 79-Safety
- The Laboratory Safety Inst.

#### 80-Spectroscopy
- Galbraith Laboratories

#### 80A-Technology transfer
- Business Development Intl.
| 80B-Testing Laboratory | Atlantic Analytical Laboratory  
Bioremediation Consulting Inc.  
Galbraith Laboratories  
Micron Inc. |
| 81-UV analysis | Galbraith Laboratories |
| 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 MICRO-PROBE |  
88-Electron Microprobe  
Micron Inc. |
| ELECTRON MICROSCOPY |  
89-Electron Microscopy  
Micron Inc. |
| ENVIRONMENTAL ANALYSIS |  
90-Environmental analysis  
KulTech Incorporated |
| ESCA SERVICES |  
91-ESCA services  
Micron Inc. |
| GENERAL EQUIPMENT |  
97-Blenders, mixers, stirrers  
GEA Process Engineering Co.  
Hielischer USA  
Patterson-Kelley  
98-Burets & accessories  
BrandTech Scientific Inc.  
100-Centrifuges  
Eastern Scientific Co.  
Sorbent Technologies, Inc. |
| 109-Evaporators |  
Eastern Scientific Co.  
GEA Process Engineering Co.  
Milestone, Inc. |
| 110- Filters |  
Clarcor Air Filtration  
GEA Process Engineering Co.  
Newark Wire Cloth Company |
| 112-Freeze dryers |  
Eastern Scientific Co.  
GEA Process Engineering Co. |
| 114-General laboratory equipment |  
Artel, Inc.  
BrandTech Scientific Inc.  
Carbolite Inc.  
Glas-Col  
KNF Neuberger, Inc. |
| 115-Germicidal lamps |  
Bultronics, Inc. |
| 116-Glassware |  
Ace Glass Incorporated  
Chemglass, Inc.  
Kimble Chase |
| 118-Homogenizers |  
Cooke Companies  
International  
GEA Process Engineering Co.  
Hielischer USA  
Sorbent Technologies, Inc. |
| 119A-Labware |  
BrandTech Scientific Inc.  
Cargille Laboratories  
Milestone, Inc. |
| 120A-Light sources |  
Bultronics, Inc. |
| 120B-Microwaves |  
CEM Corporation |
| 122-PID lamps |  
Bultronics, Inc. |
| 124-Power supplies |  
Bultronics, Inc. |
| 127-Pressure vessels |  
Supercritical Fluid Tech. Inc. |
| 128-Process controls |  
Real-Time Analyzers, Inc. |
| 129-Pumps |  
BrandTech Scientific Inc.  
Eastern Scientific Co.  
KNF Neuberger, Inc.  
VACUUBRAND, Inc. |
| 132-Solvent purification systems |  
GEA Process Engineering Co.  
BrandTech Scientific Inc.  
Bultronics, Inc. |
| 135A-UV-visible lamps |  
Bultronics, Inc. |
| 137-Vacuum equipment |  
BrandTech Scientific Inc.  
Eastern Scientific Co.  
KNF Neuberger, Inc.  
MASS VAC, Inc.  
VACUUBRAND, Inc. |
| MICROSCOPES & SERVICES |  
144-Microscope accessories  
Cargille Laboratories  
144B-Microscopes  
Libra Technical Center, LLC  
Sorbent Technologies |
| MICROSCOPES-SCANNING PROBE |  
144C-Atomic Force  
Nanoscience Instruments, Inc. |
| ORGANIC MICRO-ANALYSIS |  
145-Organic microanalysis  
Huffman Laboratories, Inc. |
| ORGANIC SYNTHESIS |  
146-Organic synthesis  
Cambrex Bioscience  
Gelest Inc.  
Matrix Scientific  
Milestone, Inc.  
Organix Inc.  
Zinsser North America |
| ORGANOMETALLICS |  
147-Organometallics  
Gelest Inc. |
| POLLUTION CONTROL |  
148-Instruments  
KulTech Incorporated |
| QUALITY CONTROL |  
151-Quality control  
Cargille Laboratories  
KulTech Incorporated  
Real-Time Analyzers, Inc. |
| SPECTROMETERS |  
165A-Circular dichroism spectrometers  
JASCO  
167-Fluorescence  
Lumex Intl.  
171-IR & UV cells  
International Crystal Labs  
Kett US  
172-Mass  
Acquisition Solutions  
JEOL USA, Inc.  
U.S. Services, Inc. |
## Buyer's Guide - Products & Services

<table>
<thead>
<tr>
<th>Company</th>
<th>Address/Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abacalab</td>
<td>Christopher Phelan, President 811 N. Franklin St., Wilmington, DE 19806</td>
</tr>
<tr>
<td></td>
<td>(302) 494-6507, (302) 213-9179, <a href="mailto:phelan@abacalab.com">phelan@abacalab.com</a>, 56</td>
</tr>
<tr>
<td>Ace Glass Incorporated</td>
<td>Joe Kumpel, General Sales Manager, Box 688, 1430 NW Blvd., Vineland, NJ 08360</td>
</tr>
<tr>
<td></td>
<td>(609) 692-3333, (800) 543-6752, <a href="mailto:j_kumpel@aceglass.com">j_kumpel@aceglass.com</a>, 116</td>
</tr>
<tr>
<td>Acquisition Solutions</td>
<td>C. Fiot, Director of Marketing, 7610 Edgeway Drive, Houston, TX 77055</td>
</tr>
<tr>
<td></td>
<td>(713) 957-2644, (713) 957-2644, <a href="http://www.flash.net/~acqsol/">www.flash.net/~acqsol/</a>    <a href="mailto:acqsol@flash.net">acqsol@flash.net</a>, 172</td>
</tr>
<tr>
<td>Airborne Labs Intl. Inc.</td>
<td>Don Pachuta, President, 22C World's Fair Drive, Somerset, NJ 08873</td>
</tr>
<tr>
<td></td>
<td>(732) 302-1950, (732) 302-3035, <a href="http://www.airbornelabs.com">www.airbornelabs.com</a>, <a href="mailto:airbornelabs@aol.com">airbornelabs@aol.com</a>, 65A</td>
</tr>
<tr>
<td>Alliance Technologies, LLC</td>
<td>Jonathan Chun PhD, Director of Technology, 1 Deer Park Drive, Suite D, 23</td>
</tr>
<tr>
<td>Alpha M.O.S. America</td>
<td>Meakee Kollet, V.P. Sales, 7502 Connelley Drive, Ste#110, Hanover, MD 21076</td>
</tr>
<tr>
<td></td>
<td>(410) 553-9736, (410) 553-9871, <a href="mailto:kollet@alpha-mos.com">kollet@alpha-mos.com</a>, 12D</td>
</tr>
<tr>
<td>Alpha Omega Technologies Inc.</td>
<td>Adam Blaisdell, Marketing Director, 1025 Rte 70, Brielle, NJ 08730</td>
</tr>
<tr>
<td></td>
<td>(800) 842-5742, (732) 292-2311, <a href="http://www.aoti.net">www.aoti.net</a>, <a href="mailto:abalaisdell@aoti.net">abalaisdell@aoti.net</a>, 43</td>
</tr>
<tr>
<td>Artel, Inc.</td>
<td>Katrine Stevens, Marketing Associate, 25 Bradley Dr, Westbrook, ME 04092-2013</td>
</tr>
<tr>
<td></td>
<td>(888) 406-3463, (207) 854-0867, <a href="mailto:info@artel-usa.com">info@artel-usa.com</a>, 114, 179B</td>
</tr>
<tr>
<td>Ash Ingredients, Inc.</td>
<td>Richard Field, VP, Sales &amp; Marketing, 65 Harristown Road, Glen Rock, NJ 07452</td>
</tr>
<tr>
<td></td>
<td>(201) 689-1322, (201) 689-1344, <a href="http://www.ashingredients.com">www.ashingredients.com</a>, <a href="mailto:rfield@ashingredients.com">rfield@ashingredients.com</a>, 35A</td>
</tr>
<tr>
<td>Ast Scientific, LLC</td>
<td>Dina Teichman, President, 952 East 26TH Street, Brooklyn, NY 11210</td>
</tr>
<tr>
<td></td>
<td>(718) 692-3945, (718) 228-2869, <a href="http://www.astscientific.com">www.astscientific.com</a>, <a href="mailto:dina@astscientific.com">dina@astscientific.com</a>, 12C, 12H</td>
</tr>
<tr>
<td>ATS RheoSystems</td>
<td>Steven Colo, President, 231 Crosswicks Road, Bordentown, NJ 08505</td>
</tr>
<tr>
<td></td>
<td>(609) 298-2522, (609) 298-2795, <a href="http://www.atsrheosystems.com">www.atsrheosystems.com</a>, <a href="mailto:info@atsrheosystems.com">info@atsrheosystems.com</a>, 12, 25, 65A</td>
</tr>
<tr>
<td>Atlantic Analytical Laboratory</td>
<td>Ralph Ciotti, Laboratory Manager, PO Box 220, Salem Ind Pk Blg #4, Whitehouse, NJ 08888</td>
</tr>
<tr>
<td>Bedoukian Research</td>
<td>Izzy Heller, Sales Manager, 21 Finance Dr., Danbury, CT 06810</td>
</tr>
<tr>
<td></td>
<td>(203) 830-4000, (203) 830-4010, <a href="http://www.bedoukian.com">www.bedoukian.com</a>, <a href="mailto:izzy@bedoukian.com">izzy@bedoukian.com</a>, 28</td>
</tr>
</tbody>
</table>

## Buyer's Guide - Company Directory
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Contact Person</th>
<th>Title</th>
<th>Address</th>
<th>Phone Number</th>
<th>Fax Number</th>
<th>Email Address</th>
<th>Website Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bel-Art Products</td>
<td>Lauren Proctor</td>
<td>Admin Asst. Sales &amp; Marketing</td>
<td>6 Industrial Road Pequannock, NJ 07440 (973)694-0500 x4286 (973)694-7199 <a href="http://www.belart.com">www.belart.com</a> <a href="mailto:SalesDept@belart.com">SalesDept@belart.com</a></td>
<td>(973)694-0500</td>
<td>(973)694-7199</td>
<td>belart.com</td>
<td></td>
</tr>
<tr>
<td>BioPro International Inc.</td>
<td>Rene Lohser</td>
<td>President</td>
<td>P.O. Box 156 /265 Conklin St. Farmingdale, NY 11735 (516)249-0099 (516)249-0494 <a href="http://www.biopro.com">www.biopro.com</a> <a href="mailto:bioprointl@aol.com">bioprointl@aol.com</a></td>
<td>(516)249-0099</td>
<td>(516)249-0494</td>
<td><a href="mailto:bioprointl@aol.com">bioprointl@aol.com</a></td>
<td></td>
</tr>
<tr>
<td>Bioremediation Consulting Inc.</td>
<td>Sam Fogel</td>
<td>Vice President</td>
<td>39 Clarendon St. Watertown, MA 02472 (617)923-0976 (617)923-0959 <a href="http://www.bioremediation@bclabs.com">www.bioremediation@bclabs.com</a></td>
<td>(617)923-0976</td>
<td>(617)923-0959</td>
<td><a href="mailto:bioremediation@bclabs.com">bioremediation@bclabs.com</a></td>
<td></td>
</tr>
<tr>
<td>Brookfield Engineering Lab Inc.</td>
<td>Kathy Durant</td>
<td>Marketing Media Asst.</td>
<td>11 Commerce Blvd. Middleboro, NJ 02346-1031 (508)946-6200 (508)946-6262 <a href="http://www.brookfieldengineering.com">www.brookfieldengineering.com</a> <a href="mailto:k_durant@brookfieldengineering.com">k_durant@brookfieldengineering.com</a></td>
<td>(508)946-6200</td>
<td>(508)946-6262</td>
<td><a href="mailto:k_durant@brookfieldengineering.com">k_durant@brookfieldengineering.com</a></td>
<td></td>
</tr>
<tr>
<td>Brookhaven Instruments Corp.</td>
<td>Sales</td>
<td></td>
<td>750 Blue Point Road Holtsville, NY 11742 (631)758-3200 (631)758-3255 <a href="http://www.bic.bom">www.bic.bom</a> <a href="mailto:info@bic.com">info@bic.com</a> 4, 6A, 12BA</td>
<td>(631)758-3200</td>
<td>(631)758-3255</td>
<td>bic.bom</td>
<td></td>
</tr>
<tr>
<td>Bulbtronics, Inc.</td>
<td>Kevin R. Van Allen</td>
<td>Marketing Manager</td>
<td>50 E. Wesley St. S. Hackensack, NJ 07606 (201)343-8425 (201)343-0608 <a href="http://www.cwbrabender.com">www.cwbrabender.com</a> <a href="mailto:cwbi@cwbrabender.com">cwbi@cwbrabender.com</a></td>
<td>(201)343-8425</td>
<td>(201)343-0608</td>
<td>cwbrabender.com</td>
<td></td>
</tr>
<tr>
<td>CEM Corporation</td>
<td>Michelle Horn</td>
<td>Marketing Manager</td>
<td>PO Box 200 Matthews, NC 28106 (704)821-7015 (704)821-8710 <a href="http://www.cem.com">www.cem.com</a> <a href="mailto:michelle.horn@cem.com">michelle.horn@cem.com</a></td>
<td>(704)821-7015</td>
<td>(704)821-8710</td>
<td>cem.com</td>
<td></td>
</tr>
<tr>
<td>ChemBridge Corp.</td>
<td>Sales</td>
<td></td>
<td>16981 Via Tazon Ste. G San Diego, CA 92127 (858)451-7400 (858)451-7401 <a href="http://www.chembridge.com">www.chembridge.com</a> <a href="mailto:sales@chembridge.com">sales@chembridge.com</a></td>
<td>(858)451-7400</td>
<td>(858)451-7401</td>
<td>chembridge.com</td>
<td></td>
</tr>
<tr>
<td>Chemglass, Inc.</td>
<td>Howard Hayman</td>
<td>Director of Product Devt.</td>
<td>3861 N. Mill Road Vineland, NJ 08360 (800)843-1794 (800)922-4361 <a href="http://www.chemglass.com">www.chemglass.com</a> <a href="mailto:howard@cglifesciences.com">howard@cglifesciences.com</a></td>
<td>(800)843-1794</td>
<td>(800)922-4361</td>
<td>chemglass.com</td>
<td></td>
</tr>
<tr>
<td>Chemical Heritage Foundation</td>
<td>Gigi Naglak</td>
<td>Outreach Coordinator</td>
<td>315 Chestnut Street Philadelphia, PA 19106 (215)873-8258 (215)629-5258 <a href="mailto:gntaglak@chemheritage.org">gntaglak@chemheritage.org</a></td>
<td>(215)873-8258</td>
<td>(215)629-5258</td>
<td>chemheritage.org</td>
<td></td>
</tr>
<tr>
<td>Chemtest Laboratories</td>
<td>Dr. Zvi Blank</td>
<td>Director</td>
<td>1259 USA Highway 46 Parsippany, NJ 07054 (973)335-2254 (973)335-0556 callibs.com <a href="mailto:callibs@earthlink.net">callibs@earthlink.net</a></td>
<td>(973)335-2254</td>
<td>(973)335-0556</td>
<td>callibs.com</td>
<td></td>
</tr>
<tr>
<td>Chiralizer Services, LLC</td>
<td>Steven Parker</td>
<td>Sales Manager</td>
<td>12 Penns Trail, Suite 140 Newtown, PA 18950 (215)497-9493 (215)497-9466 <a href="http://www.hplctools.com">www.hplctools.com</a> <a href="mailto:steven@hplctools.com">steven@hplctools.com</a></td>
<td>(215)497-9493</td>
<td>(215)497-9466</td>
<td>hplctools.com</td>
<td></td>
</tr>
</tbody>
</table>

**BUYER’S GUIDE - Company Directory**

The list contains contact information for various companies, including their addresses, phone numbers, fax numbers, and email addresses.
BUYER'S GUIDE - Company Directory

Clarcor Air Filtration
Julie Payne
Marketing Brand Manager
P.O. Box 32578
Louisville, KY 40232
(502)969-2304 x1
(866)247-4827
www.clcair.com
jpayne@clcair.com

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

Contract Market Research
Sharon Derbyshire
Market Research Consultant
303 Joliesse Lane
Cary, NC 27519
(919)931-1358
(919)469-6006
sharon@contractmktres.com
58

Cooke Companies International
Marcus Cooke
Marketing Manager
P.O. Box 810
Chapel Hill, NC 27514-0810
(919)968-0848
(919)968-0848
wmcooke1@aol.com
118

Cosa Instrument Corporation
Bernard Bohnhorst
Marketing Manager
55 Oak St
Norwood, NJ 07648
(201)767-6600
(201)767-9468
jbrooks@cosaican.com
5

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

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

Dendritic Nanotechnologies, Inc.
Ryan Hayes, Ph.D.
Director Business Development
2625 Denison Drive
Mount Pleasant, MI 48858
(989)774-1799
hayes@dnanotech.com
38

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

EMD Chemicals Inc.
Michael Stern
Product Manager
480 South Democrat Road
Gibbstown, NJ 08027
(800)222-0342
(856)423-6313
www.emdchemicals.com
emdinfo@emdchemicals.com
37

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

ESA Biosciences, Inc.
John Waraska
Marketing Manager
22 Alpha Road
Chelmsford, MA 01824
(978)250-7083
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<tr>
<th>Company Name</th>
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<th>Title</th>
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<th>Phone 1</th>
<th>Phone 2</th>
<th>Email</th>
<th>Website</th>
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**Ad Index**

**ANALYTICAL**
- Columbia Analytical Services .......... 12
- EMD Chemicals Inc. ..................... 16
- Huffman Laboratories, Inc. .......... 27
- Micron Inc. .............................. 14
- Nacalai USA Inc. ......................... 8
- New Jersey Institute of Technology .... 28
- New Jersey Meadowlands Comm. ...... 15
- NuMega Resonance Labs. ............... 28
- Primera Analytical Solutions Corp. .. 27
- Robertson Microlit Labs .............. 2
- Vacuubrand, Inc. ......................... 17

**EDUCATION**
- City University of New York ........... 4

**EQUIPMENT**
- Eastern Scientific Co. .................. 28
- Mass Vac, Inc. ........................... 2

**GENERAL**
- ACS-NY/NoJ Sections .................... 16
- ACS-NY/NoJ Sections .................... 28
- ACS-NY/NoJ Sections .................... 28

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