

THE **Indicator**

MARCH 2004

Vol. 85 • No. 3

ISSN0019-6924

VISIT OUR WEB PAGES

AT

<http://www.njacs.org>

or

<http://www.newyorkacs.org>

RECYCLE THIS PAPER

PERIODICALS POSTAGE

Call for Papers

2004 EASTERN ANALYTICAL SYMPOSIUM

❖ **Deadline – April 15, 2004** ❖

November 15-18, 2004 • Garden State
Exhibit Center • Somerset, NJ

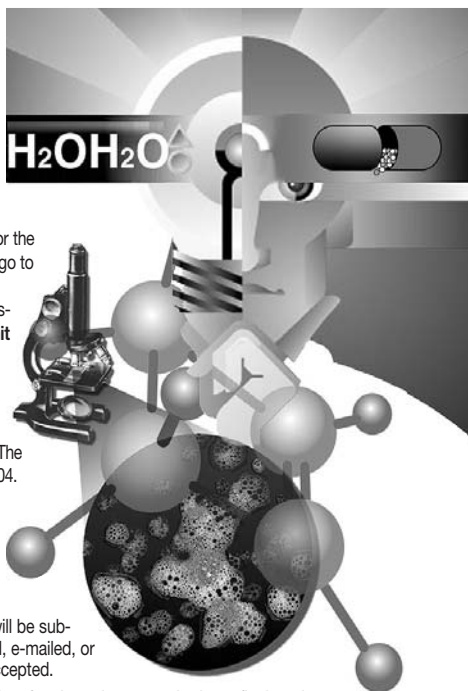


The Eastern Analytical Symposium is the second largest meeting in the United States dedicated to the needs of analytical chemists and those in the allied sciences. Please help us to make the 2004 EAS the best ever—be a part of the program by contributing your own papers for inclusion in the oral or poster sessions.

To submit a **contributed** presentation for the 2004 EAS Technical Program, you should go to our web site, www.eas.org, and follow the instructions for preliminary abstract submission. **Invited speakers should not submit preliminary abstracts to EAS, although your session organizer may request one for his/her use.** All preliminary abstracts must be submitted electronically via the EAS web site at www.eas.org. The abstract submission deadline is April 15, 2004. No faxed, e-mailed, or mailed preliminary abstracts will be accepted.

Please carefully review the following information, since our submission procedures have changed:

1. All preliminary contributed abstracts will be submitted electronically in 2004. No faxed, e-mailed, or mailed preliminary abstracts will be accepted.
2. The title of the presentation and the list of authors that you submit are final, and may not be changed.
3. The preliminary abstract that you submit will be considered to be your final abstract for use in the abstract book for the 2004 Eastern Analytical Symposium.
4. All preliminary abstracts will be acknowledged via e-mail.
5. Presenting authors of contributed submissions will be notified in June 2004 of the status of their abstract and its session assignment.



Eastern Analytical Symposium

P.O. Box 633

Montchanin, DE 19710-0633 USA

www.eas.org

email: easinfo@aol.com

EAS Hotline: 1-610-485-4633

EAS Faxline: 1-610-485-9467

THE INDICATOR

Manager / Editor

MALCOLM STURCHIO

1 Cable Court, Montville, NJ 07045

973-331-5142; Fax 973-331-5143

e-mail: sturchio@optonline.net

Advertising Manager

VINCENT GALE

MBO Services Inc

PO Box 1150, Marshfield, MA 02050-1150

781-837-0424; Fax 781-837-8792

e-mail: vincegale@adelphia.net

INDICATOR COMMITTEE

New York Section Rep.

EVELYN SARNOFF

97-37 63rd Road, Rego Park NY 11374-1624

718-459-3097

North Jersey Section Rep.

DOROTHY S. LEHMKUHL

56 Normal Avenue East

Upper Montclair, NJ 07043-2115

973-744-7095; e-mail: dslehms@aol.com

Web Master

ED HARRIS — e-mail: harris7@optonline.net

NEW YORK SECTION

<http://newyorkacs.org>

Chair

VIJAYA L. KORLIPARA

College of Pharmacy, St. John's University,

8000 Utopia Parkway, Jamaica, NY 11439

718-990-5369; Fax 718-990-1877

e-mail: korlipav@stjohns.edu

Chair-Elect

JAMES W. CANARY

Department of Chemistry, New York University

New York NY 10003

212-998-8422

e-mail: jamescanary@nyu.edu

Secretary

PAMELA K. KERRIGAN

Manhattan College, 4513 Manhattan College

Parkway, Riverdale, NY 10471-4098

718-862-7211; Fax 718-862-7814

e-mail: pam.kerrigan@manhattan.edu

Section Office

St. John's University, Chemistry Dept.

8000 Utopia Parkway, Jamaica, NY 11439

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

e-mail: njesper1@optonline.net

NORTH JERSEY SECTION

<http://www.njacs.org>

Chair

ANNE KELLY

Bristol Myers Squibb, P.O. Box 191,

New Brunswick NJ 08903

732-227-7410

e-mail: Anne.Kelly@bms.com

Chair-Elect

JACQUELINE ERICKSON

GSK, 1500 Littleton Road, Parsippany, NJ 07054

973889.2368

e-mail: jacqueline.a.erickson@gsk.com

Secretary

BETTYANN HOWSON

49 Hillside Avenue, Madison, NJ 07940-2612

973-822-2575

e-mail: chemphun@optonline.net

Section Office

34 Maple Street, Summit, NJ 07901

908-522-1122

THE Indicator

CIRCULATION: 12,000

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

CONTENTS

Advertisers Index	23
Call for Nominations	16
Career Opportunities	23
Education	24
New York Meetings	5-9
Nichols Symposium	8
North Jersey Meetings	11-15
Others	18-19
Professional/Product Directory	20-22
Project SEED Scholarships	10
Puzzle	17
Puzzle Solution	19

EDITORIAL DEADLINES

May	March 15
June	April 15
September	July 15
October	August 15
November	September 15
December	October 15
January 2005	November 14
February	December 13
March	January 14, 2005
April	February 13



MEETING ANNOUNCEMENTS

If your meeting is held before the 10th of the month, your announcement should appear in the previous month's issue of THE INDICATOR. See the deadlines above.

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. Periodicals postage paid at Montville, NJ and additional mailing offices.

Published monthly except July and August. 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. **Subscription price to non-members of either Section \$20.00 per year. To subscribe, make checks payable to The Indicator and mail to the Manager/Editor (see top of left column on this page).**

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

March Calendar

NEW YORK SECTION

Thursday, March 11, 2004

Chemical Marketing & Economics Group
See page 5.

Thursday, March 11, 2004

Long Island Subsection
See page 9.

Friday, March 12, 2004

High School Teachers Topical Group
See page 5.

Friday, March 19, 2004

Hudson-Bergen Chemical Society
See page 6.

Tuesday, March 30, 2004

Biochemical Topical Group
See page 7.

**William H. Nichols
2004 Distinguished
Symposium & Medal Award
Banquet, April 16 2004**

**Deadline for items to be
included in the May 2004
issue of *The Indicator* is
March 15, 2004**

NORTH JERSEY SECTION

Thursday, March 4 2004

Careers in Transition
See page 12.

Monday, March 8, 2004

No. Jersey Teacher Affiliates
See page 12.

Tuesday, March 16, 2004

No. Jersey Executive Committee
See page 12.

Tuesday, March 16, 2004

Younger Chemists Committee
See page 13.

Tuesday, March 16, 2004

ChemTAG
See page 14.

Thursday, March 18, 2004

NJ Group of Small Chemical Businesses
See page 14.

Thursday, March 18, 2004

Chem Central
See page 14.

Friday, March 19, 2004

Chemistry As a Life Science
See page 14.



CONTACT
John Arnett PhD, Dir. of Operations
732-721-4700

- **Custom Synthesis**
- **Combinatorial Building Blocks**
- **cGMP Synthesis**
- **Small Lots Manufacturing**



Chemo Dynamics, LP
3 Crossman Road South, Sayreville, NJ 08872
732-721-4700 (Fax) 732-721-6835
www.chemodynamics.com

New York Meetings

www.newyorkacs.org



CHEMICAL MARKETING & ECONOMICS GROUP

Chemical Industry Restructuring - Past, Present & Future

Speaker: Peter H. Spitz, Partner
Chemical Advisory Partners
Scarsdale, NY

Date: Thursday, March 11, 2004

Times: Cocktails 11:30 AM
Luncheon 12 noon
Presentation 1 PM

Place: The Chemists' Club
40 West 45th Street
New York City

Fees: \$35 discount price for Members
who reserve by **Tuesday,
March 9th** (12 noon);
\$50 for Guests and Members

(at door without reservations)

Reserve: Please reserve early to be eligible for discount price. Call Probe Economics at (914) 923-4505, or via E-mail to: cmegroup@yahoo.com



HIGH SCHOOL TEACHERS TOPICAL GROUP

Paper or Plastic?

Speaker: David M. Teegarden
Eastman Kodak Company

Why don't we recycle more polymers anyway? Recycling plastics requires breaking them down so that their constituent atoms or groups of atoms can be reused. Dr. Teegarden will review the possibilities and which have been most successfully used.

Date: Friday, March 12, 2004

Times: Social and Dinner 5:45 PM

Place: Caffe Pane e Cioccolato
10 Waverly Place at Mercer Street
(southwest corner)
New York NY

(continued on page 6)

Where speed and accuracy are elemental



Robertson Microлит Laboratories

- Elemental CHN Analysis
- Atomic Emission Spectroscopy
- Atomic Absorption Spectroscopy
- FTIR Spectroscopy
- UV/ VIS Spectrophotometry
- Mass Spectrometry
- Chromatography
- Bioavailability
- Polarimetry
- Calorimetry
- Titrimetry
- Wet Chemistry
- KF Aquametry

P. O. Box 927 • 29 Samson Avenue • Madison, NJ 07940

Tel: (973)966-6668 Fax: (973)966-0136

www.robertson-microlit.com

email: results@robertson-microlit.com

HIGH SCHOOL TEACHERS TOPICAL GROUP

(continued from page 5)

Cost: You eat, you pay — cash only, no credit cards

Times: Meeting 7:15 PM

Place: New York University
Main Building Room 207
32 Waverly Place (southeast
corner Washington Square East)
New York NY

Security at NYU may require that you show a picture ID to enter the building.

In case of unexpected severe weather, call John Roeder (212) 497-6500, between 9 AM and 2 PM to verify that meeting is still on. For other info: (914) 961-8882.

Note: For those who prefer indoor attended parking, it is available at the Melro/Romar Garages. The entrance is on the west side of Broadway just south of 8th Street, directly across from Astor Place. It is a short, easy walk from the garage to the restaurant or meeting room.

HUDSON-BERGEN CHEMICAL SOCIETY

The History and Science of Money: Real and Counterfeit

Speaker: Dr. Ariel Fenster
McGill University

A most fascinating topic which covers the history of money from the early coins introduced by Croesus nearly 3000 years ago to the new bills supposedly counterfeit-proof being developed around the world. This is the story of the never ending battle between the central banks which must protect the integrity of their national currency, and the ever more sophisticated forgers who have at their disposal the latest advances in printing technology. The lecture concludes with the presentation of an intriguing concept in educational technology.

Ariel Fenster teaches at McGill University, where he is a founding member of the Office for Science and Society, an organism dedicated to disseminating up-to-date information in the areas of food, food issues, med-



micron inc.

ANALYTICAL SERVICES

MATERIALS CHARACTERIZATION

MORPHOLOGY CHEMISTRY STRUCTURE

**SEM/EDXA, TEM/SAED, EPA/WDXA
XRD, XRF, ESCA, AUGER, FTIR
DSC/TGA**

3815 LANCASTER PIKE WILMINGTON DE. 19805

Voice 302-998-1184, Fax 302-998-1836

E-Mail micronanalytical@compuserve.com

WEB PAGE : www.micronanalytical.com

ications and the environment and health topics in general. Dr. Fenster is well known as an outstanding communicator and an exceptional promoter of science with an extensive program, developed over nearly three decades. He appears regularly on TV and radio to discuss health, environmental and technology issues and has presented numerous science segments for children's television. In addition he has been a major contributor to the development of the award-winning "Chemistry for the Public" lectures series at McGill University and also the "Magic of Chemistry" stage show that has delighted audiences all across North America.

Date: Friday, March 19, 2004

Times: Social 6:00 PM

Dinner: 6:30 PM

Lecture: 7:30 PM

Place: Alumni Lounge (SC137)

Robert Scott Student Center

Ramapo College of New Jersey

Mahwah, NJ

Cost: Dinner \$20.00

(\$10.00 for students)

The lecture is free and open to all.

Reservations required for dinner **by March 16**. To reserve a seat, please contact Ms Sherrill Cox at 201-684-7748 or by email at scox@ramapo.edu. Dinner is \$20 (\$10 for students).



NY-ACS BIOCHEMICAL TOPICAL GROUP – JOINT MEETING WITH THE NYAS BIOCHEMICAL PHARMACOLOGY DISCUSSION GROUP

A Minisymposium on Intestinal Cholesterol, Sterol and Lipid Absorption

Organizers: Margaret van Heek and Harry "Chip" Davis
Schering-Plough Research Institute, Kenilworth, NJ

The Small Intestine as a Target Organ for Regulating the Plasma LDL-Cholesterol Concentration: Studies with Ezetimibe in the Mouse and Hamster

Stephen Turley

University of Texas Southwestern Medical Center, Dallas

Role of Pancreatic Lipolytic Enzymes in

Lipid Absorption with Implications on Diet-Induced Obesity and Diabetes

David Y. Hui

University of Cincinnati College of Medicine

Sitosterolemia: Genetics, Physiology and Pathophysiology

Shailesh Patel

Medical University of South Carolina, Charleston

The Discovery and Pharmacology of ZETIATM, the First Cholesterol Absorption Inhibitor

Harry "Chip" Davis

Organizer

Date: Tuesday, March 30, 2004

Time: 1:00 – 5:00 P.M.

Place: New York Academy of Sciences

Main Hall


2 East 63rd Street (between Fifth

and Madison Avenues)

New York, New York

Phone: 212.838.0230 x 327

Reservations required. Reserve on-line at www.nyas.org/calendar



DESERT ANALYTICS

LABORATORY


- CHNOSP Halogens
- Metals by AA / ICP
- Ion Chromatography
- Trace Analysis
- Coal/Petroleum

≡ Fast, Reliable Service ≡

No Charge for Phone/Fax Results

P.O. Box 41838 245 S. Plumer, #24
Tucson, AZ 85717 Tucson, AZ 85719
Fax 520-623-9218 Phone 520-623-3381

Web: desertanalytics.com
E-mail: thelab@desertanalytics.com

We Accept:   

ANALYSIS FOR THE CHEMICAL ELEMENTS



WILLIAM H. NICHOLS 2003 DISTINGUISHED SYMPOSIUM & MEDAL AWARD BANQUET



Symposium: So What's New in Electrochemistry (and Why Should We Care)?

Award Recipient: Professor Allen J. Bard
 Hackerman-Welch Regents Chair in Chemistry
 University of Texas Austin, Texas

Date: Friday, April 16 2004
Times: Registration 1:00 PM
 Symposium 1:30 PM – 5:30 PM
Place: Crowne Plaza Hotel
 White Plains NY

PROGRAM

1:30 PM	Welcome	Professor Vijaya L. Korlipara 2004 Chair, ACS, New York Section St. John's University
135 PM	Opening of the Distinguished Symposium	Professor James W. Canary 2004 Chair-elect, ACS, New York Section New York University
1:45 PM	Fuel Cells: Why, When, and Where	Professor Paul A. Kohl Georgia Institute of Technology
2:30 PM	Electrochemical Detection and Photonic Reporting in Microfluidic Systems	Professor Richard M. Crooks Texas A&M University
3:15 PM	Coffee Break	
3:45 PM	Electrochemistry in Tight Spaces	Professor Henry S. White University of Utah
4:30 PM	High Resolution Electrochemistry with the Scanning Electrochemical Microscope	Professor Allen J. Bard NICHOLS MEDALIST University of Texas Austin
6:00 PM	Social Hour	
7:00 PM	William H. Nichols Medal Award Banquet	

Tickets may be reserved using the following form:

RESERVATION FORM

2004 WILLIAM H. NICHOLS DISTINGUISHED SYMPOSIUM & MEDAL AWARD BANQUET in honor of Professor Allen J. Bard, University of Texas, Austin

Return to: ACS, New York Section, c/o Dr. Neil D. Jespersen, Department of Chemistry,
 St. John's University, 8000 Utopia Parkway, Jamaica, NY 11439 • (516) 883-7510

Please reserve _____ places for symposium & banquet at \$85/person ACS member
 _____ places for symposium & banquet at \$95/person Non-member
 _____ places for banquet at \$75/person
 _____ places for symposium at \$30/person, ACS member; \$40 non-member
 (Student or unemployed at \$10/person)

(For table reservations of 8 or more, use the ACS member \$85/person rate for combination tickets)

Reserve a table in the name of _____

Names of guests are:

Indicate number in your group who choose:

Chicken _____
 Prime Rib _____
 Salmon _____

Mail Tickets to:

Name: _____

Address: _____

RESERVATION DEADLINE — April 1, 2004

Please make checks payable to: **ACS, NEW YORK SECTION** Check for \$ _____ enclosed.

LONG ISLAND SUBSECTION

Seminars and Activities — Spring 2004

Speakers and Subjects: TBA

Organic/Pharmaceutical Chemistry

Date: Thursday, March 11, 2004

Times: Coffee 5:30 PM
Seminar 6:00 PM
Dinner 7:00 PM

All invited to join the speaker

Place: Hofstra University
Chemistry Building
Lister Lecture Hall
Hempstead, NY

Cost: Dinner \$15.00 (\$20.00 with wine)

For information, contact Luis Vargas (718) 631-6593 or lvargas@qcc.cuny.edu.



EIGHTH ANNUAL FRANCES S. STERRETT ENVIRONMENTAL CHEMISTRY SYMPOSIUM

Alternative Energies — The Answer to Long Island's Insatiable Demand?

The annual Frances S. Sterrett Symposium is dedicated to presenting the public with up-to-date, factual scientific information on environmental topics. Plan now to attend and watch for further information.

Date: Thursday, May 20, 2004

Place: Hofstra University
Hempstead, NY

For further questions contact Dr. Barbara Hillery at hilleryb@oldwestbury.edu or (516) 876-2738.

NEW YORK CHEMISTRY STUDENTS' ASSOCIATION

52nd Annual Undergraduate Research Symposium

Keynote Speaker: Dr. John B. Fenn
Nobel Laureate and
Professor of Chemistry
Virginia Commonwealth
University

The New York Chemistry Students' Association of the ACS, NY-Section will hold its 52nd Annual Undergraduate Research Symposium at Queensborough Community College, Bayside, NY, on Saturday May 1, 2004. Information regarding the symposium including electronic submission will be available on the following website: http://www.newyorkacs.org/grp_students.html.

The deadline for submission is April 1, 2004 The highlight of this year's symposium is the keynote address to be delivered by Dr. John B. Fenn, Nobel Laureate and Professor of Chemistry at Virginia Commonwealth University. Dr. Fenn developed the electrospray ionization (ESI) method in mass spectrometry (ESMS) which made it possible to ionize large molecules under mild conditions. This soft ionization technique allowed the analysis of complex molecules having biological importance with ease and high precision and revolutionized the field of mass spectrometry.

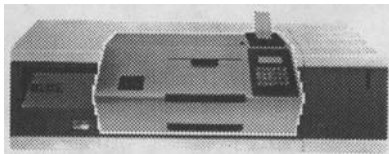
Faculty who are directing the research efforts of undergraduate chemistry students are asked to encourage their students to participate in this worthwhile event. For further information contact: rkabbani@pace.edu or jrehmann@sjcny.edu.

Date: Saturday, May 1, 2004

Place: Queensborough Community
College, Bayside, NY

Rudolph DigiPol-781, the new Automatic Polarimeter

Small in size, Big on performance



Little Giant!

Contact for demo:

Rudolph Instruments, Inc.

Fairfield, NJ 07004-2113

Call TOLL FREE: **1-888-4RUDOLPH**

Tel: 973 227 0139 Fax: 973 227 4576

e-mail: rudinst@aol.com

web: www.rudolphinst.com

PROJECT SEED COLLEGE SCHOLARSHIP RECIPIENTS — 2003 — NEW YORK/NORTH JERSEY SECTIONS

The ACS Committee on Project SEED congratulates the winners of its 2003-2004 College Scholarships and wishes all students continued success in their future studies. The scholarships were made possible through generous donations to the Project SEED Program from the following sponsors: Alfred and Isabel Bader, Bayer Corporation, Burroughs Wellcome Fund, Elizabeth and Stephen Bechtel, Jr. Foundation, and Glenn and Barbara Ulloty.

Jignesh Amleshvar graduated from High Tech High School, Jersey City, NJ. Under the supervision of Dr. Michael Huang and Dr. Baohua Yue, at the New Jersey Institute of Technology, Jignesh's research involved determining the size of Unilamellar Vesicles. Jignesh will attend the New Jersey Institute of Technology, Newark NJ.

Seung Hoon Choi graduated from Bloomfield High School, Bloomfield, NJ. Under the supervision of Dr. Ajay Bose, Stevens Institute of Technology, NJ, he worked on a project entitled, "Nitrations of Aromatic Compounds Using Calcium Nitrate." Seung Hoon will attend Carnegie Mellon University, Pittsburgh, PA.

Daniel Diaz graduated from Emerson High School, Union City, NJ. Under the supervision of Dr. Chen Wei-Chen, Rutgers University, NJ, his research was entitled, "Synthesis and Dispersion Properties of Hydroxyapatite with Mechanochemical-Hydrothermal Processing." Daniel will attend Rutgers University, New Brunswick NJ.

Jannatual Ferdous graduated from Frederick Douglass Academy, New York NY. Under the supervision of Dr. Steven

Greenbaum, Hunter College of CUNY, she worked on a project entitled, "Focus: Spin-Lattice Relaxation Times of Phosphoric Acid (aq) Concentrations." Jannatual will attend Mount Holyoke College, South Hadley, MA.

Furiha Khawaja, who went to McNair Academic High School, Jersey City, NJ, worked under the direction of Dr. Amjad Khan, Jersey City Medical Center, NJ. Furiha's research project was entitled, "The Study of Pap Smear Findings as a Predictor of Acute Chorioamnionitis." She will attend Rutgers University, Newark NJ.

Christopher Leonor worked under the direction of Dr. Washington Braidia and R. Nikolay Strigul, Stevens Institute of Technology, NJ, while a student at High Tech High School, North Bergen, NJ. Christopher's research involved the environmental impact of Tungsten in soil environments. He will attend Stevens Institute of Technology, Hoboken, NJ.

Omar Miqbel is a graduate of Union Hill High School, Union City, NJ. Under the supervision of Dr. Bishambar Dayal, VA Medical Center, NJ, Omar's research involved Cardia Molecular Markers: Detection and Identification of Interleukin-6 Protein Patients with Diabetes and Cardiovascular Disease by SELFI Protein Chip System. Omar will attend Rutgers University, New Brunswick NJ.

David Puente is also a graduate of Emerson High School, Union City, NJ. He worked under the supervision of Dr. Van Thompson, New York University College of Dentistry, NY. David's research was entitled, "Effect of Strain Rate on Bond Strength of Dental Adhesive to the Dentin of Teeth." David will attend Saint Peter's College, Jersey City, NJ.

Sony Rodriguez worked under the direction of Mr. Jeremy Stanton at Drew University,



DuPont Analytical Solutions

From rapid, routine testing to complex problem-solving. One of the world's largest, and most diverse analytical laboratories, with the experience to solve your analytical challenges in :

**Electronic Materials • Personal Care • Catalysis • Coatings, Pigments, and Adhesives
Specialty Chemicals • Films and Packaging • Pharmaceuticals • Plastics • Fibers • Textiles**

**DuPont Analytical Solutions
P.O. Box 80302
Wilmington, DE 19880-0302
Phone: (302) 695-1018**

**e-mail: DASolutions@usa.dupont.com
web: <http://analyticalsolutions.dupont.com>
FAX: (302) 695-1717**

Contact us for all your analytical needs.



NJ, while a student at McNair Academic High School, Jersey City, NJ. Sony's research was entitled, "Cross-linking Today for an Eco-friendly Future." Sony will attend Drew University, Madison, NJ.

Under the direction of Dr. Paula Ruiz, Hackensack University Medical Center, NJ, **Karen Romero**, a graduate of Emerson High School, Union City, NJ, worked on a project entitled, "Chemical US Ozone." Karen will attend Rutgers the State University of New Jersey.

Solomon Sarfo is a graduate of Orange High School, Orange, NJ. Under the supervision of Dr. Robert Augustine, Seton Hall University, NJ, his research project was entitled, "Preparation of Heteropolyacid Modified Alumina: Use of Green Chemistry." Solomon will attend Seton Hall University, South Orange, NJ.

LaTanya Turner worked under the direction of Dr. Jing Wu, New Jersey Institute of Technology, NJ, while a student at Orange High School, Orange, NJ. LaTanya's research involved the Purification of Industrial Polystyrene, Measurement on Viscosity of Different Polymer Solutions and Titration of Biomedical Polymer Materials.

LaTanya will attend Rutgers University, Newark NJ.

Donna Velazquez is a graduate of Union Hill High School, Union City, NJ. She worked under the supervision of Dr. Edward Konsevick, New Jersey Meadowland Commission, NJ. Donna's research project involved the environmental chemistry in an urban estuary. Donna will attend Rutgers University, Newark NJ.

Jean Wisna is a graduate of Linden High School, Linden, NJ. Under the direction of Dr. Robert Rosen, Rutgers University, NJ, Jean's research involved, The Chemistry of "Mascretti" Oil. Jean will attend Rutgers University, New Brunswick NJ.

Jawaria Zareen graduated from Edward R. Murrow High School, Brooklyn, NY. She worked under the supervision of Dr. Maja Nowakowski, SUNY Downstate Medical Center, NY. Jawaria's research was entitled, "Boswellic Acids: Plant Derived Inhibitors of Leukocyte Inflammatory." Jawaria will attend Polytechnic University, Brooklyn, NY.

Congratulations!

QTI p/u Jan. ad

North Jersey Meetings

<http://www.njacs.org>

EXECUTIVE COMMITTEE AND SECTION MEETING

Invitation to All ACS Members

The North Jersey Section's Executive Committee meets at 4:15 PM. All ACS members are welcome to attend.

The Younger Chemists Committee will meet after the Executive Committee.

Date: Tuesday, March 16 2004

Times: 4:15 PM

Place: Hartman Lounge
Mansion Building
Fairleigh Dickinson University
Madison, NJ

Cost: \$18.00 for Dinner

Reservations: for dinner call (908) 234-9240 and state your wish to make reservations for the ACS dinner before **Friday, March 12, 2004**.

Dinner at the North Jersey Meeting is payable at the door; however, if you are not able to attend and did not cancel your reservation, you are responsible for the price of your dinner.



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 searching.

The next meeting for the Careers In Transition Group will be held **Thursday, March 4 2004**, 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.



TEACHER AFFILIATES

Executive Committee Meeting

Date: Monday, March 8, 2004

Time: 4:30 PM

Place: Chatham High School
255 Lafayette Avenue
Chatham, NJ

Contact Diane Krone at (201) 385-4810 or kroned@optonline.net.

BIOTECHNOLOGY

PULVERIZING & BLENDING

PRESSING & PELLETIZING

FUSION

XRF ACCESSORIES

Make Your Sample Preparation Problems Disappear.

SPEX CertiPrep has provided spectroscopists with durable, reliable and economical sample preparation equipment for 50 years. Products available include: Grinders, Mills, Presses, Dies, XRF Accessories, Fusion/Flux Equipment and Cryogenic Grinders.

1-800-522-7739

203 Norcross Avenue, Metuchen, NJ, USA 08840

Phone 732-549-7144 • Fax 732-603-9647

<http://www.spexcsp.com>

sampleprep@spexcsp.com





YOUNGER CHEMISTS COMMITTEE

Forensic Sciences Panel Discussion

Speakers: Margaret Wallace, Ph.D
Prof of Forensic Sciences
John Jay College of
Criminal Justice

Karen Dooling
Assistant Director
Nassau County Medical
Examiner's Office

Thomas Brettell, Ph.D
Director, Forensic Science
Laboratory Bureau
NJ State Police

Do you enjoy the suspense and intellectual stimulus of such TV hits such as Law & Order and CSI? Are you intrigued by the use of cutting-edge science and analytical techniques in cracking challenging crimes? If so, please join us for our next YCC meeting,

where you will get an insider's perspective on this non-traditional career in chemistry. Put on your detective's hat and learn just how forensic scientists put their strong scientific backgrounds and quick problem-solving skills to use in this exciting, rewarding profession. We will feature speakers with chemistry and biochemistry background who work in forensic sciences

Date: Tuesday, March 16 2004

Times: Registration/Social Mixer: 6:00 PM

Dinner: 6:30 PM

Panel Discussion: 7:00 PM

Cost: Dinner \$18 for professionals
\$6 for students

Place: Lenfell Hall, the Mansion
Fairleigh Dickinson University
Madison, NJ 07940

Please register by **Friday, March 12th, 2004**, either on-line at www.njacs.org/ycc.html or via e-mail to jun_liang@merck.com. Please cancel your reservation if you will not be able to attend. Directions to Lenfell Hall at the Mansion, can be found on-line http://www.fdu.edu/visitorcenter/directions/florham_map.html.

Do Away with Vacuum Pump Oil Mist

with MV Oil Mist Eliminators

- ❑ Removes oil mist from vacuum pump exhaust
- ❑ Coalescing filters drain oil into a reservoir for easy recovery
- ❑ Protects clean rooms from pump vapors
- ❑ Keeps oil residue from sticking to furniture, walls and floors

High-Capacity Oil Mist Eliminator for Vacuum Pumps.



MV VISI-MIST Oil Mist Eliminator for Smaller Pumps

Vacuum pump oil mist contaminates the surrounding air, settles on surfaces and you breathe it. Eliminate this problem by installing MV oil mist eliminators on your vacuum pumps. The coalescing filter elements remove oil mist at 0.1 micron with an efficiency of 99.999%. Contact MV Products for the oil mist eliminators best suited for your requirements.



PRODUCTS

A Division of Mass-Vac, Inc.

247 Rangeway Road • PO Box 359 • North Billerica, MA 01862

978-667-2393 FAX 978-671-0014 E-MAIL sales@massvac.com WEB www.massvac.com

ChemTAG

Date: Tuesday, March 16 2004

Time: 4:00 PM

Place: Montville High School
100 Horseneck Road
Montville, NJ

Contact: Maddie Straus at wmstraus@mwscomp.com or Diane Krone at kroned@optonline.net.



NJ GROUP OF SMALL CHEMICAL BUSINESSES — JOINT MEETING WITH ASSOCIATION OF CONSULTING CHEMISTS & CHEMICAL ENGINEERS

Speaking Differently — The Key To Effective Leadership and Management and the Route to Sustainable High Performance

Speaker: Donald J. Koestler
President
DJ Koestler, LLC.

Today's business environment is more dynamic and complex than ever; new business models are continually demanded to meet the challenges of a rapidly evolving industry. One of the ways to meet these challenges is to shift your thinking a few degrees for better insights into the situation's dynamics. This presentation is designed to sharpen your awareness of a wide range of principles and models that can be used to sustain a high performance level.

The traditional mental models of how the world works can be sharpened and expanded by using the power of systemic thinking. This strategic approach will be demonstrated, and illustrated with a discussion of real-life examples. For example, there will be a review of a model that shows the real cause of ever increasing health care costs and why the current approach will not solve the problem.

Mr. Koestler is currently an Adjunct Professor in Drexel University's Graduate Program in Engineering Management, teaching courses in "Leadership in Engineering Management", "Engineering Management — Paradox and Creativity" and "Systems Thinking."

A graduate of Villanova University, with a degree in chemical engineering, Don held managerial and leadership positions in manufacturing, engineering, and corporate technology at Rohm and Hass Company over a period of 40 years.

His entire career focused on chemical process technology, and Don played a key role in setting up the Process Development Network.

Date: Thursday, March 18, 2004

Times: Networking/Cash Bar 5:30 PM

Dinner 6:30 PM

Presentation 7:15 PM

Q & A - Networking -

Dessert 8:00 PM

Place: Holiday Inn, North
Frontage Road, Newark Airport
For map and directions see

www.NJChemBus.org

Cost: \$45 for members of NJGSCB and ACCCE; \$55 for non-members in advance or at the door. Cancel 48 hours in advance or be invoiced.

All Reservations must be in advance either at Web Site: www.NJChemBus.org or call Rhoda Kriesel at 973-509-3290.

ACCCE can be reached at:

www.chemconsult.org or

acce@chemconsult.org,

Tel: (973) 729-6671 or Fax: (973) 729-7088



CHEM CENTRAL

Date: Thursday, March 18, 2004

Contact Roseann McCarthy for location and details: roseannmcc@comcast.net.



CHEMISTRY AS A LIFE SCIENCE SYMPOSIUM XII

The twelfth in this series of biennial symposia

Invited Speakers:

Andrew G. Myers Harvard University
"Synthetic and Chemical Biological Studies of the Natural Antiproliferative Agent Saframycin A; Identification of a Protein Target"

Robert M. Williams Colorado State University

"Total Synthesis of Natural Products of Biological Intrigue"

Carolyn R. Bertozzi, University of California at Berkeley

"Chemistry in a Cellular Environment"

David W. C. MacMillan, California Institute of Technology

"Design of New Catalysis Concepts of Broad Utility to Chemical Synthesis"

Alois Fürstner, Max-Planck-Institut für Kohlenforschung

"Catalysis Based Total Syntheses of Bioactive Natural Products"

Ronald Breslow, Columbia University
"Bioorganic and Biomimetic Chemistry"

Date: Friday, March 19, 2004

Place: The Paul Robeson Campus Center
Rutgers The State University
Newark New Jersey

The symposium is free and open to the public

Advanced registration is required. All registration must be done electronically by going to the web site at: <http://www.njacs.org/calss2004html>



NMR TOPICAL GROUP

News From the Group:

Dear Colleagues:

So far we had an exciting start for 2004. We had Dr. Moseley (CABM, Rutgers University) in December '03, Dr. Kalodimos (Rutgers University) for January '04, and Dr. Wand (University of Pennsylvania) in February '04. Our March date remains open. Our featured speaker on **May 18th, 2004** will be Dr. Art Palmer of Columbia University. As there are so many events in April, we may not hold an April meeting. Future topics will include NMR in the Specialty Chemical Business and Solid State NMR. Also, we are considering another special event in the fall, similar to the "Structure Elucidation by NMR Workshop" we held in October 2003 on the Busch Campus of Rutgers University. Please check our web page at <http://njacs.org/nmr.html> for our current activities and announcements. In addition we feature job

postings and other valuable information.

If you want to be included in our e-mail list for announcements and notifications please contact Drs Gerald Stockton (gstockton@comcast.net) or Thomas Schuster (tschuste@optonline.net). Also, if you want to be excluded from our list, please contact us

Our monthly meetings will follow the traditional schedule: the place is the Woodbridge Hilton, the meetings commence with a social/networking hour at 6.15 PM, dinner at 7.00 PM, and the seminar at 7.45 PM. The cost for attending the dinner is \$ 30 (\$ 10 for students and post-docs), and attending the seminar is for free

We are delighted to acknowledge generous financial support by the following vendors:

Student Subsidy: Courtesy of Frank Bosco of New Era Enterprises Inc

Dinner Wine: Courtesy of Chuck Kenney of Cambridge Isotopes Inc

Social Hour : Courtesy of Suraj Manrao of Spectra Stable Isotopes

GATEWAY CHEMICAL TECHNOLOGY

chemistry to meet your needs

CUSTOM SYNTHESIS

- ¥ Pharmaceuticals
- ¥ Agrichemicals
- ¥ Combinatorial Platforms
- ¥ Competitor's Products
- ¥ Intermediates
- ¥ Analytical Standards
- ¥ Metabolites

PROCESS DEVELOPMENT

- ¥ Process Evaluation
- ¥ New Route Development

SPECTROSCOPIC SERVICES

- ¥ LCMS (APCI and API-ES)
- ¥ NMR (300 MHz)
- ¥ GCMS (EI)

11810 Borman Dr ¥ Saint Louis, Missouri 63146
314.220.2691 (office) ¥ 314.991.2834 (fax)
www.gatewaychemical.com ¥ rjkaufman@aol.com



Call For Nominations

WESTCHESTER CHEMICAL SOCIETY DISTINGUISHED SCIENTIST AWARD 2004

The Westchester Chemical Society is seeking nominations for its Distinguished Scientist Award 2004. Applicants must live or work in Westchester. Applications are due **by April 1, 2004**. Send application to: Joan Laredo-Liddell, 391 Palmer Road, Yonkers, NY 10701-5239.



THE CARL S. MARVEL CREATIVE POLYMER CHEMISTRY AWARD

Purpose: To recognize and encourage accomplishments and/or innovation of unusual merit in the field of basic or applied polymer science by younger scientists

Nature: The award consists of a plaque and an honorarium of \$2000. The award is usually presented biennially in odd-numbered years at the Spring meeting of the Polymer Chemistry Division. The recipient is expected to present an address at a symposium organized in his/her honor. Reasonable travel expenses to the meeting are paid in addition to the honorarium.

Establishment and Support: The award was established in 1980 and is administered by the Polymer Chemistry Division. The Dow Chemical Company Foundation sponsors the award.

Previous Recipients: Louis J. Fetters, Wayne L. Mattice, Edward L. Thomas, Garth L. Wilkes, Robert S. Langer, David A. Tirrell, Sukant Tripathy, Krzysztof Matyjaszewski, Bruce Novak, Joseph M. DeSimone, Craig J. Hawker, and James L. Hedrick

Rules for Eligibility: A nominee must be a member or affiliate of the ACS Division of Polymer Chemistry at the time of nomination, must have accomplished outstanding work in basic or applied polymer science, and shall not have reached his/her 45th birthday on January 1 of the year of the award. The award shall be granted to an individual without regard to race, color, national origin, sex, religion, disability, or sexual orientation.

Nomination Procedure: Eight (8) collated individual copies of a complete nominating document, including a synopsis of the accomplishments of the nominee, a curriculum vitae, and a maximum of five reprints or other supplementary material for each copy, shall be submitted to the Awards Chairman for distribution to the committee. The document should be letter-size. A maximum of three (3) supporting letters which contain factual information about the candidate not provided in the nominating document may be attached to the nomination. The nomination and its accompanying material for the 2005 award must be postmarked **no later than July 1, 2004**. Address nominating material to: Dr. Thomas J. Pacansky, 19 Oak Place, Bernardsville, NJ 07924.



IMPACT ANALYTICAL:

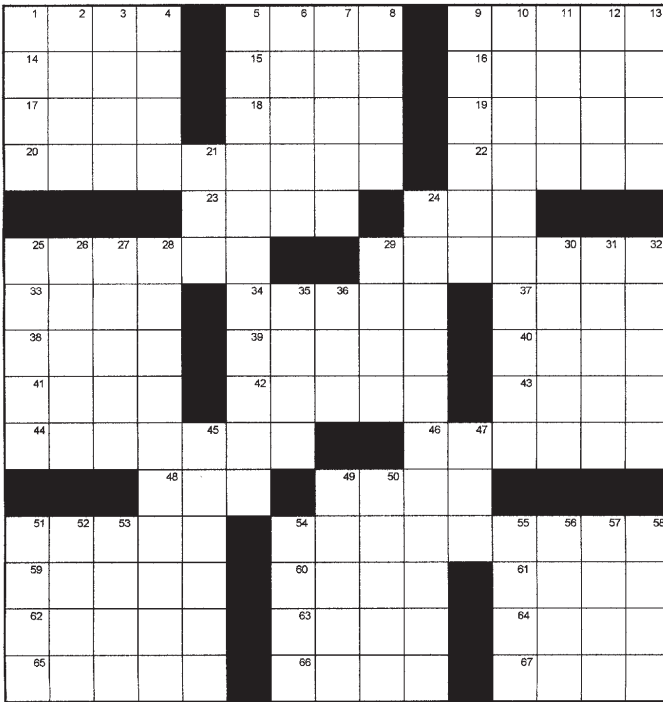
MORE THAN A TESTING LAB - YOUR RESEARCH PARTNER

Our specialty: Using the best instruments and our collective years of staff experience to solve real-life, production-halting, career-threatening, boss-panicking problems. Quickly. Affordably. Authoritatively.

BRING ON THE TOUGH PROBLEMS.

1910 W. St. Andrews Rd., Midland, MI 48640
Phone: 989-832-5555 Fax: 989-832-5560
info@impactanalytical.com www.impactanalytical.com





ACROSS

- 1. Russia's former country
- 5. Clenched hand
- 9. Democratic Republic of Congo, formerly
- 14. Ballerina attire
- 15. Idea: French
- 16. Houston football player
- 17. Jai ____
- 18. Hawaiian necklaces
- 19. Garb
- 20. Lower layer in a settling tank
- 22. ____ shoe fits wear it!
- 23. Proofreaders mark
- 24. ____ Ho: Hun Ho feeder
- 25. Device for creating the proper distance between items
- 29. Device for removing powdered solids from gas or liquids by centrifugal force
- 33. Boat bottom
- 34. Swiss ____ (beet)
- 37. Triplet
- 38. Verdi creation
- 39. One with a skin disease
- 40. The father of Gaal
- 41. Arikaras
- 42. "One lump ____?"
- 43. Something to throw at a wedding
- 44. Mechanical property that is the basis for sedimentation centrifuges

- 46. Eva to ZsaZsa
- 48. Legendary Celt
- 49. Duck: Spanish
- 51. Arrow section
- 54. Apparatuses to draw off liquid without disturbing underlying sediment
- 59. Sound portion
- 60. In ____ (same thing, day after day)
- 61. Ever's partner
- 62. Internet requirement
- 63. South American monkey
- 64. Musical composition with frequent repeats
- 65. Type of drum
- 66. Fish relish
- 67. "Break ____!" (good luck)

DOWN

- 1. Eight days after a church feast
- 2. Star Trek captain
- 3. Use a knife
- 4. Destroy
- 5. Selective barrier for mechanical separations
- 6. Type of gas or solution
- 7. River in France
- 8. Exam
- 9. Astrologer's constellation set
- 10. Devices used to separate solid from gas used in cars

- 11. ____ *My Mind Wander* (Willie Nelson song)
- 12. Hebrew letter
- 13. Gaelic
- 21. Fruit drink
- 24. Separators that depend on differences in phase mass per volume alone
- 25. Glass sliver
- 26. Type of soup
- 27. UFO commander
- 28. Device that separates solids by settling rates
- 29. Rowing team
- 30. Planet path
- 31. Sib's kid
- 32. One who terminates
- 35. Praise
- 36. Likely
- 45. *Break ____ Gently* (song)
- 47. Charged particle
- 49. Danger
- 50. Angle measuring < 90 degrees
- 51. Snead and Cooke
- 52. Timber pine
- 53. Egyptian skink
- 54. Experimental numbers
- 55. *Gone with the Wind* plantation
- 56. Keto tautomer
- 57. Study method
- 58. Catch on a jagged limb

Solution on page 19.

Others

SUNY-STONY BROOK DEPARTMENT OF CHEMISTRY — CHEMISTRY RESEARCH DAY

Tuberculosis: From Little Pigs to the Magic Mountain and Beyond

Speaker: Prof. Peter J. Tonge
Dept. of Chemistry
SUNY-Stony Brook

The Stony Brook Chemistry Department is hosting a research celebration, open to the public. Our entire department will be on display, with approximately 100 researchers presenting posters about their work. Graduate students, undergraduates, and postdocs will be ready to explain their research both to other chemists and to the general public. Tours of the department will also be available. Chemistry Research Day will close with a public lecture by Prof. Peter Tonge.

Date: Friday, March 5, 2004

Times: Lunch 12:30 PM

Poster Session 1:30 PM

Reception 3:30 PM

Colloquium 4:00 PM

Place: Student Activities Center
State University of New York
Stony Brook, NY

Cost: Free (reservations required
for lunch)

Please contact Ms. Rita Nicholaides at (631) 632-7885 or rnicholaides@notes.cc.sunysb.edu for further information and reservations.



LEADERSHIP DEVELOPMENT WORKSHOPS: APPLY NOW FOR 2004!

Two YCC Leadership Development Workshops will be held at ACS regional meetings in 2004: the Southwestern Regional Meeting in Fort Worth, Texas (September 29 to October 2) and the Northeastern Regional Meeting in Rochester, NY (October 31 to November 3).

ACS members who would like to apply for a YCC Leadership Development Award in order to attend one of these workshops should submit their applications to the

Younger Chemists Committee, c/o Stephanie Allen, American Chemical Society, 1155 16th Street, NW, Washington, DC 20036 by **April 1, 2004**. Applications in both electronic and printable formats are available online at chemistry.org/ycc.

Since participation is limited, YCC will be extending invitations for each workshop only to 15 interested ACS members who have external support. ACS members who would like to attend one of the workshops with the support of their employers or ACS local sections, divisions or committees should contact Stephanie Allen at s_allen@acs.org.



CHEMAGINATION

Interested in working with students? Hoping to involve more teachers in section activities? We are seeking people with connections to high school chemistry teachers and/or an interest in motivating high school students in the field of chemistry to be part of a Chemagination committee and to run a contest in the area.

Chemagination is a chemistry essay and poster contest for students in grades 9-12. Students look 25 years into the future and write an article that they believe could appear in "ChemMatters" magazine about an innovation or breakthrough in the field of chemistry that they think will be important in the lives of teenagers at that time. Student articles focus in one of four categories: Biotechnology, Medicine/Healthcare, New Materials or Transportation/Environment.

For information about the contest, visit <http://chemistry.org/chemagination>, call 1-800-227-5558 ext. 4458 or email Chemagination@acs.org.



CHEMISTS CELEBRATE EARTH DAY, APRIL 22 2004

What Do You Know About H₂O?

Members of the American Chemical Society's Committee on Community Activities invite you to participate in Chemists Celebrate Earth Day on April 22, 2004. The program is a joint effort between the ACS Committee on Community Activities, the Committee on Environmental Improvement, and the Green Chemistry

Institute Chemists Celebrate Earth Day provides volunteers with an opportunity to showcase chemistry's contributions to sustaining a healthy planet and environment as part of the annual Earth Day celebration.

The 2004 theme for Chemists Celebrate Earth Day is "What Do You Know About H₂O?" As part of the celebration, the American Chemical Society is sponsoring a music video competition for students in grades K-12. The contest encourages students to produce a music video best illustrating the theme "What Do You Know About H₂O?" As the unifying event, local sections are asked to participate in "Testing Rain Water," an activity designed to measure the acidity of rainwater in area communities and to compare results online to national findings. The web activity is made available through ACS collaboration with members of the National Atmospheric Deposition Program (NADP) and the ACS East Central Illinois Section. Hands-on activities as well as a sample press release and templates are available at <http://chemistry.org/earthday>. For additional information, contact the ACS Office of Community Activities at 1-800-227-5558, ext. 6078.



NEW JERSEY INSTITUTE OF TECHNOLOGY — DEPARTMENT OF CHEMISTRY & ENVIRONMENTAL SCIENCE

Seminar Series — Spring 2004

Place: Tiernan Hall, Room 373
NJIT, Newark, NJ

Sponsored by: Purdue Pharma L.P.
Cranbury, NJ

and

Bristol-Myers
Squibb Company
New Brunswick, NJ



Wed., March 3, 2004 — 1:00 PM

The Dopamine Transporter: Target for Cocaine and Pharmacotherapy
Dr. Maarten Reith
Dept. of Psychiatry
NYU School of Medicine, New York, NY

Wed., March 10, 2004 — 1:00 PM

Strategies and Technologies in Modern Drug Discovery: Impact and Challenges of Integrated High-throughput Approaches
Dr. Charles Manly
V.P., Discovery Technologies
Neurogen Corporation, Branford, CT

Wed., Mar. 24 2004 — 1:00 PM

A 3D QSAR Model of HERG Potassium Channel Inhibitors
Dr. Robert Pearlstein
Aventis Corporation, Bridgewater, NJ

Seminar Series Coordinators:

Dr. Carol Venanzi
venanzi@njit.edu
973-596-3596

Dr. Sanjay Malhotra
malhotra@njit.edu
973-596-5583



ASSOCIATION OF CONSULTING CHEMISTS & CHEMICAL ENGINEERS

See under NJ Group of Small Chemical Businesses, page 14.

Puzzle Solution

1	U	S	S	R		5	F	I	S	T		9	Z	A	I	R	E
14	T	T	U	U		15	I	D	E	E		16	O	I	L	E	R
17	A	L	A	I		18	L	E	I	S		19	D	R	E	S	S
20	S	U	B	N	A	21	T	A	N	T		22	I	F	T	H	E
					23	D	E	L	E	H	A	24					
25	S	P	A	C	E	R				26	C	Y	C	L	O	N	E
33	H	U	L	L		34	C	H	A	R	D		37	T	R	I	N
38	A	R	I	A		39	L	E	P	E	R		40	E	B	E	D
41	R	E	E	S		42	O	R	T	W	O		43	R	I	C	E
44	D	E	N	S	I	45	T	Y			46	S	I	S	T	E	R
					48	I	T	H		49	P	A	T	O			
51	S	H	A	F	T		54	D	E	C	A	N	55	T	E	R	S
59	A	U	D	I	O		60	A	R	U	T		61	A	N	O	N
62	M	O	D	E	M		63	T	I	T	I		64	R	O	T	A
65	S	N	A	R	E		66	A	L	E	C		67	A	L	E	G