

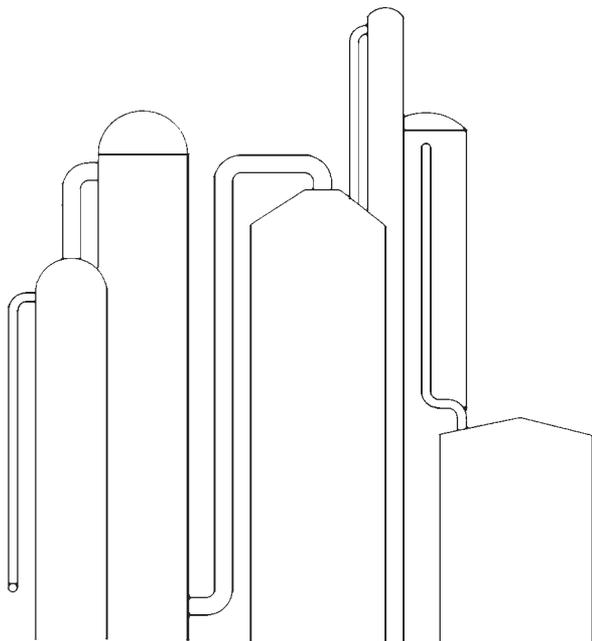
THE **Indicator**

JUNE 2004

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August 22-26, 2004
Philadelphia, PA**

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THE Indicator

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

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EDITORIAL DEADLINES

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



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

June Calendar

NEW YORK SECTION

Thursday, June 10, 2004

Chemical Marketing & Economics Group

See page 5.

NORTH JERSEY SECTION

Thursday, June 3, 2004

Careers in Transition

See page 6.

Deadline for items to be included in the October 2004 issue of *The Indicator* is August 15, 2004.

Friday, June 4, 2004

ChemTAG

See page 6.

Wednesday, June 23, 2004

NMR Topical Group

See page 7.

Education

THE MA PROGRAM AT THE CITY COLLEGE OF NEW YORK



Would you like to increase your educational background but you are not sure if the Ph.D. degree is best for you? The City College offers the MA program in Chemistry. Course offerings every spring and fall provide state-of-the-art education in the areas of organic, inorganic and environmental chemistry. Classes in the

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For courses leading to the MA degree in biochemistry
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THE NEW YORK SECTION AND THE INDICATOR ARE PARTNERING FOR ELECTRONIC COMMUNICATION

Starting with the September issue, most New York Section members will obtain their version of *The Indicator* online AND weeks earlier than the printed version. In addition to early delivery, updated programs and meeting changes will be available as little as four hours prior to the meeting at the New York Section website (www.NewYorkACS.org). Additionally, we hope to have expanded abstracts, photographs, directions and on-line registration as the project progresses.

Initially, all NY Section members who have e-mail addresses will automatically receive the electronic version in place of the print version. They will receive a monthly e-mail reminder when each issue of *The Indicator* is posted online. Those who have no e-mail address listed with the ACS will continue with the print version.

YOU CAN CHANGE THE VERSION RECEIVED AT ANY TIME BY INFORMING THE NEW YORK SECTION OFFICE AT THE ADDRESS LISTED BELOW.

LOOK FOR ANNOUNCEMENTS ABOUT THE EXACT STARTING DATE FOR THIS PROJECT.

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5. Print version of *The Indicator* only.

* You must list your e-mail address with your ACS membership to receive e-mail notification.

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New York Meetings

www.newyorkacs.org

CHEMICAL MARKETING & ECONOMICS (CM&E) GROUP

Winning in the World of Specialty Chemicals During a Time of Change

Speaker: Dr. Elie Saad
Director, Functional Chemicals
Bayer Chemicals Corp.
(soon to be known as Lanxess)
Pittsburgh, PA

Date: Thursday, June 10th, 2004

Times: Cocktails 11:30 AM
Luncheon 12:00 Noon
Presentation 1:15 PM

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

Cost: \$35 discount price for Members who reserve by **Tuesday, June 8 (12 noon)**; \$50 for Guests and Members (at the door without reservations)

To 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. To pay online, go to the CM&E Website: <http://home.nyc.rr.com/chemmarkecon/>

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 searching.

The next meeting for the Careers In Transition Group will be held **Thursday, June 3, 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.

There will be no meeting in July and August.

Please contact vjkuck@yahoo.com, if you plan on attending this meeting.



ChemTAG

A special presentation for ChemTAG members will begin promptly at 4:00 pm. Plan on arriving early. A barbeque at Bernie Donegan's will follow the meeting.

Date: Friday, June 4, 2004

Time: Presentation 4:00 PM

Place: Sterling Mine

Cost: \$10.00

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

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NMR TOPICAL GROUP

NMR from the View of a Mass Spectrometrists

Speaker: Dr. Daniel L. Norwood
Boehringer Ingelheim
Pharmaceuticals, Inc.
Ridgefield, CT

Dr. Norwood will talk to us about his experience in the pharmaceutical industry regarding the analysis of small organic molecules. The particular focus of his talk will be the relative strengths and weaknesses of MS vs. NMR, as well as the professional and scientific interactions of Mass Spectrometrists and NMR Spectroscopists.

Dr. Daniel L. Norwood is Senior Principal Scientist and Section Leader in the Analytical Sciences Department at Boehringer Ingelheim Pharmaceuticals, Inc. in Ridgefield, CT. He is responsible for the Preclinical Analysis Section, which includes the Structural Analysis, Materials Analysis, Microscopy, and Toxicology Analysis Groups, which includes mass spectrometry and NMR spectroscopy. Dr. Norwood received his Ph.D. in Environmental Chemistry from the University of North Carolina at Chapel Hill, and has over 27 years of experience in structure elucidation and trace organic analysis in the pharmaceutical and biomedical areas. He chairs the PQRI (Product Quality Research Institute) Working Group on Leachables and Extractables and has served on several International Pharmaceutical Aerosol Consortium (IPAC-RS) working teams relat-

ed to container/closure system issues, analytical methods and regulation.

Date: Wednesday, June 23, 2004

Times: Beverages in the lounge 5:45 PM

Dinner 6:30 PM

Seminar 7:00 PM

Place: Woodbridge Hilton

Cost: \$10 for students and post-docs,
for all others \$30.

News from the Group: Thanks to a generous donation from Varian, Inc. we were able to purchase our own LCD projector. After the June meeting, we will resume our regular program in September, and we have a tentative list of speakers throughout the rest of the year. Topics will include Specialty Chemicals, Surface Chemistry, and others.

Please visit our Website at <http://njacs.org/nmr.html> for further information. Our June meeting is exciting and, again, of interdisciplinary interest. The particular focus will be on the analysis of small organic molecules by NMR and MS, emphasizing the individual strengths and weaknesses of these analytical methods. Please join us for our June 23rd meeting.



ACS-TA EXECUTIVE COMMITTEE MEETING

Details TBA

Contact: Diane Krone at (201) 385-4810 or
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Call For Nominations

ACS NEW YORK SECTION'S OUTSTANDING SERVICE AWARD FOR 2004

Each year the New York Section presents an Outstanding Service Award to a very deserving member. Many members of the New York Section provide their time, leadership talent, educational skills and other valuable assets to the New York Section.

The tradition of excellence of the New York Section is directly attributable to the cumulative effect of these individuals. Please help us to recognize the efforts of our colleagues by nominating them for this award. The award will be presented at the New York Section's General Meeting and Section-wide Conference in January 2005.

Nominations with supporting data should be mailed to Professor Yorke E. Rhodes, 1629 Glenwood Road, Route 565, Sussex, NJ 07461 or e-mailed to yr2@nyu.edu

For more information about the award along with a list of former award recipients, please visit the New York Section website at www.NewYorkACS.org.

Nominations should be forwarded to Professor Rhodes by **June 30, 2004**.

Others

CACS ANNUAL SYMPOSIUM

Focus on Frontiers of High Throughput Technologies and Applications

Jointly sponsored by the Chinese American Chemical Society and the Department of Pharmaceutical Chemistry, Ernest Mario School of Pharmacy, Rutgers University

Date: Saturday, June 5, 2004

Place: Fiber Optics Auditorium
Rutgers University, Busch Campus
607 Taylor Road
Piscataway, New Jersey

Agenda

8:15 AM

On-site Registration, Vendor & Poster Setup, Wake Up Coffee & Donuts

8:50 AM

Welcome Remarks
Dr. Kuangnan Qian
Tristate CACS President

Session Chair: Dr. Kuangnan Qian
ExxonMobil

9:00 AM

"The Role of HTE on "CombiCATS" (Metal Oxides /Micro-Meso Porous Supports) for Petrochemicals and Refining"



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Dr. Jeffrey S. Beck
Director of Catalyst Technology
ExxonMobil Research & Engineering
Company

9:30 AM

"Recent Developments and Trends in High-Throughput MS and MS/MS Analyses"
Professor Jack Henion
President of Advion BioSciences

10:00 AM

"Career Path in a Corporate Setting"
Dr. Helen Han Hsu
Sr. Director, J&J

10:20 AM

Social break

Session Chair: Dr. Longqin Hu
Rutgers University

10:40 AM

"High Throughput Screening Applications for Microbial Functional Genomics"
Professor Gerben J. Zylstra
Director of Biotechnology Center for Agriculture and the Environment
Rutgers University

11:10 AM

"Avoiding Bottlenecks in High Throughput Experimentations"
Dr. Ulrich E. Hackler
Business Manager of Chemspeed, UK

11:40 AM

"How Best to Start a Company and Develop it into a Nasdaq Listed Company in 3 to 5 Years"
Dr. Joseph Mo
CEO, NexMed, Inc.

12:00 AM

Lunch

Session Chair: Dr. Yuguang Wang
Schering Plough

1:00 PM

"High-Throughput Synthesis: Impact on Drug Discovery and Beyond"
Dr. Brian McKittrick
Associate Director and Head of CombiChem
Schering Plough Research Institute

(continued on page 10)



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CACS ANNUAL SYMPOSIUM

(continued from page 9)

1:30 PM

"R&D Outsourcing and High Throughput Research in China—a History and Recent Development of PharmaTech"

Dr. Ge Li

Chairman and CEO

WuXi PharmaTech Co., Ltd.

Shanghai, China

2:00 PM

"From Bench Work to Business World"

Dr. T. Ben Hsu

V.P., Finance & Control

Quest Pharmaceutical Services

2:20 PM

Social Break

Session Chair: Dr. Teh Ho
ExxonMobil

2:40 PM

"Patent Trends in High Throughput Technologies"

Dr. Kent H. Cheng

Cohen, Pontani, Lieberman & Pavane

3:10 PM

"Combinatorial Chemistry for Novel Material Development at ITRI"

Dr. Jassy Wang

Deputy General Director

Union Chemical Lab., ITRI

Taiwan, ROC

3:40 PM

"Adapting to the US Work Environment"

Dr. Lisa I. Yeh

Advanced Research Associate

ExxonMobil Research & Engineering

Company

4:00 PM

Introducing CACS Mentor Program

Dr. Yongkui Sun

Merck Co.

Dr. Lisa I. Yeh

ExxonMobil

4:10 PM

Concluding Remarks

Dr. Teh Ho

CACS President

4:15 PM

Meeting Adjourned

Registration: Free

Register Online at: www.tristatecacs.org
or contact one of the following Tristate CACS representatives for registration.

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Special Symposium: "Ionic Liquids in Organic Synthesis"

Sponsored by: American Chemical Society
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Organizer: Prof. Sanjay V. Malhotra
Department of Chemistry
and Environmental Science
New Jersey Institute of
Technology, Newark, NJ

Overview: The symposium will consist of four half-day sessions of oral presentations and one poster session.

Topics:

- Organic Reactions
- Biosynthesis
- Polymerization
- Nanosynthesis
- Catalysis (Asymmetric, Bio-, Homogeneous & Heterogeneous)
- Electrochemistry etc.

Date: August 22-26, 2004

Place: Philadelphia, PA, USA

Cost: Free and open to all.

For more information: E-mail: malhotra@njit.edu, Phone: 1-(973) 596-5583 or Fax: 1-(973) 596-3586.

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Instructor: Teresa Edmondson, Founder
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Teresa Edmondson brings over 15 years of management and consulting experience to her audiences. She has worked with numerous Fortune 100 companies, as well as not-for-profit firms, including clients such as Compaq, ExxonMobil, Shell Oil, and Raytheon Systems Company. Teresa offers expertise in the areas of leadership and team development, workplace communication and emotional intelligence.

Date: Sunday, August 22, 2004

Times: 8:00 AM - 4:00 PM

Place: ACS Fall National Meeting
Philadelphia, PA

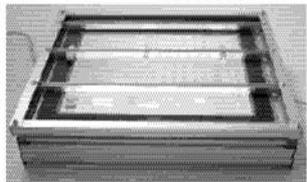
Cost: \$199 per participant.

How to Register: Print the registration from the WCC website at

<http://membership.acs.org/w/wcc/>

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NORTH JERSEY CHROMATOGRAPHY GROUP

Symposium: The Fundamentals of MS and MS-MS for Chromatographers

"HPLC Method Development for LC/MS: Transfer of Conventional HPLC Methods to LC/MS"

Speaker: Shane Needham, PhD.

The section discusses the importance of HPLC when interfaced with mass spectrometry including the separation of undetected matrix components, isomers and labile metabolites. The development of HPLC methods for LC/MS for use in qualitative and quantitative analysis throughout drug discovery and drug development are presented. The most advantageous column chemistry for each LC/MS application are thoroughly discussed. Details of choosing the mobile phase additives, mode of separation, and best column size for a particular application are presented. The aspects of chromatographic retention, peak shape and resolution relative to LC/MS methods will also be presented. A section of the course is devoted to the minimization of adverse ionization effects that occur in the MS source by the development of good quality HPLC methods. The modifications of conventional HPLC methods to those compatible with LC/MS are also presented. Specific examples are included for each topic discussed including "real-world" problem solving and applications.

"Introduction to API Mass Spectral Interpretation"

Speaker: Cecilia Basic, PhD.

A summary of the tools available when interpreting of both full-scan LC/MS and product ion LC/MS/MS spectra collected using the atmospheric pressure ionization methods (API) of electrospray (ESI) and atmospheric pressure chemical ionization (APCI) will be presented. Tools included determining molecular mass from ions, rules for determining the number of N-atoms and C-atoms present in a molecule, as well as the use of isotopic ion patterns to identify heteroatoms. The use of accurate mass measurements to confirm proposed structures as well as to generate lists of possible formulae for unknowns was also described. A summary of the general rules guiding the fragmentation of ESI-generated ions lead to an understanding of the origins of fragment ions seen in a mass spectrum.

"An Introduction to LC-MS and LC- MSMS of small molecules"

Speaker: Philip R. Tiller, PhD.:

The purpose of this presentation is to discuss the most prevalent mass spectrometry instrumentation found in a modern LC-MS laboratory. The presentation will focus on single quadrupole, triple quadrupole and ion trap mass spectrometers, these currently being the most frequently encountered LC-MS instruments.

A brief discussion of Atmospheric Pressure Ionization (API), highlighting the basic principles of both Electrospray (ESI) and Atmospheric Pressure Ionization (APCI) LC-MS.

Then a discussion of how a single quadrupole operates and the strengths and weaknesses of such an instrument will be followed by a discussion of how a triple quadrupole operates, providing an overview of the different MS/MS scan types possible using a triple quadrupole. The utility of the different MS/MS scan types will be compared with those possible using a single quadrupole mass spectrometer. The relative strengths and weaknesses of single and triple quadrupole instruments will be discussed. Following that a discussion of Ion Trap mass spectrometry will occur, highlighting the unique characteristics of such instruments and a comparison of ion trap and quadrupole instrumentation.

A brief discussion of some new analyzer types will end this presentation.

Biographies:

Dr. Shane Needham is Laboratory Director at Alturas Analytics, Inc. where he manages all scientific aspects of the HPLC/MS/MS bioanalytical contract laboratory. He has over 11 years of LC/MS and analytical lab experience in the drug discovery through drug development stage in the pharmaceutical industry. He previously worked for Pfizer Inc. in Groton, CT where he developed and validated GLP and non-GLP LC/MS/MS methods for the trace analysis of drugs and metabolites in biological fluids. He also performed in vivo and in vitro structure elucidation studies of drugs and metabolites using HPLC/MS/MS and HPLC/MSn instrumentation. His area of academic research included the development of optimized stationary phases to improve the assay of pharmaceuticals by HPLC/MS. Shane obtained his Ph.D. in Chemistry from the University of Rhode Island under the direction of Dr.

Phyllis R. Brown. Shane has over 60 publications and external presentations in the area of LC/MS. Shane also teaches LC/MS courses on the national and international level. Shane is a member of the American Chemical Society, American Society for Mass Spectrometry, American Association of Pharmaceutical Scientists and the International Society of the Study of Xenobiotics.

Dr. Cecilia Basic received her Ph.D. in analytical mass spectrometry under the supervision of Dr. Richard A. Yost at the University of Florida and her M.Sc. degree in mass spectrometry under the supervision of Dr. Alex Harrison at the University of Toronto. She has over 15 years of experience in mass spectrometry fundamentals and applications and has published numerous research articles and book chapters.

As owner of Basic Mass Spec, she has been conducting workshops in industry on the fundamentals of mass spectrometry instrumentation, methods and data analysis, as well as hands-on LC/MS/MS training sessions for over 5 years.

In addition, she is also currently an adjunct professor at Lehigh University through their Distance Education Program and is a past professor at Villanova University. Dr. Basic has also worked as a Visiting Scientist at the Beckman Research Institute at the City of Hope and as a scientist at NASA's Jet Propulsion Laboratory.

Dr. Philip R. Tiller obtained his PhD at the Imperial College of Science Technology and Medicine, University of London. Since then he has worked for both VG (now Micromass) and Finnigan. He has also worked in the Pharmaceutical industry initially at Glaxo in England and is now at Merck in the U.S. His focus has been the application of mass spectrometry in solving analytical problems.

Date: Monday, August 16, 2004

Times: Registration 8:00 AM (Continental breakfast provided)
Symposium 9:00 AM - 4:30 PM
(lunch included)

Place: Somerset Marriott Hotel
Somerset, NJ

Cost: \$100.00 (payment information will be announced at a later date)

Please reserve by: **Monday, August 9, 2004** at our website: <http://www.njacs.org/chroma.html>

Directions to the hotel are also available here.

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Personal Care Products: History and Emerging Technology

Speaker: Michael W. Heliuff
MH Consulting

Michael W. Heliuff is a consultant in personal care products. He has over 40 years of experience including GAF, ISP and Norville, Inc.. His background includes 32 US Patents and 7 publications in this area. Mr. Heliuff holds a BS in Chemistry from the University of Charleston, WV.

Date: Tuesday, June 22, 2004.

Time: Networking 6:00 PM
Dinner 6:30 PM
PrePM

Place: Sheffield's Catering
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Cost: \$40 Members
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The Indicator is interested in adding new features to the publication. Your input would be appreciated. Please let us know which type of feature you would like to see in future issues; i.e., book reviews, member news, short articles about your research or other ideas. Would you be willing to assist in gathering or writing such material?

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ANNUAL INDICATOR BUYER'S GUIDE

Your Buyers Guide Listing is free! If you are not listed in this year's Guide, please contact Vince Gale at (781) 837-0424, Fax (781) 837-8792, e-mail: vincgale@tiac.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. Our members will use this guide as a way of finding vendors who can service their needs when they are trying to solve a problem, need equipment, restock inventory, or require consultant services, and they will keep this reference until the next one is published.

This directory will be given to our 12,000 members for their use. This issue has excellent advertising value because it is kept and referenced for the full year. For key numbers, see "Products and Services Directory" on page 30. If you wish to be in next year's Guide, please contact Vince Gale as noted above.

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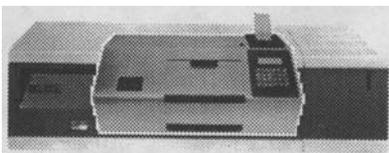
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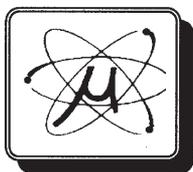


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