

THE **Indicator**

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EDITORIAL DEADLINES

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
October	August 15



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www:TheIndicator.org

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

September Calendar

NEW YORK SECTION

Thursday, September 9, 2004

Chemical Marketing & Economics Group

See page 20.

Tuesday, September 28, 2004

Biochemical Topical Group

See page 21.

Contribute to *The Indicator*

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

Contact the Editor at:
sturchio@optonline.net
Phone: (973) 331-5142
Fax: (973) 331-5143

NORTH JERSEY SECTION

Thursday, September 9, 2004

Careers in Transition

See page 5.

Thursday, September 9, 2004

NoJ Mass Spectrometry Discussion Group

See page 6.

Sunday, September 12, 2004

Younger Chemists Committee

See page 6.

Monday, September 13, 2004

No. Jersey Teacher Affiliates

See page 7.

Wednesday, September 15, 2004

ChemTAG

See page 7.

Thursday, September 23, 2004

NJ Group of Small Chemical Businesses

See page 11.

Monday, September 27, 2004

Project SEED Poster Session

See page 7.

Monday, September 27, 2004

No. Jersey Executive Committee

See page 5.

Tuesday, September 28, 2004

Chinese American Chemical Society

Chemical Symposium

See page 11.

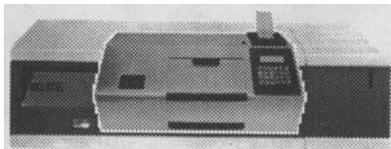
Wednesday, September 29, 2004

Chem Central

See page 12.

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

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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 on the day of the monthly Topical Group Meetings, at the same location. All ACS members are welcome to attend.

The following topical group will meet: Project SEED Poster Session. September meeting will be held on:

Date: Monday, September 27, 2004

Times: SEED Poster Session 4:30 PM
Social Hour 5:30 PM
Dinner 6:00 PM

Place: Seton Hall University
400 South Orange Avenue
South Orange, NJ

Cost: Dinner \$20.00

Reservations: for dinner call (732) 463-7271 or acsoffice@aol.com and state your wish to make reservations for the ACS dinner before Wednesday, September 22, 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, September 9, 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.

Education

THE STATE UNIVERSITY OF NEW JERSEY
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Graduate Chemistry Courses Fall 2004

511 *Advanced Organic Chemistry*
Dr. Hugh Thompson
Mon 6:00–8:50 pm, 240 Smith Hall

581 *Biochemistry*
Dr. Charalampos Kalodimos
Tue 6:00–8:50 pm, 240 Smith Hall

517 *Photochemistry*
Dr. Elena Galoppini, Wed 6:00–8:50 pm
Wed 6:00–8:50 pm, 240 Smith Hall

To learn about non-degree, or full-time and part-time graduate programs, go to <http://chemistry.rutgers.edu>, or call the graduate secretary at 973-353-5173, or send email to gradchem@newark.rutgers.edu

Classes will be held on Newark Campus of Rutgers.
The Fall 2004 term begins on Wednesday, September 1.

NORTH JERSEY MASS SPECTROMETRY DISCUSSION GROUP

Invitation to Vendors

Vendor Show

12:00 - 1:00 PM

Vendor Set Up Time

1:00 - 8:00 PM

Vendor Show in the Double Tree Hotel Ballroom

4:00 - 5:00 PM

Refreshments Provided in the Ballroom

5:30 - 7:00 PM

Dinner Served in the Ballroom

7:00 - 7:30 PM

NJACS-MSDG Announcements

7:30 PM

Dr. R. Graham Cooks

(Henry Bohn Hass Distinguished Professor)
Department of Chemistry
Purdue University, West Lafayette, IN

Dr. Ronald Hendrickson

Merck, Rahway, NJ

8:00 - 10:00 PM

Vendor Tear Down Time

Date: Thursday, September 9, 2004

Times: 12:00 - 10:00 PM

Place: Double Tree Hotel, Somerset, NJ

Cost: \$750 (payable to NJACS-MSDG)

Facilities: 6' table and electricity (where needed).

Getting your spot for the vendor show is only possible by making a reservation with Ragu Ramanathan (**Ragulan.Ramanathan@spcorp.com** or 908-740-2799) and through receipt of your \$750 payment by our Treasurer at: Ragu Ramanathan, Schering-Plough Research Institute, K15-3-3700, 2015 Galloping Hill Road, Kenilworth, NJ 07033



YOUNGER CHEMISTS COMMITTEE

Annual Picnic

Come join fellow students and young professional chemists at our annual fall picnic. This is a great opportunity to meet other chemists and have fun, while enjoying the outdoors. Feel free to bring your favorite sports equipment. Friends and Family are welcome!

Date: Sunday, September 12, 2004

Time: Picnic starts at 12 Noon

Place: Johnson Park

River Road

Piscataway, NJ

Price: FREE!

Registration: Please register **by Friday, September 10** at 12 noon either on-line at <http://www.njacs.org/ycc.html> or via email to jacqueline.a.erickson@gsk.com.

More information and directions are available on-line at <http://www.njacs.org/ycc.html>

YCC October Beer Tasting Dinner

Come join the YCC in October for a Beer Tasting and Dinner! There will be a gourmet dinner with beers carefully matched to the food. Date and time to be announced. Visit our webpage (<http://www.njacs.org/ycc.html>) for more information.



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ACS-TEACHER AFFILIATES

Executive Meeting

Date: Monday, September 13, 2004

Time: 4:30 PM

Place: Chatham High School
255 Lafayette Avenue
Chatham, NJ

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



ChemTAG MEETING

Teacher share-a-thon

Date: Wednesday, September 15, 2004

Time: 4:00 PM

Place: Pascack Valley High School
200 Piermont Avenue
Hillsdale, NJ

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

PROJECT SEED — POSTER SESSION

Come to the 18th annual North Jersey SEED poster session and learn about the latest research from 80 laboratories.

On Monday, September 27, talk to the scientists of tomorrow. You will receive highlights of research in organic, pharmaceutical, biological, analytical, environmental, computational, inorganic, physical, and bio-engineering, biochemistry, food, cosmetic, plant, and materials science, and drug development.

Your interest is crucial. Thanks to your help, the SEED students will be further inspired. There will be SEED students from NJIT, Rutgers (all campuses), Seton Hall, Stevens, Montclair, UMDNJ in Newark and New Brunswick, William Paterson, New Jersey City University, Fairleigh Dickinson, Fordham, Hunter, EOHSI and NJ Meadowlands Environmental Organization, Unilever Research, Sloan Kettering and Garden State Cancer Centers. (Students from NYC who worked at NYU, CUNY cam-

(continued on page 8)

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PROJECT SEED POSTER SESSION

(continued from page 7)

pusés, and Cornell, Columbia, and Albert Einstein Medical Schools will present in NYC.)

Thanks are due to the mentors' kindness and dedication, and funds donated by school boards, Johnson & Johnson, Novartis, Unilever, Rutgers Nanotechnology and CAPE Centers, EOHSI, the Bader family, the ACS SEED endowment and many individual chemists.

The poster session will take place between 4:30 and 6:30 as part of the social hour of the Monday, September 27, North Jersey ACS meeting. It is at Seton Hall University, South Orange Avenue (corner Centre Street), South Orange, NJ, in the Student Center. Everyone is invited. There is no charge and no reservations are needed if you go to the poster session and cannot stay for dinner. To stay for dinner, call (732) 463-7271 by **September 16**. While you are

there, stay for one of the after-dinner talks.

To be a judge, and receive a free buffet dinner, call Susan Fahrenholtz at (973) 338-6588 or Allene Johnson at (973) 763-6883.

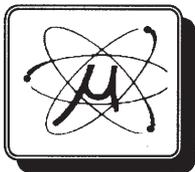
Date: Monday, September 27, 2004

For times, place, and cost, see under No. Jersey Executive Committee Meeting, page 5.



NEW JERSEY SCIENCE CONVENTION

2004 marks the 200th anniversary of the death of Joseph Priestley. Ron Blatchley, dressed as Priestley, will perform some of his experiments and discuss his philosophy at the New Jersey Science Convention. The convention takes place **October 12-13** at the Garden State Exhibit Center, Somerset, NJ. Visit the convention website at <http://njsc-online.com/> for more details.



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“FROM BENCH TOP TO PILOT PLANT” SYMPOSIUM

The Organic Topical Group of the North Jersey Section of the American Chemical Society (NJACS) invites you to attend a technology development symposium entitled “From Bench Top to Pilot Plant” - a forum where chemists from industry research, process development and pilot plant operations disseminate and discuss their experiences toward developing a product or a process from lab scale to the pilot plant scale. This exciting symposium is intended to introduce research chemists to the emerging technologies in product development and to help development chemists learn more about technology transfer, scale-up, and commercialization issues. It is also intended to instruct chemistry students about potential chemical industry careers. The speakers are well respected in their fields and will discuss the chemistry, economics, and environmental issues involved in the development of respective products. An extended “social hour” at the end of the technical presentations offers a great opportunity for professional networking.

Date: Thursday, October 28, 2004
Times: 12:00 P.M.- 7:00 P.M.
Place: The Madison Hotel, Morristown, New Jersey
Directions: www.njacs.org

REGISTRATION DEADLINE IS OCTOBER 21, 2004

12:00-1:00 Registration

1:05-1:55 Dr. Stuart Mickel, Novartis Pharmaceuticals, Basel, Switzerland
“From Deep Sea Sponge to Pilot Plant: Discodermolide. Adventures in Natural Product Synthesis”

1:55-2:45 Dr. Robert Cain, Hoffman-La Roche, Boulder, Colorado
“Challenges in the Scale-up of Convergent Solid/Liquid Phase PeptideSynthesis”

2:45-3:15 Coffee Break — Refreshments/Vendor Displays

3:15-4:05 Dr. David Kronenthal, Bristol-Myers Squibb, New Brunswick, NJ
“Synthesis of Vasopeptidase Inhibitors”

4:05-4:55 Dr. Ulf Dolling, Merck & Co, Rahway, NJ
“Development of Manufacturing Process for EMEND”

5:00-7:00 Social — Buffet/Cash Bar/Vendor Displays

- Please return the bottom part with the registration payment by October 21, 2004 -

Name: _____ Organization: _____
Phone: ____ - ____ - _____ E-Mail : _____
(needed for confirmation)
Registration Fee: ___ \$45 (advance) ___ \$20 (students) ___\$50 (on-site)

Please make your check payable to the "North Jersey Section ACS" and send it to:
Dr. Z. Jake Song, Merck & Co., RY 800-B275, P.O. Box 2000, Rahway, NJ 07065

ORGANIC TOPICAL GROUP, SPRING SYMPOSIUM



Speakers with members of the Organic Topical Group at the Spring Symposium, May 27, 2004, at Rutgers University, Busch Campus, New Brunswick, NJ. (Left to right) Drs. S. Chandramouh, A. Evans, H. Davies, L. Williams, A. Charette, Z. Song, B. Stoltz, M. Miller and J. Tagat.

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NJ GROUP OF SMALL CHEMICAL BUSINESSES

Homeland Security Regulations – Compliance Issues for Manufacturing Facilities

*Speaker: Representative from the
Department of Homeland Security*

Today's manufacturer has an added layer of regulatory compliance to deal with: how to protect the manufacturing facility from terrorist efforts to disrupt business. The Department of Homeland Security has issued a series of regulations governing the safety of manufacturing plants. Here is an overview of the compliance actions and timelines a manufacturer must recognize in order to avoid unnecessary risk or agency fines. Make your job easier by attending this meeting and getting up to speed on compliance issues.

Date: Thursday, September 23, 2004

Times: Networking 5:30 PM Cash Bar
Dinner 6:30 PM
Presentation 7:15 PM
Q & A - Networking - Dessert
8:00-8:30 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
Payment may be made in advance
or at the door.

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

Please cancel 48 hours in advance or be
invoiced.



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Chemistry in Bioanalytics, Drug Metabolism and Pharmacokinetics

Program at a Glance

4:30 PM
On-site Registration, Social Hour, Vendor
Setup

6:00 PM
Dinner

6:45 PM
Welcome Remarks
Dr. Y. Tony Hsieh
Program Chair

6:50 PM
**Pre-Clinical DMPK Strategies to
Minimize Attrition in Drug Development**
Dr. Richard Morrison
Group Director of Exploratory DMPK
Schering-Plough Research Institute

7:20 PM
DMPK Matters
Dr. Francis L. Tse
Executive Director of Bioanalytics and
Pharmacokinetics
Novartis Pharmaceuticals Corporation

7:50 PM
**Mass Spectrometry in Protein
Biomarker Discovery and Quantitation**
Dr. Robert Masse
Vice President of Sciences and Technology
MDS Pharma Services

8:20 PM
**The Integral Relationship between
Chemists and Pharmacokineticists in
Drug Discovery**
Dr. Wen Chyi Shyu
Sr. Director of DMPK
Bristol-Myers Squibb

Date: Tuesday, September 28, 2004
Time: 4:30 PM
Place: Somerset Marriott Hotel
Somerset, NJ
Cost: Dinner \$50.00 for non-CACS
member and \$40.00 for CACS
member

Web: **www.cacshq.org,**
www.tristatecacs.org

For further questions, contact Dr. Shaoqing
Chen (Roche) at 973-2354636, Dr. Jiwen
Chen (Schering) at 908-7404931, Tianhui
Xia (Aventis) at 908-2314890, Dr.
Guaoliang Shi (Merck) at 732-3550297, Dr.
Weiyi Zheng (Novartis) at 862-7785311 and
Dr. Hongjian Zhang (BMS) at 609-252-5084.

CHEM CENTRAL MEETING

Teacher share-a-thon

Date: **Wednesday, September 29, 2004**

Time: 4:00 PM

Place: Ocean Township High School
550 West Park Avenue
Oakhurst, NJ

Contact: Roseann McCarthy at
roseannmc@comcast.net



NJACS-TEACHER AFFILIATES

CHEM ESSENTIALS — A Series of Topical Workshops

Are you A NEW Chemistry Teacher? A Teacher NEW to Chemistry? A Chemistry Teacher Who Is Looking for Something NEW?

Then CHEM ESSENTIALS Is for YOU!

Friday evening workshops will include content, activities, labs, and alternate assessment centered around a different topic each quarter. 4 hours of NJ Professional Development earned for each workshop!

Topics for the 2004-2005 school year:

November 12, 2004

Bonding

February 11, 2005 (snow date)

February 25, 2005)

Stoichiometry

April 22, 2005

Thermochemistry

More topics to come in 2005-06! Brought to you by your friends at CHEM-TAG.

Place: Somerville High School
222 Davenport Street
Somerville, NJ

Cost: Per session \$15.00 for members
\$30.00 for non-members (price includes 1 year membership).
Cost includes handouts and a box supper.

email: pduncan@hpregional.org for more information.

CHEM ESSENTIALS WORKSHOP

Registration Form

Workshop Title(s): _____

Name _____

School _____

School Address _____

City, State, Zip _____

Home Phone _____

Fax _____

E-Mail _____

School District _____

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**NATIONAL CHEMISTRY WEEK
IS COMING SOON**

Why not join the North Jersey Section this year in its outreach to the general public? On **Sunday, October 17** from 12:00-4:00 the Section will be conducting activities at Fairleigh Dickinson University, Madison campus and on **Saturday, October 23** from 9:30-4:30 (you can divide this into shift work) at the Liberty Science Center. Volunteers are needed to put on hands-on activities geared at 8 to 12 year olds.

The theme for this year is "Health and Wellness". Needless to say you are not limited to this topic but it would be appreciated, if a number of our activities dealt with this broad area. As usual our first priority is safety. Preferably, we would like presenters to use household materials to demonstrate a scientific principle. Hopefully, the students will be able to redo these experiments at home and at school. To help in the representation of the activities, handout instructions outlining the activities have been found to be very useful.

If you are out of ideas for safe activities for a table, please send me an email on the topics that you are comfortable in demonstrating and/or explaining.

To minimize duplication of the presentations, we will need to know by **October 2** the activity you would like to conduct at your table. Individuals contacting us first with their idea(s) will be given priority, so please let us hear from you as soon as possible. By **October 12**, we need to have the names and addresses of the individuals who will be joining you at your table.

As usual we are looking for financial support to cover the many expenses associated with our activities and would be most grateful, if you would contact the appropriate individuals at your company.

Please fill out the following forms and return them to me,

Form 1. Count me in.

My name is: _____

I am volunteering to work on:

Sunday, Oct. 17 for the afternoon

Saturday, Oct. 23 9:30-12:30

12-4:00

or all-day

(Underline times).

I can be reached at: _____

(work phone number) _____

My complete address is: _____

I am an employee at: _____

The activities at my table will be: _____

In addition to a table, I also need: _____

I will be bringing handouts on activities that the students can do at home. Yes No

I will need more than one table. Yes No

How many additional tables will you need?

* * * * *

Form 2. I need some ideas.

I am knowledgeable in speaking on the following areas: _____

I can be reached at: _____

My fax number is: _____

* * * * *

Form 3. My company would like to support these efforts.

The following company/individuals are willing to help defray the costs of these events: (Checks should be made out to the North Jersey Section and sent to me.)

(continued on page 14)

NATIONAL CHEMISTRY WEEK

(continued from page 13)

An acknowledgement letter for this contribution should be sent to (name and full address): _____

Form 4. I will be joined at my table by the following volunteers.

(1) Complete Name: _____

Institution: _____

Address (snail mail): _____

Acknowledge letters should be sent to:

Activity: _____

Time Volunteering: _____

(2) Complete Name: _____

Institution: _____

Address (snail mail): _____

Acknowledge letters should be sent to:

Activity: _____

Time Volunteering: _____

(3) Complete Name: _____

Institution: _____

Address (snail mail): _____

Acknowledge letters should be sent to:

Activity: _____

Time Volunteering: _____

(4) Complete Name: _____

Institution: _____

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Acknowledge letters should be sent to:

Activity: _____

Time Volunteering: _____

Thanks very much for all of your help. The Section is most appreciative of your efforts.

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HIGH SCHOOL TEACHERS

Come Celebrate National Chemistry Week

Bring your high school students and set up experiments for young people to come and perform. Give "very young chemists" (ages 5 and up) a chance to experience chemistry first-hand.

This year's theme is HEALTH AND WELL-NESS but feel free to design experiments for any topic of chemistry.

Date: Sunday, October 17, 2004

Times: 12:00 – 4:00 PM

Place: Fairleigh Dickinson University
258 Madison Avenue
Madison, NJ

Please e-mail Bobbi Gorman at rosellerams@yahoo.com to reserve a table and sign up for your topic now. If you can come and help with registration or other details, let me know that as well. Looking forward to being with you.

ChemTAG MEETING

Immediately following the National Chemistry Week event from 12-4:00 PM on **October 17**, the Teacher Affiliates' group will conduct its October ChemTAG meeting. If you plan on staying and your students need to "hang out", let me know so we can make some arrangements for extra rooms. This is a great way to prepare for Mole Day and get the excitement rolling!



NORTH JERSEY ACS 2004 AWARDS

Presented at Annual Awards Dinner, May 2004

Fifty Year ACS Members 2004 in Attendance:

Dr. Harold Gainer
Mr. Charles Albert Carroll
Dr. Nabakrishna Chaudhuri
Dr. Thomas Joseph Dolce
Mr. Francis Figiel
Dr. Patrick Gerard Grimes

(continued on page 16)

SOLUTIONS

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NORTH JERSEY ACS 2004 AWARDS

(continued from page 15)

Mr. Harvey Bruce Klaus
Dr. Paul Allan Lobo
Mr. Francis B. McAndrew
Sister Marian José Smith
Mr. Erik Gustaf Tornqvist
Dr. Harvey A. Yablonsky

NJACS Sister Marian José Smith “Excellence in Chemical Education Award” 2004

Dr. Richard Mendelsohn
Rutgers University, Newark
Funded by Hoffmann-LaRoche

NJACS Burton C. Belden “Distinguished Service Award”

Maureen Chan
Retired, Lucent Technologies

North Jersey Section ACS Edward J. Merrill Award 2004

Fran Zakutansky
Pascack Valley High School

Radio Shack Award for “Academic Excellence in Math, Science and Computer Science”

Diane Krone
Northern Highlands Regional High School

NJMSDG “Award for Achievement in Mass Spectrometry” 2004

Dr. Swapan K. Chowdhury
Schering Plough Research Institute

North Jersey Section ACS Pro Bono Award 2004

Mr. Edward Konsevick
Project SEED Mentor
Dr. Bishambar Dayal
Project SEED Mentor

NJCG “Award for Excellence in Chromatography” 2003

Dr. Matthew Przybyciel
ES Industries

ACS Teacher Affiliates Harvey J. Russell Award 2004

Mrs. Judy Gross
Retired Teacher, Edison School District

ACS Student Affiliates Research Conference Awards 2004

Hilary Fisher
St. Elizabeth’s College
Jean Durana Award 1st Place
Mentors: Drs. Karen Kempler and
Barbara Battelle

Anastasia Amoadkoh
St. Elizabeth’s College
2nd Place

Mentors: Drs. Marc Greenberg and
Chuang-Rung Chang
Bernard Agyei
Fairleigh Dickinson University
3rd Place

Mentor: Dr. Stephen Waller

Chemistry Olympiad Awards 2004

Jacob Sanders
Bergen Academy
Top 20 in U.S. — Teacher David Ostfeld
Fan Zhang
Bergen Academy

Top 20 in U.S. — Teacher David Ostfeld
Harrison Hsu
East Brunswick High School
Teacher Paul Kimmel
Aaron Potechin
Millburn High School
Teacher Neil Gargiulo
Amit Sharma
Highland Park High School
Teacher Howard Goldberg

ACS Student Poster Contest 2004

Mee-Hyun Jang
Pascack Valley High School
Teacher Carrie Jacobs
Michael Hreczny
Kenilworth High School
Teacher David Novak
Amanda Acuirre
Kenilworth High School
Teacher David Novak
Abram Manalastas
P.S. #39, Jersey City
Teacher Patricia Clarritt
Kahn Jordan
P.S. #22, Jersey City
Teacher Ziniel Hassad
Luz Tirado
P.S. #22, Jersey City
Teacher Ziniel Hassad
Tara Hibbett
Oxford Central
Teacher Mrs. Szemborski
Michelle Ramjug
P.S. #6, Room 315
Teacher Ms. Cipriano
Anthony Diaz
P.S. #6, Room 313
Teacher Mrs. Conlon

NORTH JERSEY AWARDS DINNER



The ACS fifty year members in attendance at the Spring Awards Dinner at Fairleigh Dickinson University.



NJACS Burton C. Belden Distinguished Service Award 2004: (left to right) Anne Kelly; C.K. Chan (husband of Maureen); Maureen Chan, award winner, and Fred Dammont.

The ACS Chemistry Olympiad winners from the North Jersey Section with their coaches (David Ostfeld from Bergen Academy, left, and Paul Kimmel from East Brunswick High School, second from left) at the Spring Awards Dinner at Fairleigh Dickinson University.



NORTH JERSEY REGIONAL SCIENCE FAIR

Award List

American Chemical Society Award, First Place

Samantha Dolph
"Kinetic Study of the Chromium EDTA
Reaction"
6 Farmstead Road
North Caldwell, NJ 07006

Rebecca Rothkopf
"Kinetic Study of the Chromium EDTA
Reaction"
49 Hamilton Drive East
North Caldwell, NJ 07006

Golnar Gnods
"Kinetic Study of the Chromium EDTA
Reaction"
85 Mountain Avenue
North Caldwell, NJ 07006

American Chemical Society Award, Second Place

Jacob Nathan Sanders
"Combinatorial Synthesis of Anti-bacterial
Hydrazone Compounds"
128 Tenney Avenue
River Edge, NJ 07661

American Chemical Society Award, Third Place

Natalia Hlushko
"Dimethyl Sulfoxide (DMSO) as an
Antibody Solubilizing Agent"
450 Wylie Street
Avenel, NJ 07001

NORTH JERSEY SECTION MEMBER NEEDS SURVEY FOR CAREER SUPPORT

The North Jersey Section of the American Chemical Society is collaborating with the Professional Programs subcommittee under the umbrella of the National ACS Committee on Economic & Professional Affairs (CEPA) with the goal of assessing member needs for new programs to be developed for career planning, development, management, and transitions. Thereby, better preparing ACS members for the dynamic and ever changing economic climate. Your assistance in completing this questionnaire to guide the development of new programs that could benefit a large number of ACS members would be greatly appreciated. The survey, taking about 10 minutes, is located at our NJACS web site, www.njacs.org/survey.html. If you don't have web service, they can be found at your local library.



NORTH JERSEY CHEMISTRY OLYMPIAD

The National Chemistry Olympiad has two main purposes: to promote chemistry at the high school level and field a four member team which represented the USA at the International Chemistry Olympiad in Kiel, Germany in July. To this end, the North Jersey Section administered a local exam to over 110 promising chemistry students. From this number five students, pictured below, qualified and took a 2nd level group

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John Arnett, Ph.D., Director of Operations



of tests. The following students participated at this level:

Student	Teacher/ High School
Amit Sharma	Mr. H. Goldberg Highland Park
Harrison Hsu	Dr. P. Kimmel East Brunswick
Jacob Sanders	Dr. D. Ostfeld Bergen County Academy
Fan Zhang	Dr. D. Ostfeld Bergen County Academy
Aaron Potechin	Mr. N. Gargiulo Milburn

Of the 801 students who took the 2nd level tests nationally, three of the above earned either Honors (top 150) or High Honors (top 50), while two others were Outstanding and had rankings in the top 20.

We are proud to announce that Fan Zhang went to the study camp at Colorado Springs, and was chosen to be a member of the team which represented the USA at the International Chemistry Olympiad July 18-27, 2004. Fan will be with us again next year, since he is only a junior in high school.

Among his many honors, he was a qualifier in both Physics and Math bowls, was a 1st place winner in the State Science Day competition, North Jersey Regional Science Fair, and the Science League (Chemistry II). The North Jersey Section is indeed proud of his accomplishments.



North Jersey Section's five National Chemistry Olympiad semi finalists. From left to right: Amit Sharma, Fan Zhang, Jacob Sanders, Harrison Hsu, Aaron Potechin. Fan Zhang was chosen to join the team which represented the USA at the International Chemistry Olympiad in Kiel, Germany, on July 18-27, 2004.



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New York Meetings

www.newyorkacs.org

CHEMICAL MARKETING & ECONOMICS GROUP (CM&E)

Opportunities and Challenges in the Small Molecule Business: A Global Perspective

Speaker: Dr. Thomas E. D'Ambra
Founder, Chairman, & CEO
Albany Molecular Research, Inc.
Albany, NY

Dr. Thomas D'Ambra is Founder, Chairman of the Board of Directors, President and CEO of Albany Molecular Research, Inc. After a seven year tenure at Sterling Drug, he co-founded Coromed in 1989: a clinical research organization where he established the chemistry and biology departments and served as Vice President, chemistry. In 1991, D' Ambra co-founded Albany Molecular Research, where he has been involved, and taken an active role, in all

aspects of the business, from bench research scientist to business development and strategic management. He received a bachelor's degree in chemistry from the College of the Holy Cross and a doctorate in organic chemistry from the Massachusetts Institute of Technology. He has authored numerous publications and is inventor on over 30 U.S. patents.

Date: Thursday, September 9, 2004

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

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

Fees: \$35 discount price for Members who reserve **by Tuesday, September 7** (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 (via PayPal), go to the CM&E Website: <http://home.nyc.rr.com/chemmarkecon/>



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**BIOCHEMICAL TOPICAL GROUP
— JOINT MEETING WITH THE
NYAS BIOCHEMICAL PHARMA-
COLOGY DISCUSSION GROUP**

**Identifying Potential Therapeutic
Indications of Kinase Targets Using
Genetically Engineered Mice and Cells**

Organizers: Huiping Jiang
Boehringer Ingelheim
Pharmaceuticals

John E. Hambor
Pfizer Global Research and
Development

Kinases have been demonstrated to exhibit altered expression and activity in many diseases. Inhibition of major kinases has shown to have great effects on cellular processes such as inflammation, angiogenesis and proliferation. Genetically modified mice and cells have proven to be useful tools for identifying and validating potential drug targets. This symposium will focus on using genetically modified mice and cells to identify and validate potential druggable kinases.

**“IkB Kinases in Inflammation and
Cancer”**

Michael Karin
University of California, San Diego

**“Genetic and Environmental Control of
Cardiovascular Diseases”**

Josef Penninger
Institute of Molecular Biotechnology of the
Austrian Academy of Sciences

**“MAP Kinases in the Heart: Good, Bad
and Ugly”**

Yibin Wang
University of California, Los Angeles

**“Comprehensive Phenotyping of
Genetically Modified Mice to Identify
New Target Disease Indications”**

Rosalba Sacca
Pfizer Global Research and Development

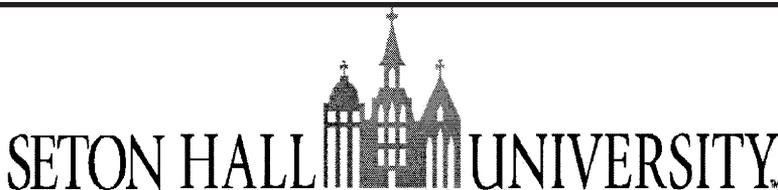
**“Analog-Sensitive Kinase Allele (ASKA)
Technology: Unique Cell-Based and In
Vivo Models for Kinase Drug Discovery”**

Mark Velleca
Cellular Genomics Inc.

Date: Tuesday, September 28, 2004

(continued on page 22)

Education



1 8 5 6

Department of Chemistry and Biochemistry

Fall 2004 - Graduate Courses, leading to the MS and PhD degrees

September 8 - December 10, 2004

Registration: September 2, 2004, 10 am - 12 pm and 3 pm - 6 pm

All courses and programs are offered on a full or part time basis. Classes meet during the evening or on weekends to accommodate busy working professionals.

Course Number	Title	Day	Time
CHEM 6212 NA	Statistics & Applied Analy. Chem.	Tues./Thurs.	7:00-8:25
CHEM 6301 NA	Theoretical Organic Chemistry I	Tues.	7:00-10:00
CHEM 6501 NA	General Biochemistry I	Sat.	9:00-12:00
CHEM 6601 NA	Advanced Inorganic Chemistry	Mon./Wed.	7:10-8:25
CHEM 7499 NA	Special Topics in Physical Chem.	Wed.	6:00-9:00

For more information, please visit the Department of Chemistry and Biochemistry website at <http://artsci.shu.edu/chemistry/>, call us at 973-761-9414, or email chemistry@shu.edu

BIOCHEMICAL TOPICAL GROUP

(continued from page 21)

Time: 1:00 – 5:00 PM
Place: New York Academy of Sciences
2 East 63rd Street
New York, New York

Space is limited. To reserve a seat, go to the calendar at www.nyas.org and fill out the online reservation form, e-mail BPDG@nyas.org or call 212/ 838.0230 x322.

NYAS Members and BPDG Affiliates may attend BPDG meetings free of charge. Non-members may attend for a fee of \$20 per event. To become a Member of the Academy, visit

<http://www.nyas.org/landing.html>



LONG ISLAND SUBSECTION

Using Stereochemistry to Engineer
Selectivity and High Contrast in Optical
Probes for Metal Ions

Speaker: Dr. James Canary
New York University

Building Fluorescent probes for metal ions can be used to map metal ion concentrations or study cellular signaling mechanisms. Much recent interest has been drawn to measurement of zinc and copper ion concentrations because of the importance of these metal ions in Alzheimers Disease, Prion Disease, and related disorders. Recently we have studied a class of receptors that utilize stereochemistry to maximize selectivity for zinc ion. Vast differences in Zn/Cu selectivity were observed for ligands that differ only in the configuration of a single stereocenter. Metal ion binding was quantified by Fluorescence-Detected Circular Dichroism, in a novel application of this technique, giving a much lower background signal than available by more classical fluorescence measurements.

Date: Thursday, October 7, 2004

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

Place: Hofstra University, Lister Auditorium
California Avenue, New Chemistry

Education

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FALL EVENING GRADUATE COURSES

in Chemistry and Chemical Biology

Classes begin August 30, 2004 — 6:15-9:00 PM

- Ch 561 Instrumental Analysis Laboratory (*Wed.*)
- Ch 583 Physiology (*Thurs.*)
- Ch 640 Advanced Organic & Heterocyclic Chemistry (*Mon.*)
- Ch 642 Synthetic Organic Chemistry (*Thurs.*)
- Ch 650 Spectra & Structure Determination (*Tues.*)
- Ch 664 Computer Methods in Chemistry (*Fri.*)
- Ch 666 Modern Mass Spectrometry (*Thurs.*)
- Ch 670 Synthetic Polymer Chemistry (*Tues.*)
- Ch 681 Biochemistry II (*Wed.*)
- Ch 687 Molecular Genetics (*Tues.*)

Application: Office of Graduate Studies (201) 216-5234

Information: Dept. of Chemistry & Chem. Biology (201) 216-5528

HUDSON-BERGEN CHEMICAL SOCIETY

At the March 19, 2004 meeting of the Hudson-Bergen Chemical Society, Dr. Ariel Fenster spoke on "The Science and History of Money: Real or Counterfeit?"



(Left to right) Micky Felix; Dr. Rob Mentore, Ramapo College of NJ; Dr. Ariel Fenster, speaker, McGill University; Dr. Mihaela Leonida, FDU; Dr. Arthur Felix, Ramapo College of NJ.

Carol Sutherland, teacher, and Dr. Ariel Fenster examining bills with UV to see any counterfeit bills.

(Photos courtesy of Dr. Grace B. Borowitz, gborowitz@optonline.net)



2004 WILLIAM H. NICHOLS AWARDEE



(Left to right) C. Wally Nichols; Prof. Allen J. Bard, Nichols Medalist; Prof. Vijaya Korlipara, President; Charles P. Casey, President of the ACS, at the Nichols Symposium on April 16, 2004.

(Photo courtesy of Dr. Grace B. Borowitz)

2005 WILLIAM H. NICHOLS MEDALIST

The Nichols Medal Jury is pleased to announce that **Professor Richard N. Zare** of Stanford University has been chosen to receive the William H. Nichols Medal Award for 2005.

The Nichols Distinguished Symposium and Medal Award Dinner will be held on Friday, April 1 2005 at the Crowne Plaza Hotel, White Plains, NY. The title of the Symposium is "Shining a Light on Chemical Processes." The program for the Symposium will appear on the New York Section website (<http://www.NewYorkACS.org>) and in the January, February and March issues of *The Indicator*. A brochure describing the events will be sent to all New York Section members in January. Please reserve this date.

Congratulations to Professor Zare!

NEW YORK SECTION BOARD OF DIRECTORS MEETINGS FOR 2005

**February 11
March 12
June 10**

**September 16
November 11**

The above board meetings are open meetings. If you are not a member of the New York Section Board of Directors but would like to attend, please contact the New York Section office at 516-883-7510 or at njesper1@optionline.net. All are welcome.

The Sectionwide Conference will be held on January 22, 2005 and the Williams H. Nichols Distinguished Symposium and Medal Award Dinner on April 1, 2005.

Information regarding the time and place of the meetings will be posted also on the New York Section website at <http://www.NewYorkACS.org>

Education

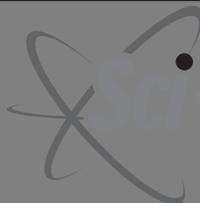
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Call for Nominations

2005 BAEKELAND AWARD

The North Jersey Section of the American Chemical Society is soliciting nominations for the 2005 Leo Hendrik Baekeland Award. The award is sponsored by Union Carbide Corporation and consists of a gold medal and a \$5,000 honorarium. The Section presents the award biannually to commemorate the technical and industrial achievements of Leo Hendrik Baekeland and to encourage younger chemists to emulate his example. The Award is given in recognition of accomplishments in pure or industrial chemistry to an American chemist who will be under the age of 40 as of January 1, 2005.

Nominations for the Award should include a letter describing the nominee's achievements, a brief biography, and a list of the nominee's more important publications. Renominations are encouraged, provided the age requirement is still met. Please submit materials **by December 31, 2004**, to Robert Goodnow, Jr., Baekeland Award Committee, of Hoffmann-La Roche Inc., Bldg. 123, 340 Kingsland Street, Nutley, NJ 07710-1199.

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*Speaker: Mr. Ned Webber
Nurture Institute*

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Ned Webber is Vice President of Sales for the Nurture Institute and also serves as the Vice President of Sales for DEMA Education, where he focuses on developing one-to-one relationships with DEMA clients. Ned has over twenty years of experience in sales and customer service, and prior to joining DEMA spent the last twelve years working in the healthcare field.

He has also been an instructor at Rutgers University where he still occasionally guest lectures and has taught numerous continuing education classes around the country.

Date: Tuesday, September 28, 2004

Times: Networking 6:00 PM
Dinner 6:30 PM
Presentation 7:30 PM

Place: Sheffield's Restaurant
1050 Route 22 West
Mountainside, NJ

Registration: \$50

To Reserve: Call Linda B. Townsend at (973) 729-6671 or e-mail: accce@chemconsult.org

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

Seminar Series - Fall 2004

Time: 11:30 AM

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

September 8

"Green Chemistry"

Mr. Ron DiCola

Assistant Director, Corporate Environmental Affairs, Pfizer Inc.

September 14

Mr. Bruce Slutsky

"Searching for Chemical Information Using Library Facilities"

NJIT Technical Reference Librarian
NJIT, Newark, NJ

September 21

"One-Dimensional Nanostructures go to Solid Substrates for Nanoelectronics and Ultrasensitive Sensors"

Dr. Huixin He

Dept. of Chemistry, Rutgers University,
Newark, NJ

September 29

"Chemistry and Kinetics of Alkoxy Radicals in the Atmosphere"

Dr. Theodore S. Dibble

Dept. of Chemistry
State University of New York -
Environmental Science & Forestry

Seminar Series Coordinators:

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

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

NEW JERSEY INSTITUTE OF TECHNOLOGY

Dept. of Chemical Engineering

Seminar Series - Fall 2004

Sponsors: Bradley Pharmaceuticals Inc. - ConocoPhillips Bayway Refinery - Exxon Mobil Corporation - Formosa Plastics Corporation, USA - Infineum USA L.P. - Merck & Co., Inc. - National Starch and Chemical Foundation, Inc.

September 20

GITC Room 3740

"Flash Nano-Precipitation of Pharmaceuticals via Impinging Jet Precipitation and Block Copolymer Stabilization"

Dr. Brian Johnson

Merck & Co., Inc., Rahway, NJ

September 27

"Electrochemical Detection of Biological Agents"

Dr. Kalle Levon

Professor of Chemical Engineering and Associate Dean of Research & Intellectual Property
Polytechnic University, Brooklyn, NY

Times: Refreshments – 2:30 PM

Place: Room 3710

William S. Guttenberg Information Technologies Center
New Jersey Institute of Technology
Newark, NJ

Times: Seminars 2:45 PM

Place: Room 3710

William S. Guttenberg Information Technologies Center [except as noted]

Seminar Series Coordinator: Professor Gordon Lewandowski, (973) 596-3573,
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MONTCLAIR STATE UNIVERSITY

Chemistry Department Donates Laboratory Equipment to Haiti's First University in the Mountains

Montclair State University and Partners in Progress, a Pennsylvania based non-profit organization, have joined forces to provide basic laboratory equipment for the University of Fondwa, Haiti.

The University of Fondwa 2004 (UNIF) opened in rural Haiti in January 2004. UNIF, Haiti's first "University in the Mountains," will provide an opportunity for young men and women from Haiti's 565 rural communities to study agronomy, veterinary science and management. Possibilities for higher educational opportunities are scarce in Haiti and nonexistent in most rural areas.

The program is under fiscal sponsorship of the U.S. based non-profit organization Partners in Progress (PIP). PIP, based in Western Pennsylvania, promotes and advances sustainable rural development in Haiti through grant transfers, educational outreach to groups in the United States and by sponsoring educational tourism delegations to Haiti.

The Department of Chemistry and Biochemistry at Montclair State University in New Jersey is donating much needed basic science laboratory equipment. Faculty and students at Montclair packed over six pallets of chemistry instruments, glassware, books and audiovisual aids for the UNIF project. PIP will ship the items to Haiti for the start of the September 2004 school year.

The University of Fondwa was conceived by members of the Peasants Association of Fondwa (APF) in collaboration with the international community. Representatives from the United States, France and Cuba are assisting the Haitian staff in curriculum development, administration and fund raising. The

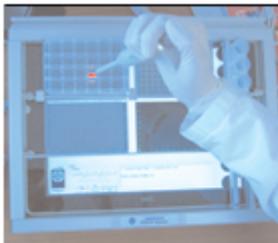
University began classes in January with 20 students enrolled in the faculties of business management and agriculture. In September 2004, with the expected completion of basic chemistry and biology labs, the University will expand its offerings to include veterinary medicine.

Corporations or schools willing to contribute to this unique educational program should contact Dr. Richard A. Gosser, Partners in Progress, 329 N. Fairfield Street, Ligonier, PA 15658 (rgosser@PIPHaiti.org). Information about Partners in Progress, APF, and UNIF is available at www.PIPHaiti.org.

Haiti, the most economically impoverished country in the Western Hemisphere, has had a troubling year with political turmoil resulting in the displacement of former President Jean Bertrand Aristide. In addition to the worsening economic situation, the long standing and severe deforestation in the rural areas has resulted in an environmental crisis in many parts of Haiti.

Fondwa, a two hour drive from the capital city Port au Prince, is a small rural community in the West Department of Haiti. The Fondwa peasants have worked together for 15 years to improve the quality of life for their community. The APF elementary school enrolls more than 600 children and the APF medical clinic provides health care services at nominal cost to anyone seeking treatment. APF has also undertaken a number of economic and social programs with notable success. These include reforestation projects and educational seminars on agro-forestry and animal husbandry. Thus far, these programs have been limited to the local community. The University of Fondwa is the next step in expanding and extending the Fondwa Model of sustainable rural development.

The January inauguration of the University of Fondwa coincided with the bicentennial celebration commemorating Haiti as the first Independent Black Republic in the world.



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Host: Y. Zhang *A Nonempirical Density Functional Straddling the Paradigm Densities of Quantum Chemistry and Condensed Matter Physics*
- September 24** **Hiroake Suga**, University of Tokyo and University of Buffalo
H: Kirshenbaum *Artificial Ribozymes: The Evolutionary Origin of Biological Catalysts and Application to Biotechnology*
- October 1** **Mark A. Johnson**, Yale University
H: Tuckerman *Water Clusters: A Molecular Perspective of Aqueous Chemistry*
- October 8** **Al Meyers**, Colorado State University
Host: Canary *Chiral Oxazolines-Their Legacy in Asymmetric Synthesis*
- October 15** **Hongkun Park**, Harvard University
Host: A. Kent *Transport and Scanned Probe Investigations of Chemical Nanostructures*
Joint Seminar with Physics
- October 22** **Trevor Douglas**, Montana State University
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- October 29** **Dan Minor**, University of California at San Francisco.
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Co-host: Holmes Joint Seminar with Biology
- November 5** **Linda C. Hsieh-Wilson**, California Institute of Technology
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- November 12** **Dennis P. Curran**, University of Pittsburgh
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- December 3** **Ada Yonath**, Weizmann Institute
Host: Schlick *The Amazing Ribosomal Architecture: Peptide Bond Formation and Antibiotics Synergism*

Seminars will be held on Fridays at 3:30 p.m. in room 1003 Silver Center. Reception to follow.

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