CIRCULATION: 8,500

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

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April February 16
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November September 15

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Address advertising correspondence to Advertising Manager. Other correspondence to the Editor.
### October Historical Events in Chemistry

**by Leopold May**

**The Catholic University of America, Washington, DC**

**October 1, 1867**

Wilder D. Bancroft, a researcher in electrochemistry; was the founder and Editor of the Journal of Physical Chemistry and served as Editor from 1896 to 1932 as well as President of ACS in 1910. He made the first systematic study of oxidation cells.

**October 2, 1907**

One hundred years ago, Alexander R. Todd was born. He did research in the chemistry of nucleotides and coenzymes and received the Nobel Prize in Chemistry in 1957 for synthesizing nucleic acids.

**October 5, 1861**

The Chemical Society of Union College, the precursor of the American Chemical Society, was founded on this day.

**October 6, 1807**

Two hundred years ago, Humphry Davy at the Royal Institution isolated potassium.

**October 8, 1883**

Otto H. Warburg, a researcher on respiration and cancer, was born on this date. In 1931, he was awarded the Nobel Prize in Physiology and Medicine for his discovery of the nature and mode of action of the respiratory enzyme.

**October 9, 1852**

Emil H. Fischer was born on this day. He synthesized sugars, caffeine, uric acid, and many other chemicals for which he received the Nobel Prize in 1902 in recognition of the extraordinary services he has rendered by his work on sugar and purine syntheses. He introduced projection formulas for spatial arrangements of group around chiral carbon atoms, which are known as Fischer projections.

**October 12, 1865**

Vladimir A. Kistiakowsky, who was born on this date, was a researcher in electrochemistry and thermodynamics.

**October 14, 1898**

John M. Gulland, who did research on DNA, was born on this date. He also used electrometric titration to prove existence of hydrogen bonds and studied the titration of phosphoric acid.

**October 16, 1875**

Henry C. Sherman, who was born on this date, was a researcher on vitamins.

**October 18, 1912**

Hercules was incorporated on this day.

**October 21, 1803**

John Dalton presented the first experimental evidence for atoms on this date before the Manchester Literary & Philosophical Society.

**October 23, Any Year**

Mole Day, 6.02 a.m. through 6.02 p.m. (Mole time); Mole Moment: 50.453 s after 6.42 p.m.

**October 24, 1877**

Roger Clark Wells did research on sodium compounds and chemical analyses of radioactive minerals. He served as the Chief Chemist of U.S. Geological Survey and was born on this day.

**October 25, 1891**

Carl Djerassi, a researcher in structure elucidation of natural products, was born on this date. He synthesized medicinals, and applied computer artificial intelligence to chemical problems. In addition, he writes novels and plays.

**October 30, 1906**

Max Tishler was an industrial chemist who developed antibiotics, including actinomycin and streptomycin and synthesized vitamin A and riboflavin.
Michael Faraday has always been one of my scientific heroes. He was essentially self-educated, and born and raised in humble circumstances. By force of character and intellect he became a leader among chemists and physicists. His life is an exemplary one, and well worth recounting.

The Faraday family moved to London when Michael was only 5, and when he was still in his teens his father died. His early education was fragmentary; “consisting of little more than the rudiments of reading, writing, and arithmetic at a common day school” to quote the man himself. At the age of 13 he became an errand boy in the bookshop of a bookseller and stationer, and at 14 became an apprentice in the same shop. “Whilst an apprentice I loved to read the scientific books which were under my hands, and among them delighted in [Mrs.] Marcet’s Conversations in Chemistry and the electrical treatises in the Encyclopædia Britannica. I made such simple experiments in chemistry as could be deferred in their expense by a few pence per week, and also constructed an electrical machine...” We see here the themes of chemistry and electricity which were to become the center of Faraday’s scientific work.

In his time Faraday was a model scientific work, but he had well earned his retirement. He died on August 25, 1867. Let me end with a quotation from J. R. Partington, the eminent historian of chemistry. “In his time Faraday was a model scientific work, but he had well earned his retirement. He died on August 25, 1867. Let me end with a

**New York Meetings**

**www.newyorkacs.org**

**CHEMICAL MARKETING & ECONOMICS GROUP**

Carbon Trading

Speaker: Jason Patrick

Director Greenhouse Gas Emissions Markets Group

Evolution Markets, LLC

White Plains, NY

Date: Thursday, October 4, 2007

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

Place: The Chemists’ Club

40 West 45th Street

New York, NY

Cost: $40 discount price for Members who reserve by Tuesday, October 2, 2007 (12 noon). $35 for Guests and Members (at the door without reservations)

To reserve: Please reserve early to be eligible for discount price. Call Vista Marketing at (917) 684-1659 or via e-mail to: cmegroup@yahoo.com. You can also pay online (via PayPal): go to our Website: http://www.nyacs-cme.org/

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**WESTCHESTER CHEMICAL SOCIETY**

Fingerprinting Molecules by Proton NMR Spectroscopy

Speaker: Professor Abhijit Mitra

Department of Chemistry and Biochemistry

College of Mount Saint Vincent

Riverdale, NY

Understanding π-π stacking plays an important role in determining the properties and behaviors of biomolecules and their interaction with drugs and proteins. We have recently shown that π-π stacking interaction can be studied by hitherto unknown concentration dependent chemical shift changes, for a wide variety of heteroaromatic compounds, in 1H-NMR spectroscopy. Our initial findings were observed in quinoline, a common moiety in pharmaceuticals and biomolecules. Thus π-π stacking involving quinoline molecules is an important phenomenon. Investigation of the π-π stacking in quinoline dimers, initially based on experimental observations from 1H-NMR, has been extended to ab initio calculations of quinoline dimer stabilization energies and X-ray crystal structure studies.

Abhijit Mitra was born in Calcutta, India, where he received his B.Sc. in Chemistry with Honors in 1967 and his M.Sc. in Chemistry in 1970 from the University of Calcutta. He then did his graduate studies under the guidance of Prof. Gilbert Stork at Columbia University working on the total synthesis of prostaglandin A2, leading to the Ph.D. degree in 1977. After a short postdoctoral research with Prof. William Clark Still Jr. at Columbia, during which time he discovered the, now popular, flash column chromatography, he went to Harvard University where he worked with Prof. Yoshiho Kishi. There he developed reaction methods for the control of stereochemistry in acyclic molecules and then worked on the total synthesis of ionomycin. He then joined Rohm & Haas as a Senior Research Chemist in 1980. Dr. Mitra’s love for research and teaching brought him to College of Mount Saint Vincent in 1988, where is today. His current research includes synthesis of biologically active molecules, molecular modeling and ab initio calculations and NMR spectroscopy.

Date: Thursday, October 4, 2007

Times: Refreshments 5:30 PM Lecture 6:15 PM

Place: Polytechnic University

Westchester Graduate Center

40 Saw Mill River Road

Hawthorne, NY

Directions at http://www.poly.edu/west/
The prevalence of obesity in the United States has lead to a significant increase in the complications associated with metabolic syndrome, including diabetes. While many therapeutic approaches target appetite to address this problem, an increasing body of evidence indicates that inflammation mediators in the problems of metabolic syndrome. These approaches will ultimately need to improve to combat this medical need.

**Program**

**Cytokine Action in Insulin Resistance:**

*The Role of SOCS Proteins*

Alexander S. Banks

Columbia University, New York, NY

**Accumulation in Adipose Tissue**

Anthony W. Ferrante

Columbia University, New York, NY

**Oxidant-Induced Protein Modifications in Diabetes and Metabolic Syndrome**

Richard A. Cohen

Boston University School of Medicine, Boston, MA

**Inflammatory Markers and the Metabolic Syndrome**

Michael J. Quon

National Institutes of Health, Bethesda, MD

**Role of Chemokines in Macrophage Accumulation in Adipose Tissue**

Judith L. Treadway

Pfizer Inc.

The prevelance of obesity in the United States has lead to a significant increase in the complications associated with metabolic syndrome, including diabetes. While many therapeutic approaches target appetite to address this problem, an increasing body of data has demonstrated the many of these complications can be linked to a deregulation of the body's immune system associated with this syndrome. In this symposium, we will investigate the role of the inflammatory mediators in the problems of metabolic syndrome. These approaches will ultimately need to improve to combat this medical need.

**National Chemistry Week**

Theme: The Many Faces of Chemistry

The New York Section celebration of National Chemistry Day will be on Saturday, October 27 in the Great Hall of the New York Hall of Science.

Last year we had over 700 attendees. We need you to top this number this year.

High School Teachers: Have your students do a presentation at a local elementary school, library, mall, etc. Video tape the presentation and submit the tape or DVD by October 19th. Winners will be announced for each subsection. Monetary prizes will be awarded. On October 27, the students would be able to perform their experiments at the Hall of Science.

Elementary/Junior High School Teachers: Have your students do a poster or an illustrated Haiku based on the theme: "The Many Faces of Chemistry". A Haiku is a three-line poem with five syllables in the first line, seven in the second, and five in the third. They do not have to rhyme and should be submitted and illustrated on an unlined 8.5" x 11" sheet of paper. Each school may send in 3 posters and/or Haiku. The student's name, school, address, phone number and teacher name should be included on all items. Winners will be announced for each New York subsection. Monetary prizes will be awarded. We will use the posters and Haiku entries to line the main hall of the Hall of Science. Entries should be received by October 19.

All participants and volunteers will not have to pay admission to the Hall or a Parking Fee. All entries should be sent to: Joan Laredo-Liddell, 101 Palmer Road, Yorksers, NY 10701-5235.

Date: Saturday, October 27, 2007

Time: 10 AM - 4 PM

Place: Great Hall

New York Hall of Science
SCENES FROM THE NEW YORK SECTION

Honored College Chemistry students with their instructors at the Westchester Chemical Society May meeting at Pace-Pleasantville.

Members of the High School Teachers Topical Group who presented at “Demo Derby,” at the group’s May meeting held at NYU.

Jean Delliner, Westchester co-chair; Carol Sencen, who received A Salute to Excellence; Dr. Mary Cowman, Poly-technic University, 2007 Distinguished Scientist Award; Dr. Rolande Hodel, A Salute to Excellence; and Joan Laredo-Liddell, Westchester co-chair, taken at May meeting of the Westchester Chemical Society at Pace-Pleasantville.

The New York Section hosted a luncheon for the 50 and 60 year members and their guests at Tavern on the Green in Central Park.

On June 4, 2007, the LIACS held its 18th Annual Outstanding Scholastic Achievement in high school chemistry Awards Dinner. It is one of our ways of reaching out and encouraging the high school students in chemistry. The dining room was set up that at least one member of LIACS was at each of the tables where the students were seated. This brought about a dialogue with the professionals, students and parents. The event was sponsored by OSI Pharmaceuticals.

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E-Mail micronanalytical@compserv.com Web Page: www.micronanalytical.com
TEACHER AFFILIATES
Executive Committee Meeting
Date: Monday, October 15, 2007
Time: 4:30 PM
Place: Chatham High School
255 Lafayette Avenue
Chatham, NJ
Contact: Diane Krone at 201-385-4810 or kroled@optonline.net

NORTH JERSEY CHROMATOGRAPHY GROUP
Sponsored by CPSA
Influencing Scientific Decision-Making in Drug Discovery & Development via Integrated Analytical Sciences and Strategies
Metabolomics and Metabonomics session
Session chair: Dr. István Pelczer
Princeton University
Spectroscopic Approaches in Biomarker Discovery and Molecular Systems Biology
Jeremy Nicholson
Imperial College
Integrated Metabonomic Studies
Nelly Aranibar
Bristol-Myers Squibb
Probing Dynamic Nuclear Polarisation Enhancement in NMR for Biological Applications
Ulrich Gunther
University of Birmingham
Date: Tuesday, October 23, 2007
Times: Metabolomics and Metabonomics Session 4:45 PM
Sponsor Hospitality - Evening Workshops 6:00 PM - 8:00 PM
Place: Sheraton Bucks County Hotel
Langhorne, PA
Cost: Free, but registration is required

NMR TOPICAL GROUP
Bruker Night!
Sponsored by: Bruker BioSpin
New Tools for NMR-based Metabolic Screening and Fingerprinting
Speaker: Dr. Manfred Spraul
Director of NMR Applications and Worldwide Coordinator
Hyphenation
Bruker BioSpin GmbH
Rheinstetten, Germany
NMR for long being seen as a tool to solve chemical structures now rapidly moves into mixture analysis, driven by Metabonomics and Food Quality Control applications. High throughput screening is needed to fulfill the stringent requirements of statistical data evaluation. Quantification of compounds in a mixture is the other task, which has to be preceded by safe identification, which especially in aqueous solution is not straightforward. Linking NMR results to mass spectral screening allows to further enhancement of the information available, using statistical covariance analysis. Hardware and analysis tools needed are described and several applications are shown.
Dr. Spraul holds a Ph.D. in Chemical Engineering and a Master’s Degree in Chemistry from the Technical University Karlsruhe, Germany. Prior to joining Bruker BioSpin GmbH in Germany in 1984 he was in control of the analytical laboratory of the institute of Petrochemistry during his Ph.D., covering NMR, LC-MS, GC-MS and IR. At Bruker BioSpin he started as application chemist for NMR. Since 1987 he was manager of the NMR application group. Since 2002 he is director of NMR applications and responsible for NMR hyphenation on a worldwide basis. Main fields of work are Metabonomics, general mixture analysis, intelligent NMR-automation, databases and structure elucidation. He holds 10 patents in the NMR field and has about 80 publications in various NMR-applications and NMR hyphenation.

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Organic Topical Group
(continued from page 13)

Dr. Binh Vu
Discovery Chemistry, 123/3
Hoffmann-La Roche, Inc.
340 Kingsland Street
Nutley, NJ 07110
E-mail: binh_1_vu@roche.com

We Are Going Back To The LSC

National Chemistry Week
The Liberty Science Center has re-opened and you probably have heard about all the new demos. Why don’t you join us on Saturday, October 27, as the North Jersey Section celebrates National Chemistry Week? After sharing some of your knowledge of chemistry/science by overseeing a hands-on activity, you can tour the Center and take-in the new demos. It will be a fun day for you and your family!

The theme for this year is “The Many Faces of Chemistry”. This gives you great latitude as you plan your hands-on activities. It would be appreciated if you could get a diverse group of people to join you at your table. Your activities should be geared for 8 to 12 year olds. As usual our first priority is safety. Preferably presenters should be able to redo these experiments at home and at school so it would be very helpful if you had handout instructions to distribute.

If you are out of ideas for safe activities for a table, you can look at the NCW page at the ACS website. To minimize duplication of the demos, you can tour the Center and take-in the new ones.

In addition to a table, I also need:

- Form 1. Count me in.
- Form 2. My complete address is: __________________________
- Form 3. I will be joined at my table by the following volunteers.

Please send your full contact information along with a check made payable to NJACS Polymer Group to Dr. Willis B. Hammond, Treasurer, NJACS-PTG, 128 Center Ave., Chatham, NJ 07928. Directions: Can be found at http://maps.rutgers.edu/pdf/busch.pdf. Building G3 on map.

Poster Submission: Please send title, abstract and contact information to Jin Zhang (jin.Zhang@bms.com). If you are from academia, large corporations or local businesses, this is a good opportunity for you to showcase your research network with other people and contact possible employers and clients. In addition to topics on green polymers, we are looking for poster submissions in polymer research in diverse areas, such as polymers in health care, advanced polymer materials, polymer characterization, etc.

Please note abstracts will be 400 words or less. No tables and graphics. The size of the abstract should be 400 words or less. No tables and graphics. The size of the abstract should be 400 words or less. No tables and graphics. The size of the abstract should be 400 words or less. No tables and graphics. The size of the abstract should be 400 words or less.

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: Saturday, Oct. 27, 10:00am-1:00pm
1:00pm-4:00pm, 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. My company would like to support these efforts.
The following companies/individuals are willing to help defray the costs of these events:

- ExxonMobil
- BASF

Form 3. I will be joined at my table by the following volunteers.

<table>
<thead>
<tr>
<th>Complete Name</th>
<th>Institution</th>
<th>Address (snail mail)</th>
<th>Activity</th>
<th>Time Volunteering</th>
</tr>
</thead>
<tbody>
<tr>
<td>__________________________</td>
<td>__________________________</td>
<td>__________________________</td>
<td>__________________________</td>
<td>__________________________</td>
</tr>
</tbody>
</table>

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

Valerie J. Kuck, 45 Warfield St., Upper Montclair, NJ 07043, vkuck@yahoo.com

ChemTAG
Celebrate National Chemistry Week
Bring your students to present at The Many Faces of Chemistry.

Date: Saturday, October 27, 2007
Times: 10:00 AM – 3:00 PM
Place: NEWLY-REOPENED Liberty Science Center.
222 Jersey City Boulevard
Jersey City, NJ

Contact: Bobbi Goman at rosellerams@yahoo.com

Polymer Topical Group — Cosponsored By The ACS Division Of Polymer Chemistry
To Green Polymers: Materials, Processes and Products
Organized by: NJACS Polymer Topical Group

Program
Session I: Green Polymers: Materials and Processes
Michael Jaffe, presiding

The Future of Polymers and the Environment: Opportunities at the Molecular Level
John C. Warner
U. Mass., Lowell

Synthetic Absorbable Polymers
Dennis Jamiolkowski
NJU

The Preparation and Application of Highly Modified Starches
John S. Thomaidis, ICI
L. Cimiecioglu, ICI
K. Rodriguez, Alco, and M. Crossman, Alco

Polylefins - They’re Greener than You Think
D. J. Lohse
D. N. Schulz
ExxonMobil

Session II: Green Polymers: Product Application Approaches
Ron DeMartino, presiding

Polymers in High Performance Construction Materials
Charnene Wall
BASF

Polymers for Printing Inks: A Green History
Richard Durand
Sun

Green Polymers in Cosmetics
Karl Krummel
LOV

Poster Session
Jin Zhang and Jinjiang Li
co-organizers and presiding

Mixer
Date: Thursday, November 8, 2007
Times: 1:00 PM – 6:00 PM
Place: Rutgers University
Busch Campus
Fiber Optics Materials Research Auditorium
Piscataway, NJ

Cost: Registration: ACS Member $30
Non-member $40
Student $20.
After October 24:
Registration: ACS Member $35
Non-member $45
Student $25.

Website: More information and a downloadable registration form can be found at http://njacspolymers.org/.

Registration: By mail using the registration form below. Advance fee is required. Please send your full contact information along with a check made payable to NJACS Polymer Group to Dr. Willis B. Hammond, Treasurer, NJACS-PTG, 128 Center Ave., Chatham, NJ 07928.


Poster Submission: Please send title, abstract and contact information to Jin Zhang (jin.Zhang@bms.com). If you are from academia, large corporations or local businesses, this is a good opportunity for you to showcase your research network with other people and contact possible employers and clients. In addition to topics on green polymers, we are looking for poster submissions in polymer research in diverse areas, such as polymers in health care, advanced polymer materials, polymer characterization, etc.

Please note abstracts will be 400 words or less. No tables and graphics. The size of the abstract should be 400 words or less. No tables and graphics. The size of the abstract should be 400 words or less. No tables and graphics. The size of the abstract should be 400 words or less. No tables and graphics. The size of the abstract should be 400 words or less. No tables and graphics. The size of the abstract should be 400 words or less. No tables and graphics. The size of the abstract should be 400 words or less.

(continued on page 16)
**2007 LEO HENDRIK BAEKELAND AWARD SYMPOSIUM AND PRESENTATION**

From the Chemistry of Nanoscale Materials to the Engineering of Macroscale Devices

Recipient: Professor John Rogers, University of Illinois at Urbana/Champaign

**Program**

“Bigger is Better: Nano-materials for Large Area Electronics”  
Prof. John Rogers  
Founder Professor of Chemistry and of Materials Science and Engineering  

“Microdevices for Biomedical Research”  
Prof. George M. Whitesides  
Flowers University Professor of Chemistry, Harvard University  

“Optical Control Over Condensed Matter”  
Prof. Keith A. Nelson  
Professor of Chemistry, Massachusetts Institute of Technology  

“Plasmonic Crystal Sensors: Making Molecules Visible to the Naked Eye”  
Prof. Ralph G. Nuzzo  
Lycan Professor of Chemistry, University of Illinois at Urbana/Champaign  

“Who Else is Interested in Chemistry?”  
Dr. Mark Cardillo  
Executive Director of the Camille and Henry Dreyfus Foundation  

Date: Thursday, November 15, 2007  
Place: New Jersey Institute of Technology  
Newark, New Jersey  

Pre-registration is recommended. **Deadline is Wednesday, October 31, 2007.**

Poster presentations will be accepted on a first come first serve basis due to space limitation. Please submit title of the poster, author’s names and a brief abstract by Wednesday, October 31, 2007.

Please register online at [www.njacs.org](http://www.njacs.org).
Call for Nominations

GUSTAVUS JOHN ESSELEEN AWARD FOR CHEMISTRY IN THE PUBLIC INTEREST

The Esselen Award for Chemistry in the public interest is one of the most prestigious honors provided by the Northeastern Section of the American Chemical Society. The award annually recognizes a chemist whose scientific and technical work has contributed to the public well-being, and has thereby communicated positive values of the chemical profession. The Awardee should be a living resident of the United States or Canada at the time of nomination, and the significance of this work should have become apparent within the five years preceding nomination.

The Award consists of a medal and a check for $5,000. Travel expenses incidental to the conferring of this award will be reimbursed. The award will usually be held in Cambridge, Massachusetts at the April meeting of the Northeastern Section. The Awardee will deliver an address on the subject of the work for which the honor is being conferred, or for work in progress which is also directed to chemistry in the public interest.

To nominate a candidate please provide statements from two co-sponsors as well as a brief biography of the candidate, a description of the technical work has contributed to the public well-being, and has thereby communicated positive values of the chemical profession. The Awardee should be a living resident of the United States or Canada at the time of nomination, and the significance of this work should have become apparent within the five years preceding nomination.

Please submit materials by November 30, 2023, to Professor Lawrence Williams, Rutgers University, Department of Chemistry & Chemical Biology, 610 Taylor Road, Piscataway, NJ 08854.

WCS Distinguished Scientist Award 2008


2008 Sister Marian Jose Smith Award of the North Jersey Section

The biennial award funded by Roche, consists of $1,000 prize and a recognition plaque. It recognizes a professor from a degree-granting institution in the North Jersey Section for inspiring students and launching them on successful careers in chemistry as manifested by their accomplishments.

Please submit nominations and supporting letters to Jiwen Chen, Awards Committee Chair, c/o NJ ACS, 4 Cameron Road, Piscataway, NJ 08854. Tel: (609) 818-6319, email: jchen@njacs.org. (We welcome electronic submission of the nomination package.) Nominations must be received by February 8, 2008. Visit http://www.njacs.org/awards.html for more information and a list of past recipients.

New Jersey Institute of Technology - Otto H. York Department of Chemical Engineering Graduate Seminar Series - Fall 2007

October 1

TBA

October 8

"Some Thermodynamic Properties of Near-Critical Systems" John O’Connell

October 15

TBA

October 22

TBA

October 29

"From Particle Packings to Amino Acid Sequences: Statistical Characterization of Complex Systems" Pablo G. Debenedetti

Class of 1950, Professor of Engineering and Applied Science; Professor of Chemical Engineering and Director of Graduate Studies Princeton University, Princeton, NJ Times: Refreshments 2:30 PM Seminars: 2:45 PM Place: New Jersey Institute of Technology Room 117, Njit Kupfrian Hall Seminar Coordinator: Professor Boris Khudis (973) 596-3316, Khudis@adm.njit.edu
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