

The TarHelium



Volume 36, Issue 4

April 2006



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ELECTRONIC DISTRIBUTION OF THE TARHELIUM

Beginning in 2007, the TarHelium will no longer be mailed to the over 2,600 members of the Local Section. Instead, current and archived newsletter issues will be available on the Local Section's website (<http://membership.acs.org/N/NCarolina/index.html>). This change will result in a significant cost savings for the Section, which will be utilized to further enhance chemistry in our area (scholarships, discussions groups, etc.).

Newsletter issues will be posted online in September, November, February, and April of each calendar year.



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The TarHelium

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Keith E. Levine, *Editor*
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SIMON NAMED 2006 NC ACS DISTINGUISHED LECTURER

Dr. John D. Simon, the George B. Geller Professor of Chemistry, Research Professor in Ophthalmology, and Professor of Biochemistry at Duke University, has been named the 2006 North Carolina ACS Distinguished Lecturer. This award is presented annually to a Local Section member to honor significant and recognized research contributions to the chemical sciences. Simon will present a lecture at the upcoming North Carolina ACS Sectional Conference at North Carolina Central University on April 22nd, 2006.

Professor Simon received his B.A. from Williams College in 1979 and his Ph.D. from the Department of Chemistry at Harvard University in 1983. After a postdoctoral fellowship with Professor M.A. El-Sayed at UCLA, he joined the Department of Chemistry and Biochemistry at UCSD in 1985. Simon has earned numerous fellowships and awards for his scientific work, including the Presidential Young Investigator Award, Alfred P. Sloan Fellowship, Camille and Henry Dreyfus Teacher Scholar Award, and the Fresenius Award. He is a fellow of the American Association for the Advancement of Science and the American Physical Society. He has authored more than 190 publications, three books, and has given more than 200 invited presentations on his research. His textbook on physical chemistry, coauthored with Don McQuarrie, has become the standard book for this junior level course in the United States and has been translated into several languages. He is currently the editor of *Photochemistry and Photobiology*.

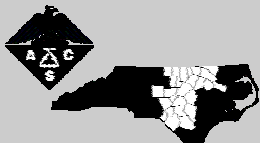
Simon came to the Department of Chemistry at Duke University as the George B. Geller Professor in 1998. He chaired the Department of Chemistry at Duke from 1999 to 2004 and assumed his current position as

Vice-Provost for Academic Affairs in January 2005. As Vice-Provost, he is responsible for the administrative oversight of Duke's strategic planning process, the oversight of research centers in the areas of basic science and engineering, and promoting research and teaching across traditional scientific boundaries. The following are the title and abstract of his presentation:



“Probing the Chemistry of Human Pigments”

Human pigments play an important role in controlling oxidative stress in human tissue. Melanin, a generic term to describe the dark pigments, mitigates such stress in the brain, eye, and skin. While all the pigments are grouped under a common name, the chemical properties of neuro, ocular, and skin melanin differ. It is reasonable to hypothesize the function of melanins differ among pigmented tissues, and oxidative damage to these pigments can induce tissue-dependent biological responses. To understand how human melanins affect oxidative stress requires knowledge of the electrochemical properties of the surface of the intact pigment deposit and/or individual melanosomes. Adverse effects on neurological function or vision may result from localized damage to the pigments, and therefore the most desired information is spatially-dependent properties of these organelles. Specific goals of this work include: to provide new insights into the etiology of neural degeneration observed in pigmented regions of the human brain through understanding of the chemical and spatially-dependent electrochemical properties of neuromelanin; to provide new insights into the etiology of macular degeneration by understanding the relationship between melanosomal damage and increased aerobic reactivity of ocular melanosomes in the retinal pigment epithelium (RPE); and determine the role of lipofuscin in compromising RPE melanosomes as the human eye ages. This talk will introduce the pigment field, report of



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chemical and structure studies used to characterize the pigments, and then present the current results from an array of physical techniques followed by a discussion of their implications.



120th NORTH CAROLINA-ACS SECTIONAL CONFERENCE

Saturday, April 22nd, 2006
North Carolina Central University
Mary M. Townes Science Complex

Oral and poster presentations will take place between 8:00 AM – 12:00 PM. The General Session will be held immediately after the technical program. It will include presentation of the 2006 Marcus E. Hobbs Award for service to the Local Section, and will conclude with the 2006 NC-ACS Distinguished Chemist Lecture, presented by Professor John D. Simon. Lunch will follow immediately after the General Session.

After lunch, a workshop on doing chemical demonstrations will be held if there is sufficient interest. Anyone considering volunteering at the NC State Fair (October 13-22, 2006), schools, or other venues is encouraged to attend. Participants are also encouraged to bring their own demonstrations and ideas to share with the group. Participants should bring safety glasses, if possible. Please register for the workshop online at the main NC-ACS web page

(<http://membership.acs.org/N/NCarolina/>)

or

http://www2.ncsu.edu/ncsu/chemistry/outreach/nc-accs/application_ls_conf.html

by April 17, 2006.

REGISTRATION AND LUNCH RESERVATIONS

Registration is free and includes the meeting program booklet, a coffee break and a buffet lunch catered by Bullock's Bar B Que. All presenters have been registered for the

meeting. Other attendees should register no later than April 17, 2006 online at the main NC-ACS web page (<http://membership.acs.org/N/NCarolina/>) or at

http://www2.ncsu.edu/ncsu/chemistry/outreach/nc-accs/registration_ls_conf.html

Please register promptly so that we have an accurate head count for lunch.

The meeting registration table will open at 7:30 AM. Upon arrival, please stop by the registration table to pick up a program, registration tag, and lunch ticket. Signs will direct you to the registration table within the Mary M. Townes Science Complex.

INSTRUCTIONS TO PRESENTERS

A preliminary version of the program is presented in this issue of the TarHelium. **For a complete technical program, with a listing of all presentations and presentation times and locations,** please refer to the Local Section website: (<http://membership.acs.org/N/NCarolina/>).

Please send program corrections to the Program Chair, Alan Tonelli at (alan_tonelli@ncsu.edu).

Oral Presentations

All oral presentations will be 20 minutes, preferably a 15-minute presentation with 5 minutes for questions. As a professional courtesy, please limit your presentation to the allotted time. The chair of a session will coordinate the session.

Each room will be equipped with an LCD computer projector, an overhead projector and a solid pointer. If you prefer a laser pointer, please bring your own.

Poster Presentations

Posters should be put up by 8:30 AM. Poster presenters are expected to be at their posters during the session discussion times, which will be listed in the final conference program. The poster boards are 4 feet by 6 feet and will be labeled with poster numbers and session headers. Please bring your own tacks, and leave your poster up until lunch.

120th NC
Sectional
Conference

DIRECTIONS/PARKING**From I-40:**

If driving from east of Durham, take I-40 West to the Fayetteville Road exit (# 276). This exit is also used for the Streets at Southpoint mall. Turn right off of the exit ramp and stay on Fayetteville for approximately 5.5 miles. Enter the NCCU campus by turning left on to Lawson Street. The Mary M. Townes Science Complex will be visible on your left (just past Concord Street) in approximately 0.1 miles. A large parking lot is located immediately behind the building (on your left, approximately 0.2 miles on Lawson Street from Fayetteville).

If driving from west of Durham, take I-40 East to the Fayetteville Road exit (#276), and turn left off of the exit ramp onto Fayetteville. Then, follow the directions to the Mary M. Townes Science Complex as described above.

From NC147:

If driving on North NC147, take exit 12A and turn left on to Fayetteville Street from the exit ramp. Stay on Fayetteville for approximately 0.8 miles, and turn right on to Lawson Street. The Mary M. Townes Science Complex will be visible on your left (just past Concord Street) in approximately 0.1 miles. A large parking lot is located immediately behind the building (on your left, approximately 0.2 miles on Lawson Street from Fayetteville).

If driving on South NC147, take exit 12. Go straight on the exit ramp for approximately 0.4 miles, and turn right on to Fayetteville Street. Then, follow directions to the Mary M. Townes Science Complex as described above.

Parking:

Parking will be available immediately behind the Mary M. Townes Science Complex. A link to the NCCU campus is provided below.

Campus Map: <http://www.nccu.edu/map>
(The Mary M. Townes Science Complex is Building # 34 on the campus map).

ACKNOWLEDGEMENTS

The NC-ACS Local Section gratefully acknowledges North Carolina Central

University for hosting this event, and Dr. John Myers and his Chemistry Department colleagues for coordinating the use of North Carolina Central University facilities.

Alan E. Tonelli
NC-ACS Program Chair
alan_tonelli@ncsu.edu

**PRELIMINARY CONFERENCE
PROGRAM****GENERAL SESSION****Charles Goss, NC ACS Chair, Presiding**

- Recognition of 50-year ACS members
- Recognition of 2005 Barbara Whittaker Awardees
- Recognition of 2005 Undergraduate Scholarship Awardees
- Presentation by Ann Nalley, ACS President, in recognition of GlaxoSmithKline support for the ACS Scholars Program
- Presentation of the 2005 Chair's Award
- Presentation of the Past Chair's Award
- Presentation of the 2005 Marcus E. Hobbs Award
- Presentation of the 2005 NC ACS Distinguished Lecture Award to John D. Simon

ANALYTICAL CHEMISTRY**Preliminary Oral Presentations**

Applying Superfluid Helium Nanodroplets to the Study of Ions: New Possibilities. **Travis M. Falconer**, William K. Lewis III, Aaron M. Johnson, Raymond J. Bemish, Gary L. Glish, Roger E. Miller; Department of Chemistry, UNC-CH.

Methods for Distinguishing Isomeric Volatile Organic Compounds in a Quadrupole Ion Trap Mass Spectrometer. **Karen S. Wendling**, Gary L. Glish; Department of Chemistry, UNC-CH.

Determining Proton-Transfer Reaction Rate Constants of Volatile Organic Compounds Using Quadrupole Ion Trap Mass Spectrometry. **Jeremy A. Felton**; UNC-CH.

High Throughput Screening Applications of SUPREX. **Erin D. Hopper**, Petra L. Roulhac, Michael C. Fitzgerald; Department of Chemistry, Duke University.

Application of SUPREX to Characterizing the Binding Affinity of Inhibitor Ligands for non-Two-State Folding Proteins. **Liangjie Tang**, Michael C. Fitzgerald; Department of Chemistry, Duke University.

Preliminary Poster Presentations

Method Comparison of Calcium Analysis: Flame AA vs. Ion-Selective Electrode. **Karen L. Parkes**, W. Lin Coker; Department of Chemistry, Campbell University.

Electrochemistry of Cytochrome c: A New Hypothesis for a Thermodynamic Anomaly. **Edward L. D'Antonio**, Edmond F. Bowden; Department of Chemistry, NCSU.

Development of a Pulsed, Multiplexed, nano-Electrospray Ionization Source. **Jared M. Bushey**, Gary L. Glish; Department of Chemistry, UNC-CH.

Bath Gas Pressure Effects on Protein Charge State Distribution and Intensity. **Brittany L. Butler**, Gary L. Glish; Department of Chemistry, UNC-CH.

A Low Temperature Quadrupole Ion Trap for IRMPD and Laser Spectroscopy Experiments. **Philip M. Remes**, Alessandra L. Ferzoco, Gary L. Glish; Department of Chemistry, UNC-CH.

**BIOCHEMISTRY
Preliminary Oral Presentations**

Controlled Encapsulation of Nanoparticles by a Viral Protein Shell. **LiNa Loo**, Richard Guenther, Steven A. Lommel, Stefan Franzen; Department of Chemistry, NCSU.

Disulfide Bridges in Cry1Aa delta-endotoxin and its relationship with Ion Channel Formation. **Oscar Alzate**, April Curtiss, Michel Claybon, Cristina

Osorio, Alvaro M. Florez, Taek You, Donald H. Dean; Department of Neurobiology, Duke University Medical Center.

Sequence Specific Effects on NMR Characterization of Platinated DNA Adducts. **Debadeep Bhattacharyya**, Candice King, Yibing Wu, Sharon L. Campbell, Stephen G. Chaney; Department of Biochemistry and Biophysics, UNC-CH.

Towards an Optimal Chemicogenomic Database. **ClarLynda R. Williams-DeVane**, Ann M. Richard; US EPA and NCSU Bioinformatics Program.

**CHEMICAL EDUCATION
Preliminary Oral Presentations**

Method Comparison of Calcium Analysis: Flame AA vs. Ion-Selective Electrode. **Karen L. Parkes**, W. Lin Coker; Department of Chemistry, Campbell University.

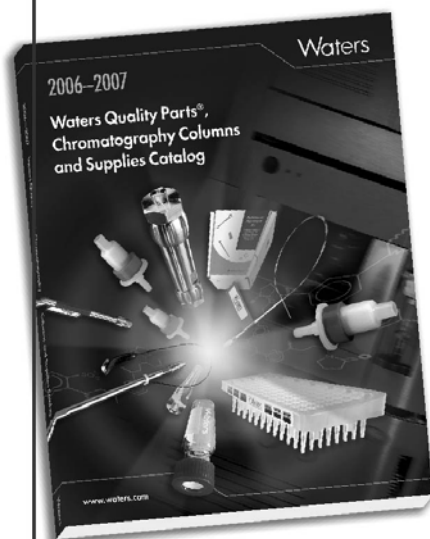
**ENVIRONMENTAL CHEMISTRY
Preliminary Oral Presentations**

The Environment, the Public, and Education. **L. Jacqueline Arroyo**, John J. Bang, Yolanda Banks-Anderson, Sandra DeLauder; Environmental Science Program and Chemistry Department, NCCU.

**NC-ACS
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**Visit us in Booth 36-38 at the
TCDG Symposium
May 18, 2006**

(Continued from page 5)

Nano-material Synthesis for Photocatalytic Water Decontamination. **John Bang**, Saundra DeLauder, Yolanda B. Anderson, Geoffrey B. Saupe; Department of Chemistry and Environmental Science Program, NCCU; Department of Chemistry, UTEP.

A 2-Iminohydantoin from the Oxidation of Guanine. **Karl M. Koshlap**, Wenjie Ye, R. Sangaiah, Diana E. Degen, Avram Gold, K. Jayaraj, Gunnar Boysen, Jason Williams, Kenneth B. Tomer, and Louise M. Ball; School of Pharmacy and Department of Environmental Sciences and Engineering, UNC-CH; NIEHS/NIH.

H-1 NMR Hyperfine Resonance Assignments in Cyanide-Ligated Dehaloperoxidase. **Michael F. Davis**, Jennifer Belyea, Hanna Gracz, Stefan Franzen, Sean M. Decatur; Department of Chemistry, NCSU; Department of Chemistry, Mount Holyoke College.

In Vivo Metabolomics. **Jeffrey M. Macdonald**; Department of Biomedical Engineering, UNC-CH.

ORGANIC CHEMISTRY Preliminary Oral Presentations

First Total Synthesis of Rottlerin. **Marc J. Adler**, Steven W. Baldwin; Department of Chemistry, Duke University.

Targeted Drug Delivery for Neuroblastoma using MIBG. **James B. Springer**, M.P. Gamcsik, T.A. Driscoll, G. Vaidyanathan, O.M. Colvin, S.M. Ludeman; Comprehensive Cancer Center, Duke University.

A Facile and Efficient Direct Aldol Addition of Simple Thioesters. **Julianne M. Yost**, Guoqiang Zhou, Don M. Coltart; Department of Chemistry, Duke University.

Preliminary Poster Presentations

Recent Advances on Nicotine Chemistry at NC State University. **Florence C. Fevrier**, Daniel L. Comins; Department of Chemistry, NCSU.

Sulfonylhydrazone Syn-dianion Effect in the Development of A Novel Approach to Polyol Synthesis. **Fang Fang**, Don M. Coltart; Department of Chemistry, Duke University.

A Novel Approach to the Development of Small Molecule Inhibitors of Cdc25 Phosphatase. **Anna V. Gromova**, Julianne M. Yost, Johannes Rudolph, Don M. Coltart; Departments of Chemistry and Biochemistry, Duke University.

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INORGANIC CHEMISTRY Preliminary Oral Presentations

Solid State NMR, X-ray, and Neutron Diffraction Study of Structural Phase Transitions involved in Crystal Melting of CuAlCl₄. **Stan S. Toporek**, Amanda Josey, James D. Martin; Department of Chemistry, NCSU.

Preliminary Poster Presentations

Development and Reactivity of Ru(II) Hydroarylation Catalysts. **Karl A. Pittard**, T. Brent Gunnoe, Jeffrey L. Petersen, Cynthia S. Day; Department of Chemistry, NCSU.

NMR SPECTROSCOPY Preliminary Oral Presentations

Fast J-Resolved Experiment for Metabolomics Analysis. **Thomas M. O'Connell**, Ronald Crouch; Metabolomics Laboratory, UNC-CH; Varian NMR Instruments.

Contemporary Applications of Sulfonyl Hydrazones to Carbon-Carbon Bond Formation. **Fang Fang**, Daniel Lim, Don M. Coltart; Department of Chemistry, Duke University.

A Facile and Efficient Three Component Direct Aldol Addition Involving Simple Thioester Enolates - A Rapid and Versatile Entry to Polyketide Motifs. **Guoqiang Zhou**, Julianne M. Yost, Don M. Coltart; Department of Chemistry, Duke University.

PHYSICAL

Preliminary Oral Presentations

Raman, EPR and Electrochemical Studies of the Active Site of Dehaloperoxidase from Amphitrite ornata as a Function of pH. **Jennifer L. Belyea**, Michael Davis, Lauren Gilvey, Reginaldo Rocha, Andrew P. Shreve, Stefan Franzen; Department of Chemistry, NCSU; Los Alamos National Laboratory.

Generalized Mulliken-Hush Analysis of Electronic Coupling Interactions in Compressed π -Stacked Porphyrin-Bridge-Quinone Systems. **Jieru Zheng**, David N. Beratan; Department of Chemistry, Duke University.

Single-Molecule Force Spectroscopy Measurements of "Hydrophobic Bond" Between Tethered Hexadecane Molecules. **Chad Ray**, Jason R. Brown, Boris B. Akhremitchev; Department of Chemistry, Duke University.

Preliminary Poster Presentations

Polymeric Linker Length Dependence of Intermolecular Rupture Forces in Single Molecule Force Spectroscopy. **Jason R. Brown**, Chad Ray,

Boris B Akhremitchev; Department of Chemistry, Duke University.

POLYMERS

Preliminary Oral Presentations

Scalable fabrication of organic nanoparticles using Particle Replication in Non-wetting Templates (PRINT). **Benjamin W. Maynor**, Joseph M. DeSimone; Department of Chemistry, UNC-CH.

Solid-State Complexation of Polymer-Cyclodextrin Inclusions. **Marcus A. Hunt**, Alan E. Tonelli, C. Maurice Balik; Department of Departments of Material Science and Engineering and Textile Engineering and Chemistry, NCSU.

Functionalized Liquid Precursors for New Fluorinated Elastomers. **Jennifer Y. Kelly**, Joseph M. DeSimone; Department of Chemistry, UNC-CH.

High Surface Area, Highly Conductive Proton Exchange Membranes from Liquid Precursors. **Zhilian Zhou**, Joseph M. DeSimone; Department of Chemistry, UNC-CH.

Alternative Fluoropolymers to Avoid the Challenges Associated with PFOA. **Ji Guo**, Joseph M. DeSimone; Department of Chemistry UNC-CH.

Polymerization of Nitroaromatics using Inorganic Lewis Acids. **Robert J. Wilcox**, Jacob Folmer, James Martin; Department of Chemistry, NCSU.

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Preliminary Poster Presentations

Interfacial Behavior of Heteropolymers with Adjustable Monomer Sequences (HAMS). **Young Kuk Jhon**, Jan Genzer; Department of Chemistry and Biomolecular Engineering, NCSU.

CALL FOR PAPERS – NCACS 2006 SCHOLARSHIP AWARDS

Scholarships will be awarded to undergraduate students who will actively be conducting research in the chemical sciences. The exact scholarship amount will depend on the number of awards. Last year, Gregory W. Charville (UNC – Chapel Hill) received a first place NCACS award of \$2,000, and Mark Adam Eckert (NCSU) and Kimberly Hung (UNC – Chapel Hill) received NCACS runner-up awards of \$1,250 each. Please note that only undergraduate students within the North Carolina Section of the ACS are eligible.

Scholarship money can be used to supplement the needs of the student's work in the laboratory in the form of research reagents, copies, books, and computer software. The scholarship money can not be used for tuition or housing costs. The scholarship grant becomes available for work beginning as early as the summer of 2006, and expires at the end of the spring semester in 2007.

Application Deadline: April 28, 2006.

Applicants are strongly encouraged to use the on-line scholarship application form found at the following URL:

<http://membership.acs.org/N/NCarolina>

or contact Bryce Chaney
(Bryce_Chaney@bd.com)
for application instructions.



2006 NIEHS CAREER FAIR

Attention post-docs and graduate students!

Looking for that perfect job in the biological sciences? Want to learn more about traditional and not-so-traditional career paths for Ph.D. scientists? Well, here is the perfect opportunity to learn all of that and to practice your networking skills!

Please join us **Friday, April 28, 2006** for the 9th annual National Institute of Environmental Health Sciences (NIEHS) Career Fair held at the Sigma Xi center in the Research Triangle Park. The Sigma Xi center is located at 3106 East NC Highway 54.

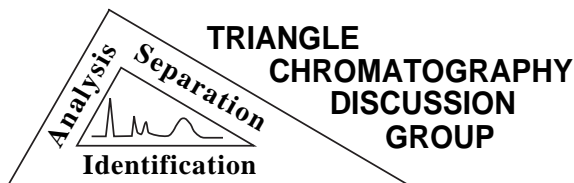
Check out the website below for more information regarding registration and to download the tentative agenda:

<http://www.niehs.nih.gov/nta/fair.htm>

See you there!

2006 NC
ACS
Scholarship
Award
Nominations

2006 NC
NIEHS
Career Fair



23RD TRIANGLE CHROMATOGRAPHY SYMPOSIUM AND INSTRUMENT EXHIBIT

Thursday, May 18, 2006
McKimmon Conference and Training Center
NCSU, Raleigh

The Symposium will feature state-of-the-art presentations in diverse areas of chromatography by nationally known experts. Invited Symposium speakers will be:

Matthew Przybciel (ES Industries) - *"Novel LC Chemistries and Applications"*

Robert Sears (SC SLED) - *"The CSI Effect—Separations in Forensic Toxicology"*

Christa Colyer (WFU) - *"The Analysis of Phycobiliproteins from Cyanobacteria (and other CE-LIF stories)"*

Lisa Ford (Scynexis) - *"Automated, High-throughput Method Development for LC/MS"*

William Tong (SDSU) - *"Ultrasensitive Absorption-Based Laser Wave-Mixing Detection Methods for Microfluidic and Capillary-Based Separation Systems"*

Nicholas Oberlies (RTI) - *"How much do you need of that diastereoisomer! Challenges and opportunities in the purification of herbal constituents for preclinical evaluation"*

The Instrument Exhibit will feature the largest concentration of vendors for chromatographic instruments and supplies in the southeast (59 booths).

Ten Exhibitor Seminars specific to Exhibitor's products have been scheduled concurrent with the Symposium and Instrument Exhibit. The titles and schedule will be published in the event program.

Posters will be presented in the Exhibit Hall as part of the Symposium/Exhibit information exchange available at this event. The Student

Posters will be judged by several of the Symposium Speakers in a competition with a 1st (\$400), 2nd (\$300), and 3rd (\$200) prize.

Registration fees will be \$35 (regular) before May 12, 2006 and \$55 (regular) onsite. Lunch will be provided on the premises as part of the registration. Free Exhibit-Only registration is also available. Registration can be accomplished by credit card (online registration through NCSU, McKimmon) and by mail-in form (registration flyer). Details for BOTH are available at <http://rtpnet.org/tcdg/> using the link to the 23rd Symposium.

The TCDG Steering Committee is a group of volunteers responsible for all planning and most of the execution of the TCDG events such as the annual Symposium and Exhibit. The committee welcomes the help of other professionals in the areas of analytical chemistry and other disciplines which use chromatography as a tool.

**TCDG
Symposium
and
Instrument
Exhibit**

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2006 Gilbert Awards

2006 RICHARD D. GILBERT AWARDS CONFERRED

The 11th annual Richard D. Gilbert Awards in Polymer Science were presented at the Richard D. Gilbert Polymer Science Symposium, held in February at North Carolina State University (NCSU). The awards, funded by Lord Corporation, are meant to encourage excellence in polymer science and engineering.

The first-place award (a commemorative certificate and \$700) was awarded to Angelica Sanchez (NCSU) for "Anomalous temperature behavior of nanoparticle filled polyethers" (Advisor: Saad Khan). The second-place award (a commemorative certificate and \$400) was awarded to Julie Crowe (NCSU) for "Creating responsive surfaces with tailored wettability switching kinetics and reconstruction reversibility" (Advisor: Jan Genzer). The third-place award (a commemorative certificate and \$200) was awarded to Xiaoyu Sun (NCSU) for "Field-driven surface biofunctionalization of electrospun fibers" (Advisor: Rich Spontak). The poster prize (a commemorative certificate and \$200) was awarded to Jennifer Kelly (UNC-Chapel Hill) for "Functionalized liquid precursors for new fluorinated elastomers" (Advisor: Joe DeSimone).

The symposium and awards are named after Richard D. Gilbert, a founding member of the ACS North Carolina Section Polymer Discussion Group, which sponsored and hosted the symposium. This was the first symposium since the passing of Professor Gilbert. Professor Ray Fornes made a statement about Professor Gilbert's contribution to the development of a polymer science program at NCSU. Students and recent graduates in the Research Triangle Park region of North Carolina are eligible to be nominated for the awards. Please contact Russell Gorga (regorga@ncsu.edu) if you would like more information about these awards.



Award winners from left to right: Xiaoyu Sun, Julie Crowe, Jennifer Kelly, and Angelica Sanchez

PROPOSED CHANGES TO LOCAL SECTION BYLAWS

Bylaws Changes

The North Carolina ACS Section bylaws were last revised on January 12th, 1993. There are currently a series of proposed changes which must be approved by a quorum of our Section's voting members (this represents 27 votes) in order to go through the approval process with the ACS Council Committee on Constitution and Bylaws.

The proposed bylaw revisions are available online (please follow the link below and look for revised bylaws link), with the present wording highlighted in yellow, and the proposed changes to this wording in **bold, italic** font. Proposed deletions are indicated by text highlighted in yellow and in strikethrough font.

<http://membership.acs.org/N/NCarolina>

The proposed bylaw changes can be summarized in a few statements:

Wording has been changed to make the bylaws gender neutral; for example, the chair's term was previously referred to as *his term*; it will now read the *chair's term*.

Voting of any kind (for officers, for changes, etc.) was specified to be by mail ballot. In a recent national election, the ACS allowed for electronic balloting, and this software may soon be available for local sections to utilize. Hence, many of the changes are to allow ballots to be distributed in any fashion, including electronically.

The organization referred to in Bylaw XIII no longer exists; hence, the proposed change a more generic specification.

The following ballot is required for our membership to vote on these proposed changes and should be submitted to the address listed on the ballot no later than May 1st. Please note that you may also vote in person at the Local Section Meeting on April 22nd, which will be held at North Carolina Central University. A sheet will be available at the conference for your vote.

<p>I _____ :</p> <p><input type="checkbox"/> Approve the proposed changes to the NC Section bylaws</p> <p><input type="checkbox"/> Do <u>NOT</u> approve the proposed changes to the NC Section bylaws</p> <p><input type="checkbox"/> Do <u>NOT</u> approve the following proposed changes to the NC Section bylaws:</p> <p>_____</p> <p>_____</p> <p>_____</p>
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Please submit this ballot by May 1, 2006 to:

Sol Levine, Chair, Bylaws Revisions Committee
 1307 Legacy Green Ave, Wake Forest, NC 27587



April 26, 2006
 7:00 AM—6:00 PM (Rain Date: 5/3/06)
 Old EPA Parking Lot, 86 T.W. Alexander Drive, RTP, NC



**RTP
 Electronics
 Recycling
 Day**

Download and bring a completed Environment@RTP Recycle Form from
www.Environmentrtp.org/NewsEvents.html

Environment@RTP is a committee of the RTP Owners and Tenants Association focusing on environmental issues facing RTP companies. Established in 2002, the committee is funded by the RTP Service District Advisory Board.

Environment@RTP is pleased to host this event in partnership with the Solid Waste Divisions from the City of Durham, and Orange, Wake and Durham counties.

Salvageable computers will be repaired and refurbished by the Triangle United Way and donated to local not-for-profit organizations.

The following materials will be accepted: Items that will NOT be accepted include:

- | | |
|--|--|
| <ul style="list-style-type: none"> • Computer systems/monitors/peripherals (limit 3 systems per RTP employee) • Televisions 27" or less (no consoles) • Mercury thermometers/thermostats • Stereo/audio equipment • Desktop copiers/faxes • Cell phones • VCRs or DVD players | <ul style="list-style-type: none"> • Speakers larger than 18" per side • Televisions larger than 27" • Smoke Detectors • Appliances • Office equipment (e.g. large copiers) • Other non-residential equipment • All other household hazardous waste |
|--|--|

The TarHelium Volume 36: Number 4

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THE TARHELIUM

The TarHelium is a publication of the North Carolina Section of the American Chemical Society. The views expressed herein are not necessarily those of the Section. Public lectures and seminars as well as announcements of interest to the ACS membership will be listed as deemed appropriate by the editor and as space permits. Short commentaries or contributed articles will also be considered. Also, we are happy to publicize, free of charge, any job openings for chemists. We also accept paid advertisements for more extensive recruiting announcements.

NC Section Electronic Communications

The NC Section of the ACS offers two services which may be of interest to members: 1) a listserver and 2) a web page: <http://membership.acs.org/N/NCarolina/>.

The listserver is used for ACS meeting announcements and for job announcements. Unlike some lists, the number of postings is quite limited--usually no more than 3 or 4 a month. This list is moderated, which means that all messages must be approved by the list owner before they are posted. If you have a valid opening within the NC Section, please mail an appropriate announcement to bill_switzer@ncsu.edu. Very occasionally openings outside of the NC Section are posted. If you wish to subscribe, address mail to: mj2@lists.ncsu.edu. The subject field is ignored, but in the message field type: **subscribe NCACS**. Your return address becomes your subscription address. These instructions as well as those for removing your name are linked to the web page.

If you have not looked at the web page recently, please do so. The Executive Committee is committed to making this page a useful resource. It is constantly being updated to include new information. Please feel free to suggest additional links and PLEASE offer to take responsibility for maintaining one or more of the local links. Contact: bill_switzer@ncsu.edu.