



OCTOBER							NOVEMBER						
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27	28	29	30	31			17	18	19	20	21	22	23
							24	25	26	27	28	29	30

- 10-10-02 D. Canelas - PDG Speaker
- 10-11-02 SERMACS2002 Deadline for meeting registration
- 10-18-02 BioFrontiers - NC State Fair (10/18-27/02)
- 10-20-02 NCW (10/20-27/02)
- 10-24-02 MagRes Meeting (Sheraton Imperial Hotel - RTP) 10/24-27/02
- 10-27-02 NCW - NC Museum of Natural Sciences
- 10-30-02 SERMACS on-line meeting registration ends
- 11/13/02 54th SERMACS, Charleston, SC
- 11/14/02 Professor Kenneth A. Mauritz - PDC Speaker
- 11/20/02 2003 YCC Leadership Development Workshop - Atlantic, GA

## IN MEMORIAM Monroe E. Wall, Ph.D.

Co-discoverer of the Cancer Drug Taxol

Dr. Wall, one of RTI's research giants, passed away on July 7 at the age of 85. He was co-discoverer of the anti-cancer compounds Taxol® and Camptothecin<sup>(tm)</sup>, and two years ago he and long-time colleague Mansukh Wani, Ph.D., were awarded the prestigious Charles F. Kettering Prize for



the American Pharmaceutical Association's top research prize for natural products chemistry, and the American Pharmacognosy Society's Research Achievement Award. In 1998 he was awarded the American Chemical Society's Alfred Burger

Award, the most prestigious award in medicinal chemistry.

their pioneering work in medicinal chemistry.

President Victoria F. Haynes said, "Monroe Wall was one of our founding employees, and one of our most outstanding. Through his achievements, such as his work on Taxol and other drugs, he made substantial contributions to improving the human condition. His long and productive career at RTI also contributed immensely to RTI's scientific stature. We revere him and will miss him both personally and professionally."

Dr. Wall's life was in his work and he could be found in the laboratory every day up until he became ill two weeks ago and entered a local hospital. A senior scientist in Chemistry and Life Sciences (CLS), Dr. Wall came to RTI in 1960 specifically to start a chemistry research group here. In addition to carrying on his own research, he served as research vice president from 1971 to 1983, during which time he helped build up RTI's staff and capabilities in the areas of analytical and environmental chemistry, life sciences and bioorganic chemistry, organic and medicinal chemistry, and toxicology. He also taught at the University of North Carolina and North Carolina State University.

In addition the Kettering Prize--the highest honor in the field of cancer research--Dr. Wall was the recipient of the Department of Agriculture's Superior Accomplishment award,

The Wall-Wani discoveries of Taxol and Camptothecin in the 1960s helped revolutionize modern cancer research. By isolating and elucidating the structure of these novel, bioactive natural products, they unearthed new mechanisms of action for inhibiting cancer cell growth and established new principles for discovering other bioactive compounds from natural sources. Their discoveries are directly credited with saving the lives of hundreds of thousands of cancer sufferers.

A native of Newark, New Jersey, Dr. Wall received his BS, MS, and Ph.D. degrees from Rutgers University. To honor him, the university has established the Monroe Wall Symposium, a biennial international scientific meeting about the search for pharmaceuticals from sources in nature. In honor of both Dr. Wall and Dr. Wani, RTI plans to establish post-doctoral and visiting scientist fellowships in its Natural Products Laboratory, with an endowment to support these scientists in self-directed research.

Surviving family members include his wife, Marian; a son, Michael Wall of Portland, Or.; a daughter, Martha Nebb of Potomac, Md.; two sisters: Martha Schonberg of Jersey City, N.J., and Flora Friedman of West Orange, N.J.; and four grandchildren. ■

Bradley E. Sturgeon, *Editor*

Judi Price, *Copy Editor*  
Sol Levine, *Address Information*  
Custom Mail Solutions,  
*Printing/Mailing*

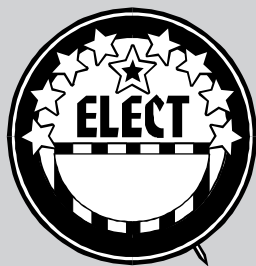


NCACS  
EXECUTIVE COMMITTEE

S. J. Summer, Chair 2002  
J. A. Myers, Chair Elect  
S. Levine, Secretary  
J. T. Burse, Treasurer

### The TarHelium

Volume 33: Number 1  
Bradley E. Sturgeon, *Editor*  
4400 Currie Court  
Raleigh, NC 27613



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 Darrell Coleman, YCC

## CALL FOR NOMINATIONS NC-ACS

It is that time of the year....the Section is now accepting nominations for the NC-ACS officers listed below. A biographical sketch of the candidates will be published in the November issue of the TarHelium. Self-nominations are also welcome. The following positions will be filled:

### Chair-Elect: (1-year term)

*The Chair-Elect manages the section's program of meetings, assists the Chair with the management of the section, and represents the Chair in his absence. The Chair-Elect will assume the role of Chair in the following year.*

### Treasurer: (2-year term)

*The Treasurer is the financial officer of the section.*

### Councilor: (3-year term)

*Councilors represent the section at National Council Meetings of the American Chemical Society*

### Alternate Councilor : (3-year term)

*Alternate Councilors represent the section in the absence of a Councilor at National Council meetings of the American Chemical Society.*

Full job descriptions of officer responsibilities can be found on the NC-ACS website under "Job Manual" or directly at

[http://membership.acs.org/N/NCarolina/job\\_manual.html](http://membership.acs.org/N/NCarolina/job_manual.html)

If you are interested in running (self nominations welcome), or know of someone who may be interested in running for office, please contact C. M. Balik (919)-515-2126 or balik@ncsu.edu. Full biographical sketches of the candidates will be published along with the NC-ACS ballot in the November issue of the TarHelium.

## Call for Nominations for the NC Distinguished Lectureship

The North Carolina Section of the American Chemical Society announces a call for nominations for the NC Distinguished Lectureship for 2003. The award is to recognize distinguished contributions to the chemical sciences while in the territory of the North Carolina Section. The lecture will be given at the April 2003 Local Section Conference. We have had NC Distinguished

Lectures for over 21 years; previous lecturers can be found on the Section web page. Nominations should contain the following information: (1) a letter (1-2 pages) giving the name, title, and affiliation of the nominee and a somewhat detailed explanation as to why he or she should be considered for the Distinguished Lectureship; (2) a brief curriculum vitae (not more than 2 pages); and (3) a list of 12 of the nominee's most important publications. Any ACS member in the territory of the NC Section is eligible. Also eligible are ACS members who, while no longer live in the area of the Section, have made the contributions for which they are to be recognized while in the Section's territory. Nominations should be mailed to:

Bradley E. Sturgeon,  
 4400 Currie Court  
 Raleigh, NC 27613  
 bes@unc.edu

The deadline for nominations is January 15, 2003. Please include no more than two seconding letters with the nomination. ■

## Call for Nominations - Marcus E. Hobbs Award

All members of the Local Section are invited to submit nominees for the Marcus E. Hobbs Award. It recognizes distinguished service to the North Carolina Local Section. Please send nominations to:

Brad Sturgeon at:  
 4400 Currie Court  
 Raleigh, NC 27613  
 bes@unc.edu

Nomination information should include a paragraph stating why the nominee is deserving. This paragraph will be the foundation for a citation to be read at the Spring Local Section Conference in April 2003. Former recipients include:

- 2002 Thomas A. Lehman - UNC, Chapel Hill
- 2001 Richard A. Palmer - Duke University
- 2000 Richard D. Gilbert - NCSU
- 1999 John W. Hines -RTI
- 1997 Suzanne T. Purrington - Dept. of Chemistry, NCSU
- 1996 Ernest L. Eliel - Dept. of Chemistry, UNC, Chapel Hill

For a complete list of recipients, please refer to <http://membership.acs.org/N/NCarolina/hobbs.html>. ■

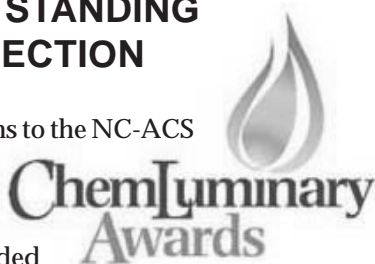
## NC-YCC AWARDED CHEMLUMINARY AWARD FOR OUTSTANDING LOCAL SECTION

Congratulations to the NC-ACS  
Younger  
Chemist  
Committee

for being awarded  
the 2002 Outstanding

Local Section Younger Chemists Committee Award —The emphasis of the North Carolina Local Section Younger Chemists Committee (LSYCC) has been to bring its members together socially as well as scientifically. Their events have given members opportunities to socialize and network with other LSYCC members as well as other members of the ACS community. The most notable of these events include a joint Senior Chemists Committee–Younger Chemists Committee lecture and a biannual mixer to allow chemists attending the national ACS meeting a chance to network before departing. The group increased the ACS presence at the Student Affiliates level by attending a Career Fair at University of North Carolina at Chapel Hill.

A thriving social event schedule included a volleyball team and a tour of the Chatham Hill Win-



ery. The North Carolina LSYCC was the major organizer of the BioFrontiers booth at the North Carolina State Fair where members interacting with nearly 170,000 fairgoers! ■



*On the left: NC-YCC President Darrell Coleman (Eli Lilly and Co.) and NC-YCC Vice President Chris Lowden (PPD Discovery) with Helen Free (center) at the National ACS ChemLuminary Awards in Boston.*

## 2003 YCC Leadership Development Workshops

Three YCC Leadership Development Workshops will be held at ACS regional meetings in 2003: the Western Regional Meeting in Long Beach, CA (October 15 – 18), the Central Regional Meeting in Pittsburgh, PA (October 19 – 22), and the Southeastern Regional Meeting in Atlanta, GA (November 20 – 22).

ACS members who would like to apply for a YCC Leadership Development Award to attend one of these workshops should submit their applications to the Younger Chemists Committee, c/o Ms. Stephanie Allen, American Chemical Society, 1155 16th Street, NW, Washington, DC 20036 by Tuesday, April 1, 2003. More information and the application form for the 2003 YCC Leadership Development Awards is posted at [chemistry.org/ycc](http://chemistry.org/ycc).

ACS members who would like to attend one of the workshops with the support of their employ-

ers or ACS local sections, divisions, or committees should contact Stephanie Allen at [s\\_allen@acs.org](mailto:s_allen@acs.org). Since participation is limited, YCC will be extending invitations for each workshop only to 15 interested ACS members who have external support.

Please see [chemistry.org/ycc](http://chemistry.org/ycc) for more information. ■

## THOUGHTS TO PONDER....

*The elevator to success is out of order. You'll have to use the stairs ... one step at a time.*

--Joe Girard, Sales Consultant

### YCC Leadership Workshops

10/15-18/03 - Long Beach CA  
10/19-22/03 - Pittsburgh, PA  
11/20-22/03 - Atlanta, GA

## Chemistry Olympiad Goals

- ★ to stimulate...
- ★ to recognize...
- ★ to promote...
- ★ to foster...
- ★ to challenge...

## Chemistry Olympiad

The Local Section ACS Section sponsors the local Chemistry Olympiad competition. This year 13 students for the NC Section qualified to take the National Exam. Unfortunately none of these students qualified as one of the 20 members of the prestigious U.S. Chemistry Olympiad team.

The goals for the program are:

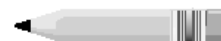
- to stimulate all young people to achieve excellence in chemistry,
- to recognize outstanding chemistry students, and by doing so to encourage additional learning at a formative time in their intellectual development,
- to recognize the excellent achievement of the teachers of these students and the importance of the school environment in which they learn,

- to promote contact between the section and area schools to foster the interest and influence of professional chemists in the teaching of chemistry,
- to foster cross-cultural experiences and to acquaint students with similarities and differences between themselves and their counterparts in other nations,
- to challenge the chemical knowledge and skills of students in an international competition.

### FOUR GRADUATING SENIORS WILL COMPETE IN INTERNATIONAL CHEMISTRY CONTEST

Four of the nation's best and brightest high school students represented the U.S. at the 34th annual International Chemistry Olympiad in Groningen, the Netherlands, July 5–14. Competing against teams from more than 50 other countries were Daniel Cissell of Walnut Hills High School in Cincinnati; Timothy Davenport and Helen H. Shi, both of the Oklahoma School of Science & Math in Oklahoma City; and Colin Whittaker of Wayland High School in Massachusetts.

Questions about the Program may be directed to Dr. Myra Halpin (halpin@ncssm.edu)



## National Exam Qualifiers

Student	High School	Chem. Teacher
Kevin Henderson	Green Hope	Ruth Wormald
Artur Menzeleev	East Chapel Hill	Neal Mullis
Aditya Devalapalli	NCSSM	Myra Halpin
Megan McCormick	NCSSM	Myra Halpin
Nader Moussa	Green Hope	Ruth Wormald
Brooks Noble	Ravenscroft School	John Karny
Alex Chescheir	East Chapel Hill	Neal Mullis
Brian Roberts	Sanderson	Courtney Ammons
Hunter Brooks	Durham Academy	Karen Liptay
Brendan Walters	Durham Academy	Karen Liptay
Paul Mobley	Sanderson	Courtney Ammons
William Moss	Ravenscroft School	John Karny
Megha Mathur	Enloe	Gabrielli/Smith

## PROJECT SEED PARTICIPANTS & MENTORS

[NCProjectSEED@aol.com](mailto:NCProjectSEED@aol.com)

This summer the NC-ACS Project SEED program placed 30 students in research facilities in the Triangle Area. The NC-ACS Project SEED program is funded by a generous grant from Burroughs-Wellcome Fund, supported by awesome triangle area scientist, and coordinated by Mr. Kenneth Culter (NCCU). Questions about the program can be directed to Mr. Cutler at the main project office, supported by CIIT, Centers of Health Statistics, at:

**NC-ACS Local Section**  
**CIIT-Centers for Health Research**  
**PO Box 12137 (6 Davis Drive)**  
**Research Triangle Park, NC 27709-2137**  
**919-558-1346 - Voicemail**

*The Contributions of Various Operational Parameters of the Distribution Coefficients of Solutes Using Liposome Electrokinetic Chromatography (LEKC)*  
 Maryanna Quigless, Enloe High School,  
 Mentor: Dr. Morteza Khaledi, NCSU

*Validating Bupropion as a specific catalytic probe for P450CYP2B6*  
 James Davis, Hillside High Graduate,  
 Mentor: Dr. Morris Clarke, UNC-CH

*Investigation of L-rhamnose Producing Enzymes: RmlA, RmlB, RmlC and RmlD*  
 Tiffany Williams, NCSSM,  
 Mentor: Dr. Eric Toone, Duke

*The Effect of Agrobacterium Tumefaciens and Actosyringone of Magnaporthe Grisea*  
 Amber Gaither, Enloe High School,  
 Mentor: Dr. Thomas Mitchell, NCSU

*Studies of PXR(R410A) Stability through Circular Dichroism*

Ari Sanders, Southern High School,  
Mentor: Dr. Matthew Reddinbo, UNC-CH

*Theoretical Methods of Prediction of Optical Activity: Evaluation of Efficiency/Accuracy and MM Force-Fields in [alpha] D Prediction*

LeRoy Holman, Jordan High School  
Mentor: Dr. David Beratan, Duke

*The Effect of Trehalose on Proteins: Myoglobin, Lysozyme and Concanavalin*

Adrienne Lewis, Enloe High School  
Mentor: Dr. Stefan Franzen, NCSU

*The Effect of Chiral Phosphoramidites on a Platinum-Catalyzed, Enantioselective Diene-Aldehyde-Silulborane Coupling*

Kizzmekia Corbett, Orange High School,  
Mentor: Dr. James Morken, UNC-CH

*Comparison of Pore Exclusion Size between Different Alginate Types and Grade, in Sodium Alginate Microcapsules*

Yusuf Neville, Hillside High School,  
Mentor: Dr. Emmanuel Opara, Duke

*An Assessment of the Genetic Relatedness of the Soil Fungus Rhizoctonia Solani*

Amir Morgan, Enloe High School,  
Mentor: Dr. Marc Cubeta, NCSU

*Patterns of Antibiotic Resistance of Salmonella Found at Swine Farms*

Carleda Wade, NCSSM  
Mentor: Dr. Mike Sobsey, UNC-CH

*The Effect of Various Conditions on the Formation of Guanosine and Guanosine 5'*

Monophosphate Gels  
Emily Nwakpuda, Hillside High School  
Mentor: Dr. Linda McGown, Duke

*Studies of a Beta-Hairpin Peptide Model for Amyloid Beta Aggregation in Alzheimer's Disease*

Guiane Baker, Orange High School/NCSSM  
Mentor: Dr. Marcey Waters, UNC-CH

*The Formation of Spiroketal through Cross Metathesis*

Isa Watson, Chapel Hill High School,  
Mentor: Dr. Michael Crimmins, UNC-CH

*Using Fluorescence to Observe Labeling of Rnase P Proteins*

Charles Tuck, II, Jordan High School,  
Mentor: Dr. Terrence Oas, Duke

*The Effect of Site Directed Mutagenesis on the Infectivity of Sindbis Virus*

Andrea Nowell, Enloe High School,  
Mentor: Dr. Raquel Hernandez, NCSU

*Toward Chiral Zeolitic Materials; Synthesis and Char. of Lamellar Lanthanide Phosphonates Containing Chiral Crown Ether Pendants*

Andrea Locke, East Chapel Hill High School,  
Mentor: Dr. Wenbin Lin, UNC-CH

*The Effect of Inserting a sequence on the VDR-RXR DBD Heterodimer Formation*

Bryant Price, NCSSM,  
Mentor: Dr. Daniel Gewirth, Duke

*The Effect of Liquid Carbon Dioxide on the Liquid Crystal Phase*

Chandra Harrington, E. Chapel Hill High,  
Mentor: Dr. Edward Samulski, UNC-CH

*The Effect of Ultra Violet Irradiation on the Viability of Cells*

Chelsea Thomas, Enloe High School,  
Mentor: Dr. Paul Wollenzien, NCSU

*The Development of a Novel Biocompatible Polymer*

Greg Jefferson, Hillside High School  
Mentor: Dr. Alvin Crumbliss, Duke

*The Effect of MutS protein on the Bending of DNA*

Eric McAden, East Chapel Hill High School,  
Mentor: Dr. Dorothy Erie

*The Effect of the Molecular Structure on the Optical Rotation of Chiral Azo-Benzene Polymers*

Caryn Bell, Enloe High School  
Mentor: Dr. Bruce Novack, NCSU

*Mass Accuracy in the Mass Spectrometric Analysis of Proteins*

Akeem Cheek, Hillside High School  
Mentor: Dr. Mark Grinstaff

*The Effects of Sol-Gel Architecture on Cyclen Derivatives*

Charetta Staley, Chapel Hill High School  
Mentor: Dr. Scott Wallen, UNC-CH

*Exploratory Synthesis on CZX*

Charles Carter, Enloe High School  
Mentor: Dr. James Martin

*Polymers as Gene Delivery Vehicles*

Erika Shearin, NCSSM  
Mentor: Dr. Michael Fitzgerald, Duke

*A Comparison of Antibiotic Resistant Salmonella from Surface Water and Raw Waste Sources on Swine Farms*

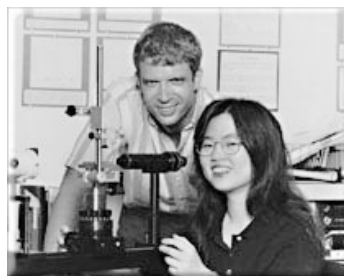
Aaron Burns, Orange High School  
Mentor: Dr. Louise Bell

*How the Active Site Mutates in Capase3 and Mutants*

Caleb Udofia, Enloe High School  
Mentor: Dr. Clay Clarke ■



### Project SEED Participants and Mentors



### Twelve Society Programs to Benefit from Fund-Raising

National Chemistry Week  
Project SEED  
U.S. Chemistry Olympiad

### State Fair

To Purchase Admission and Ride Tickets at 50% Off, go to the State Fair Online Store.

<http://store.yahoo.net/nc-statefair/>

## MATCHING GIFT FUND PROGRAM

On August 6, 2002, a milestone was reached in the Society's Matching Gift Fund (MGF) Program. Gifts and pledges received in 2002 to support eligible Society Programs totaled \$880,000. When added to the MGF totals from prior years, this figure brought the amount raised since inception to \$5.0 million, which was the limit of the original appropriation authorized by the Board of Directors in December 1994.

Twelve Society Programs – including National Chemistry Week, Project SEED, and the U.S. Chemistry Olympiad – and five endowments have benefited from the success of this fund-raising mechanism. Designed to serve as an incentive to external donors, the MGF Program provided a dollar-for-dollar match from the Society to all nongovernmental contributions of \$2,500 or more to designated Society Programs. Donors and program recipients have been uniformly enthusiastic about the Matching Gift Fund Program.

At this time, the prospect of funding for 2003 to allow continuation of the Matching Gift Fund is uncertain. While all pledges made prior to August 6 will be matched through funds from the original appropriation, funds to match new gifts and pledges are among the many budget considerations that will be reviewed by the ACS Board of Directors in December. Despite its success, the MGF Program is subject to the same scrutiny applied to other Society initiatives; and its expense must be contained within the society's annual budget targets mandated by the Board of Directors. In a recent "Comment" in Chemical & Engineering News (July 29, 2002) entitled "Time for Fiscal Restraint," the Society's current financial status and challenges are described in some detail along with the process that is being used to evaluate current programs and requests for new funding. In conjunction with the preparation of the 2003 Proposed Budget, projected MGF funding needs will be reviewed and a determination will be made as to whether a request to reauthorize the MGF Program is possible.

## Thoughts to Ponder .....

*Hope helps us see the future. Courage helps us create it.*

--Anonymus

## BIOFRONTIERS EXHIBIT



NC State Fair, Oct 18-27  
<http://www.ncstatefair.org/>

The NC-ACS Section will again host a booth in the BioFrontiers Exhibit at the North Carolina State Fair October 18-27. We feel certain that outstanding response to this activity in the past was an important factor in the Younger Chemists Committee (YCC) receiving for the third year in a row a ChemLuminary Award at the recent National ACS meeting in Boston (see article in this issue). We will need ~50 volunteers over the 10 day period to make this year's BioFrontiers Exhibit a success. We encourage all members of the Section to participate...this includes YOU. We have had wonderful participation from the YCC, Senior Chemists Committee (SCC), ACS student affiliates, NC-ACS discussion groups, and university/government/industrial scientist.

Volunteers will get free admission (including free PARKING) and also have the chance to earn a State Fair BioFrontiers 2002 POLO shirt. There will once again be a break trailer with soda, water, and a restroom for volunteers. Free lunch served by John the Greek on the 17th (the day before the event starts) at noon for all volunteers at the Fairgrounds.

Two (or more) volunteers will be working at the booth at any given time. This year, more emphasis will be placed on hands-on activities, which will include staged chemical demonstration several times a day. To volunteer visit the NC-ACS webpage

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

and look for the link to the online form.

If you have specific questions, please contact,

Darrell Coleman  
dscoleman@lilly.com  
306-2239 or

Bill Switzer  
bill\_switzer@ncsu.edu  
515-2945

## 32nd SOUTHEAST MAGNETIC RESONANCE CONFERENCE AND SYMPOSIUM

Honoring Ed Stejskal

### 2002 SEMRC

<http://www.ncsu.edu/chemistry/semrc/index.html>

Oct. 24 through Oct. 27 at the Sheraton Imperial Hotel and Conference Center in Research Triangle Park, North Carolina

The Southeast Magnetic Resonance Conference (SEMRC) provides an ideal opportunity for scientists in all areas of magnetic resonance to come together and share new applications and technique developments. The southeast has had tremendous growth in magnetic resonance research over the recent years, and some of the major national and international centers are now located in this region of the country.

This year's meeting will be particularly special, as we will gather to honor the many significant contributions that Edward O. Stejskal has made to the science of magnetic resonance.

See website for online registration form.

<http://www.ncsu.edu/chemistry/semrc/index.html>

## NATIONAL CHEMISTRY WEEK October 20-26, 2002



National Chemistry Week 2002, October 20-26. The theme for this year's activities is "Chemistry Keeps Us Clean." Join with the Local Section as they share the chemical story of the relevance of chemistry to cleaning by participating in conducting presentations, demonstration shows, and hands-on activities for the public.

## SCIFINDER® 2002

*SciFinder® 2002* offers new enterprise-wide information solutions for chemical, pharmaceutical and biomedical research scientists in a variety of research fields. SciFinder 2002, the newest release of the award-winning desktop research tool from Chemical Abstracts Service (CAS), offers new capabilities in matching their interests. Among the most important additions are analysis features for stereochemistry, new links to synthetic chemistry information and reactions and current-awareness features chemistry, experimental properties for over 825,000 substances, more reactions from 1907-1985 documents, new Panorama "pre-sets," and new "Keep Me Posted" and "Get Reference" features for sequences. More information about SciFinder can be found at

<http://www.cas.org/SCIFINDER/scicover2.html>.



A Division of the American Chemical Society



## Thought to Ponder ...

*Life is a bumpy road and laughter is your best shock absorber.*

--Anonymous

As part of the celebration, the NCACS will be conducting chemical demonstrations and hands-on activities in the BioFrontiers tent during the week of the NC State Fair. In addition, we are teaming up with staff from the NC Museum of Natural Sciences for a day (October 27th) of educational activities in celebration of NCW.

If you enjoy educational outreach activities, please contact our Chair, Susan Sumner (919) 425-3022; Paradigm Genetics. We welcome your participation!

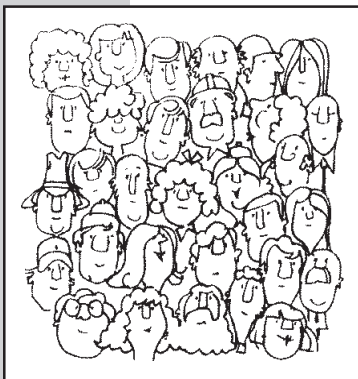
## 2002 SEMRC

<http://www.ncsu.edu/chemistry/semrc/index.html>

**National  
Chemistry Week**  
October 20-26, 2002

<http://chemistry.org/ncw>

Contact Susan Sumner  
(919) 425-3022



## WELCOME TO OUR NEWEST ACS MEMBERS

Neata S. Bass  
Melinda C. Box  
Matthew K. Brenneman  
Jonathan Lowell Bundy  
Neepa Yogesh Choksi  
Melissa Cousino  
Qizhou Dai  
Holly K. Emerson  
Del Flack  
Gary Martin Green  
Zhengming Guo  
Steven Edward Hall  
Yi Han  
Tao Huang  
Preston Hudson  
Charles A. Jones III  
Jeonghan Kim  
Mary A. Klein  
Satoshi Kubo  
Suk Joong Lee  
Xiaoxi Liu  
George Donald Lockyer Jr.  
Michael A. Luther  
Karl C. Menke  
Joshua T. Miller  
Donald J. Miller  
Pierre B. Monnet  
Jeremy B. Morgan  
Mike Owens  
Anthony Joseph Polletta  
James M. Salovich  
Robert T. Stewart  
Tonya Stockman  
David J. Styers Barnett  
Balasubramanian Thiagarajan  
Beth Thomas  
Jihong Tong  
Anssi V. Vahatalo  
Faith R. Van Horn  
Thomas Edward Walker  
Brian Wilson  
Tingfeng Yeh  
Tomoya Yokoyama  
Michael Zhou



With each mailing of the TarHelium, there are always some returned to the section (at a fee) due to an incorrect or obsolete address.

To make sure you receive your local section information on time, notify the ACS with any address changes. Just log onto

<http://center.acs.org/applications/addrupdate/addrchange.cfm>

to update your records on-line. ■

## Electronic Distribution of TarHelium?

The Local Section spends a large portion of its budget on the publication of the TarHelium. The TarHelium is the primary means of communicating with the members of the Section and for this reason the expense has always been well justified. In this modern world where "paperless" or "electronic" communication is possible, the Section is now allowing members the option of receiving an email notification indicating a new issue of the TarHelium is available online at the NC-ACS webpage. This alternative to the US mail will speed up distribution and lower the publication cost making funds available for other Section activities. For more information about receiving a "TH email notification" please visit the NC-ACS webpage at: <http://membership.acs.org/N/NCarolina/>

*Cheers, Brad Sturgeon  
TarHelium Editor*



## ADVERTISING

The TarHelium is published four times a year and all issues of the TarHelium accept and welcome advertising. The cost is \$25 per column-inch based on a 3.5 inch width; two-inch minimum. There is a 10% discount for advertising in three or more issues in a publication year which runs bimonthly from September through April.

Donations to the NC Section of the ACS help sustain Local Section activities. All contributions are tax deductible and greatly appreciated.

Contact the editor, Brad Sturgeon at :  
bes@unc.edu.





## NC-ACS Discussion Groups

### ACS Polymer Discussion Group (PDG)

[membership.acs.org/N/NCarolina/pdg/](http://membership.acs.org/N/NCarolina/pdg/)

The objectives of the Polymer Discussion Group are:

- ★ To promote polymer chemistry and physics in all aspects.
- ★ To foster the educational and professional growth of members.
- ★ To increase contacts between people engaged in polymer work in order to exchange knowledge and stimulate ideas.
- ★ To sponsor lectures, conferences, and their means to promote these objects and the general cause of polymer chemistry and physics.

All scientists, engineers, and students working in polymer-related fields are welcome to participate in the ACS Polymer Discussion Group. Please attend any or all of the meetings on the schedule below. Monthly meetings include dinner, a seminar by an invited speaker, and discussion. Meetings are held at the University Club of NC State University on the second Thursday of each month. Social hour begins at 5:30 pm, with dinner at 6:30, and the seminar at 7:30.

10/10/02 Dr. Dorian A. Canelas  
Lord Corporation

*"Properties and Toughening of Heat Resistant Thermosets Based on Unsaturated Ester Resins"*

11/14/02 Professor Kenneth A. Mauritz  
Univ. of Southern Mississippi

*"Organic/Inorganic Nanocomposites Based on Phase-Targeted Sol-Gel Processes in Block Copolymers"*

For more information or to be added to the email list, contact

Dr. Keith Dawes (NCSU)  
Telephone: (919) 515-7010  
E-mail ([keith\\_dawes@ncsu.edu](mailto:keith_dawes@ncsu.edu))

### Triangle Area Mass Spectrometry Discussion Group (TAMSDG)

[membership.acs.org/N/NCarolina/tamsdg/tams1.htm](http://membership.acs.org/N/NCarolina/tamsdg/tams1.htm)

The Triangle Area Mass Spectrometry Discussion Group (TAMS) was created to provide an opportunity for scientists involved in mass spectrometry to get together and share ideas and experiences. The group typically holds six meetings per year, which include a social time, refreshments, general announcements, and a seminar by an invited speaker.

All correspondence is through the TAMS e-mail distribution list and the TAMS website.

For more information or to be added to the email list, contact:

Daniel Morgan  
GlaxoSmithKline  
[dm19700@gsk.com](mailto:dm19700@gsk.com)

### Triangle Chromatography Discussion Group (TCDG)

[RTPnet.org/~tcdg](http://RTPnet.org/~tcdg)

The purpose of the TCDG is to maintain and promote an interest in and to provide an opportunity for discussion and exchange of information with respect to all fields of chromatography. The membership is open to anyone interested in the field of chromatography. The TCDG sponsors a number of speakers throughout the year and an annual Triangle Symposium and Instrument Exhibit. The 20th Annual TCDG Symposium and will be held on May 15, 2003.

For more information regarding this discussion group please contact

Dr. John Hines (RTI)  
Telephone: (919) 541-6647  
E-mail ([hintes@rti.org](mailto:hintes@rti.org))

**PDG CONTACT:**  
[keith\\_dawes@ncsu.edu](mailto:keith_dawes@ncsu.edu)

### NC-ACS Discussion Groups

Triangle Area Mass Spectrometry Discussion Group (TAMSDG)

<http://membership.acs.org/N/NCarolina/tamsdg/tams1.htm>

Polymer Discussion Group (PDG)

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

Triangle Chromatography Discussion Group

(TCDG) <http://RTPnet.org/~tcdg>

Triangle Magnetic Resonance Discussion Group (TMRDG)

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

Younger Chemists Committee (YCC)

<http://membership.acs.org/N/NCarolina/ycc/index.html>

**Chemical Education/High School Chemistry Teachers Discussion Group (ChemEd)**

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

**TAMSDG CONTACT:**  
[dm19700@gsk.com](mailto:dm19700@gsk.com)

**TCDG CONTACT:**  
[hines@rti.org](mailto:hines@rti.org)

### Chemical Education/High School Teachers Discussion Group (ChemEd)

*membership.acs.org/N/NCarolina/chemed*

**CHEMED CONTACT:**  
halpin@ncssm.edu

The ChemEd discussion group has been formed to disseminate information relevant to chemistry/science education. It is the hope that this discussion group will involve educators at all levels of chemical education. High school chemistry teachers are currently organizing the group, but we hope that everyone interested in chemical education will use this discussion group as a method to communicate ideas.

The group has a listserv as a means to communicate with interested individuals. To sign up for the listserv send an email to [listserv@listserv.ncsu.edu](mailto:listserv@listserv.ncsu.edu) with a message saying: subscribe ncchemed <your name>.

If you are interested in becoming involved in this discussion group please contact:

Dr. Myra Halpin (NCSSM)  
E-mail ([halpin@ncssm.edu](mailto:halpin@ncssm.edu))

### Younger Chemists' Committee (YCC)

*membership.acs.org/N/NCarolina/ycc*

**YCC CONTACT:**  
[dscoleman@lilly.com](mailto:dscoleman@lilly.com)

The YCC was developed to encourage greater participation in the ACS in the Local Section by its younger members. The YCC's primary goal is to make the ACS more accessible and relevant to the younger chemist. The YCC is committed to the following goals:

- ★ To make the ACS relevant to younger chemists
- ★ Increase the involvement of younger chemists in the ACS at all levels.
- ★ Develop mechanisms to integrate younger chemists into the profession

For more information, contact:

President: Darrell Coleman  
Eli Lilly and Co.  
E-mail ([dscoleman@lilly.com](mailto:dscoleman@lilly.com))

### Senior Chemist Committee (SCC)

*membership.acs.org/N/NCarolina/scc/index.html*

North Carolina is home to over 80 retired ACS members. Two-thirds of us reside close by the Research Triangle. More of us live in smaller communities near the Triangle, like Pittsboro, Apex, Hillsborough, Morrisville, Clinton, and Pinehurst. Some of us are newcomers who moved to the area after retiring. Others of us discovered much earlier in life how great it is here. Whether a life-long or a year-long resident, the Senior Chemist Committee could be a means of renewing old friendships and creating new ones.

If interested please contact:

Richard Theuer  
[theur@worldnet.att.net](mailto:theur@worldnet.att.net)  
(919) 844-5843

### SERMACS 2002 IN CHARLESTON, SC

A great meeting is planned for SERMACS 2002. Over 800 abstracts have been submitted. Attendance is expected to be over 1500. The Meeting Gala will be at the South Carolina Aquarium on Thursday November 14 and will be an exciting event. Complete your plans to attend the 54th SERMACS meeting November 13-16 in Charleston, SC.

Advanced on-line meeting registration closes October 30th. For registration links and more details on the meeting visit the SERMACS2002 website at:

<http://sermacs2002.cofc.edu>

The meeting will be held in the Lightsey Center of the College of Charleston and the Westin Francis Marion (387 King Street, Charleston, South Carolina 29403, 843-722-0600) and Embassy Suites Hotels (337 Meeting Street, Charleston, SC 29403, 843-723-6900). Specially priced conference hotel rooms may be booked by calling the hotels and identifying yourself as a SERMACS2002 conferee. Hotel registration ends Oct 11th.

We hope to see you in Charleston, SERMACS2002

**SERMACS 2002**  
Charleston, SC

<http://sermacs2002.cofc.edu>

SERMACS2002 Planning Committee

## Employment Aids from the Local Section

As many of you are aware, the NC Section has a web page: <http://membership.acs.org/N/NCarolina/>. This page and the links therein are intended to be a resource for chemists in the Section. There are several links of interest particularly to those seeking employment. One link has a list of companies in the Section who hire ACS members; and another links to classified ads in the local paper and to a job search service for the area as well as to several other less targeted sources. Also there are links directly to company job opening web pages where we have been able to find them and links to some of the services offered on ACS web pages.

An additional resource for the most up-to-date job postings is the NCACS listserver. This listserver is operated as a public service of the NC Section and NC State University. There is no charge to anyone. It is operated as a moderated list, which means that only the list owner can approve posted material. This prevents the list from becoming overwhelmed with inappropriate messages. Only valid job openings and meeting announcements are approved. To subscribe, address mail to: [listserv@listserv.ncsu.edu](mailto:listserv@listserv.ncsu.edu). Include a 1-line message saying: `subscribe ncacs <your name>`

The subject line is ignored and your return address is taken as the subscription address. Anyone having a valid job opening can contact Bill Switzer at: [bill\\_switzer@ncsu.edu](mailto:bill_switzer@ncsu.edu). To unsubscribe, reply to any posted message requesting that your name be removed.

Also contact Bill at the same address if you have suggestions for other links that might serve as useful resources on the web page or if you would be interested in taking responsibility for maintaining one or more pages

### Employment Web Sites

#### North Carolina State Bureau of Investigation

<http://webs.jus.state.nc.us/doj/hr/>

#### Magellan Laboratory

<http://excellentadventure.magellanlabs.com/>



News and Observer  
<http://www.trianglejobs.com/>

Research Triangle Foundation links to jobs in RTP including the following  
(<http://www.rtp.org/local/jobs/home.html>)

Aventis  
BASF  
Bayer Biological Products  
BD Technologies  
Biogen  
Chemical Industry Institute of Toxicology  
Covance Biotechnology Services Inc.  
Eisai Inc.  
Eli Lilly  
Glaxo SmithKline Inc.  
International Business Machines Corporation (IBM)  
Lineberry Research Associates  
Lockheed Martin Technical Services, Inc.  
MCNC  
National Institute of Environmental Health Sciences  
North Carolina Biotechnology Center  
Paradigm Genetics  
Research Triangle Institute  
Underwriters Laboratories Inc.  
U.S. Environmental Protection Agency

**These links can all be access through the NC-ACS web site found at:**

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

If you would like your company's employment link added to this list please send an email to Brad Sturgeon at [bes@unc.edu](mailto:bes@unc.edu) ■

### Career Services at ACS Regional Meetings

Visit the Career Resource Center at these ACS regional meetings for an array of professional development programs and services. Features may include an employment clearing house (RECH), career management workshops, one-on-one resume critiques.

Southwest Regional Meeting  
November 3-6, Austin, TX

Southeast Regional Meeting  
November 13-17, Charleston, SC

For more information, job seekers and employers may visit the ACS website

[www.chemistry.org/careers/calendar.html](http://www.chemistry.org/careers/calendar.html)

or call 1-800-227-5558 x6208.

**Employment Aids  
Available from  
NCACS**

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Bradley E. Sturgeon, Editor  
4400 Currie Court  
Raleigh, NC 27613

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## Executive Committee:

<i>S. J. Sumner</i> (CIIT), Chair '02	558-1343	sumner@ciit.org
<i>J. A. Myers</i> (NCCU), Chair-Elect '02	560-6461	jmyers@upo.nccu.edu
<i>S. Levine</i> (NCSU), Secretary '02-'03	676-3740	naturpix@mindspring.com
<i>J. T. Bursey</i> (ERG), Treasurer '01-'02	468-7926	joan.bursey@erg.com
<i>B. E. Sturgeon</i> (UNC), TH Editor '00-present	962-1616	bes@unc.edu
<i>A. L. Crumbliss</i> (Duke), Councilor '01-'03	660-1540	alc@chem.duke.edu
<i>R. A. Palmer</i> (Duke), Councilor '01-'03	660-1539	rap@chem.duke.edu
<i>J. L. Chao</i> (IBM), Councilor '00-'02	543-3054	jlchao@us.ibm.com
<i>E. C. Bigham</i> (GSK), Councilor '02-'04	483-9844	ecb12781@gsk.com
<i>R. W. Morrison, Jr.</i> (NCSU), Councilor '02-'04	515-2549	robert_morrison@ncsu.edu
<i>R. M. Forbis</i> (UNC), Alt. Councilor, '02-'04	962-2096	dick_forbis@unc.edu
<i>S. T. Purrington</i> (NCSU), Alt. Councilor, '01-'03	515-2864	purringt@chemdept.chem.ncsu.edu
<i>E. T. Samulski</i> (UNC), Alt. Councilor, '01-'03	962-1562	et@unc.edu
<i>W. Powell</i> (Meredith), Alt. Councilor '00-'02	760-8619	powellw@meredith.edu
<i>W. L. Switzer</i> (NCSU), Alt. Councilor '02-'04	515-2945	bill_switzer@ncsu.edu
<i>G. H. Wahl, Jr.</i> (NCSU), Past Chair '99	515-2941	george_wahl@ncsu.edu
<i>C. M. Balik</i> (NCSU), Past Chair, '01	515-2126	balik@ncsu.edu
<i>M. M. Bursey</i> (UNC), Ex Officio	493-3025	mbursey@acs.org
<i>K. A. Cutler</i> (NCCU), Project Seed Ex Officio	530-7004	kcutter@wpo.nccu.edu
<i>E. L. Eliel</i> (UC), Ex Officio	962-6198	eliel@email.unc.edu
<i>T. A. Lehman</i> (UNC-CH), Ex Officio	966-0581	talehman@intrex.net
<i>D. G. Morgan</i> (GSK), TAMS, Ex Officio	483-4291	dm19700@gsk.com
<i>D. Canelas</i> (Lord), PDG, Ex Officio	469-2500	dorian_canelas@lord.com
<i>J. Hines</i> (RTI), TCDG, Ex Officio	541-6647	hines@rti.org
<i>T. M. O'Connell</i> (GSK), TMRDG, Ex Officio	483-1535	tmo89509@gsk.com

**Dated Material - Please Deliver Promptly**

## 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. The Deadline for each publication is usually the first of the month prior to publication.

### 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](mailto:bill_switzer@ncsu.edu). Very occasionally openings outside of the NC Section are posted. If you wish to subscribe, address mail to: [listserv@listserv.ncsu.edu](mailto:listserv@listserv.ncsu.edu). The subject field is ignored, but in the message field type: `subscribe ncacs first_name last_name`. Your name is required; spaces are allowed. 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](mailto:bill_switzer@ncsu.edu). ■