



# The TarHelium

Volume 31, Number 2

November, 2000



## STATE OF THE SECTION

- *NY-YCC Wins National ACS Award*
- *Project Seed Students Meet with Colin Powell*
- *Report on TAMS Vendor Night*
- *National Chemistry Week*, November 5-11
- *NC State Fair Report*
- *Letters to the Editor*
- *Technical programs* run by the following discussion groups: Triangle Area Mass Spectrometry Discussion Group (TAMSDG), Polymer Discussion Group (PDG), Triangle Chromatography Discussion Group (TCDG), Triangle Magnetic Resonance Discussion Group (TMRDG), Triangle Molecular Modeling Discussion Group (TMMDG) and Younger Chemists Committee (YCC).

## NC-YCC Receives National Chemluminary Award

The North Carolina Section's new YCC committee received a Chemluminary Award at the recent Fall National Meeting of the American Chemical Society in Washington as the Best New YCC Local Section. This first place finish was capped with a poster presentation prior to the evening's award ceremony, followed by dessert and dancing in the Grand Ballroom. Jim Chao, councilor for the section attended the reception along with Dwayne Coleman and Celine Taboy shown in front of the poster detailing past events held by YCC and future plans. Celine Taboy received the award on behalf of the YCC committee from the President of the Society. A trophy and a plaque were unveiled to the members of YCC at their monthly meeting in September by Darrell Coleman, president of the YCC and Bradley Sturgeon, Chair of the NC ACS Section. Great job!

The YCC Committee (Younger Chemists Committee) is designed to appeal to younger members, but does not have any age restrictions. Due to the success of this fast growing committee, the Executive Committee is looking at forming a similar committee for retired chemists. If you are interested in helping to form such a committee, please contact Jim Chao at [jlchao@us.ibm.com](mailto:jlchao@us.ibm.com).

*Submitted by:*  
Dr. James Chao  
IBM Microelectronics Division



*Pictured (from left to right): Dwayne Coleman, Celine Taboy and Jim Chao*

## INSIDE THIS ISSUE

NC-ACS Project SEED .....	2
National Chemistry Week .....	2
New ACS Members .....	3
<b>BALLOT</b> (be sure to cast your vote) .....	3
Meet the Candidates .....	4
NC-ACS at the State Fair .....	6
Southeast/Southwest Regional Meeting .....	6
Letters to the Editor .....	6
NC-ACS Discussion Group Reports .....	7
"In Memory of a Friend" .....	9
SERM2004 Chairs Sought .....	9
Job Vacancies and Advertising .....	10

# TAKE OUT A BIG AD

All four issues of the TarHelium will accept 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 [sturgeon@ncssm.edu](mailto:sturgeon@ncssm.edu)

## NC-ACS Project SEED Students Travel to National Meeting

Twenty-three of the twenty-seven Project SEED students traveled to Washington, DC to attend the 220th National ACS meetings. While at the meeting they presented their scientific research during the Sci-Mix event. As an interesting note, the NC Section SEED student posters made up approximately half of all SEED posters presented. In addition to spending time at the meeting the SEED students had an



Students from the NC Local Section were the only high school students selected from among SEED students from around the country, to meet the General Colin Powell at the ACS Convention in Washington, DC. From Left to Right: Eddie Perry, Al Uminum, Kiley Brown, Marcus Hill, General Powell, Isis Valledares, Jesse McCoy II, Ebony McRae, and Shelton Jones

opportunity to visit the Washington Mall museums, the NIH campus in Bethesda, the Chemistry Department at Howard University, and the Capital Building (guided tour arranged by NC Congressman David Price). Seven of the NC SEED students were chosen to meet with Army Gen. Colin L. Powell. The students pictured were the only Project SEED high school students selected to meet Gen. Powell.



SEED Students Visit the Capital Building

The NC Section Project SEED program starts accepting applications in November for research to be conducted in the summer of 2001. For more information please visit the NC Section web page and/or contact Mr. Kenneth Cutler (NCProjectSEED@aol.com) for specific dates and application details.

If you are interested in being a scientist/mentor for a SEED student please contact Mr. Cutler.



**National Chemistry Week  
November 5-11, 2000**

**E**vents Schedule for  
2000-"Kitchen Chemistry"

[www.acs.org/NCW](http://www.acs.org/NCW)

**Nov 5**  
1-4 pm

**Durham Museum of  
Life and Science**

- \* Hands on Experiments!
- \* Live Demonstrations !
- \* Magic Shows !

*Great way for students to gain extra credit (ACS will validate participation)*

For additional information, contact Camille Solbrig at 319-7765 or [camsol@aol.com](mailto:camsol@aol.com)

# WELCOME

Please welcome our newest ACS members !!

Michael J. Alberti  
 Samiul Amin  
 Jennifer L. Blackburn  
 Hakim Boukhalfa  
 Dawn I. Braithwaite  
 Richard Charvet  
 Ta Yung Chen  
 Dr. Tianrong Cheng  
 Dr. James D. Colandene  
 Suraj Dhungana  
 Brandon J. Fetterolf  
 Meghan M. Flaherty  
 Devin Flowers  
 Brandi M. Ford  
 Michael S. Gardner  
 Tarek H. Ghaddar  
 Stephanie L. Harrelson  
 Anita J. Harrison  
 Aaron M. Hartel  
 Rebecca C. Holmberg  
 Dr. Princy A. Jesudason  
 Bridgette M. Jones  
 Dr. John A. Lamerdin  
 Paul R. Latta III  
 Dr. Dongil Lee  
 Anthony M. Leone  
 Yan Li  
 Charles Liu  
 Stephanie M. Marxer  
 Dr. Guoning Mo  
 Meredith T. Morgan  
 Leslie D. Morton  
 Brian J. Nablo  
 Latha G. Nair  
 Cynthia M. Norris  
 AnDr.ew N. Nyabwari  
 Dr. Steven W. Peretti  
 Michael T. Pilato  
 Jaya Prabhakaran  
 Mark J. Rashkin  
 William C. Ray  
 Mary Ann Rector  
 Richard G. Robinett  
 Hope Shand  
 Dr. Xuling Shi  
 Hunwoo Shin  
 Robert S. Steele Jr  
 Ming Su  
 Chris Terry  
 Timothy Thompson  
 Barbara Jill Trafton  
 Stephen M. Trzaska  
 Dr. Zeren Wang  
 Rose V. West  
 Joseph I. Wirgau  
 Dr. Bradley H. Wolfe  
 Zenghong Zhang  
 Bo Zheng  
 Luis C. Alves  
 Marlin George Bensinger  
 Dr. Chad J. Booth

Deborah Leigh Boxall  
 Leonardo A. Cabana  
 Thomas Stokeley Coleman  
 Dr. Stephen C. Davis  
 Betty Cep Diaddigo Gailbreath  
 Dr. Bruce Eaton  
 Norman Jay Glassbrook  
 Shyi Tai Jan  
 David G. Jones  
 Chrissy A. Leonard  
 Karen S. Liptay  
 Phoebe Shea Mathis  
 Dr. Brian N. Meyer  
 Lisa Milstein  
 Dr. Carolyn Mottley  
 Najih A. Naser  
 Robert Francis Piccoli  
 Monica L. Reid  
 Jennifer L. Remy  
 Dr. Michael Scannell  
 Paul Stiles  
 Masayuki Takahashi  
 Dr. Edward A. Tyczkowski  
 Susann L. Upham  
 Dr. Ephraim Woods III  
 Stefan Zauscher

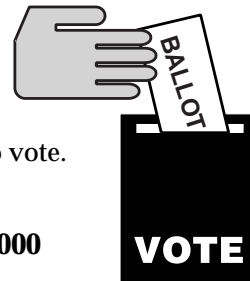


With each mailing of the TarHelium, there are always some returned to the section (at a fee) due to an incorrect or obsolete address.

To make sure you receive your local section information on time, notify the ACS with any address changes. Just log onto <http://www.acs.org> to update your records on-line.

## Ballot

The biographies of the candidates may be found beginning on the following page. Only ACS members are eligible to vote.



**Voting Deadline:**  
**Postmarked by November 22, 2000**

Place your ballot in a plain, sealed envelope and place the sealed envelope in a second envelope. The outer envelope **must be signed and your name printed** so that the Nominating Committee can verify your membership. Mail the ballot to:

W. L. Switzer, Nominations Chair  
 Chemistry - 8204  
 North Carolina State University  
 Raleigh, NC 27695-8204

### 2000 BALLOT

**Chair-Elect:** (vote for one):

- Susan Sumner
- \_\_\_\_\_

**Treasurer:** (vote for one):

- Joan Bursej
- \_\_\_\_\_

**Councilor:** (vote for two):

- Alvin Crumbliss
- Richard Palmer
- \_\_\_\_\_

**Alternate Councilor:** (vote for two):

- Ray A. Dickie
- Edward T. Samulski
- Suzanne Purrington
- \_\_\_\_\_

# Meet the Candidates

## CHAIR-ELECT

### *Susan Sumner*

**D**r. Susan Sumner has been on the scientific staff at CIIT, a not-for-profit research institute located in the Research Triangle Park, since 1989. Her research at CIIT has resulted in numerous publications related to investigating biochemical mechanisms of chemicals used in agricultural products and industrial settings. Dr. Sumner would like to contribute to the Local Section American Chemical Society (ACS) by serving as chair-elect, where she would emphasize programs aimed at increased membership, education, and increased communication between chemists and other scientific disciplines. She has previously served as a board member for Chemical Research in Toxicology, on the executive committee for the Triangle NMR group, as an adjunct faculty member at North Carolina State University (NCSU), and has co-chaired or organized sessions for the ACS Regional Meeting, Triangle NMR group, Society of Toxicology, or American Association for Cancer Research. Dr. Sumner received a PhD in Chemistry from NCSU in 1986, where she conducted graduate work with Dr. Charles Moreland using nuclear magnetic resonance spectroscopy (NMR) for determining three dimensional structures of narcotics. She was a post doctoral fellow at the National Institute of Health in Bethesda Maryland, and conducted research using NMR spectroscopy for understanding the receptor selectivity of peptides. Dr. Sumner is married to a biochemist, Dr. Timothy Fennell, and has two children.

## TREASURER

### *Joan Bursey*

**D**r. Bursey received her Ph. D. from the University of California at Berkeley (1969) and spent two years as a post-doctoral fellow at the University of North Carolina in Chapel Hill. Upon marrying her post-doctoral advisor, she left UNC and accepted a position at the Research Triangle Institute where she worked for 14 years in areas of biomedical and environmental mass spectroscopy and contract management. She moved from RTI to Radian Corporation where she worked for 12 years before accepting her current position as a Project Manager at Eastern Research Group. She is a frequent participant in EPA review panels for Competitive Cooperative Agreements and Small Business Innovative Research awards.

Dr. Bursey has been active in the Local Section and is the current Treasurer. Dr. Bursey's husband, Maurice, has been active in the local section for more than thirty years,

has been a member of the National Executive Board of the American Chemical Society for approximately eight years and is retired from the Chemistry faculty of UNC. The Burseys have two college-age children, who are both Music Majors undoubtedly because both their parents are scientists.

## COUNCILOR

### *Alvin L. Crumbliss*

**P**rofessor of Chemistry, Duke University, Al Crumbliss has been a member of the Duke University Chemistry Department Faculty since 1970. He is currently Professor of Chemistry and has held various administrative positions including Chairman (1991 -1995) and Director of Undergraduate Studies (1979 - 1982). Al has held visiting faculty positions at the Université Paris - Orsay (1978, 1985, 1989), Oxford University (1985), Ecole Européenne des Hautes Etudes des Industries Chimiques de Strasbourg (1995), Ecole Nationale Supérieure de Chimie de Paris (1995), and Université J. Fourier de Grenoble (1996, 1999). He has been an invited lecturer at numerous international meetings and was the Swiss Universities Troisième Cycle Lecturer in Inorganic Chemistry (1999). Honors recognizing his research activities include a NATO Senior Scientist Fellowship (1978), Duke University Scholar - Teacher of the Year Award (1987), and a twelve month competitive research professorship co-sponsored by the French Academy of Science, Centre National de la Recherche Scientifique, and Elf-Aquitaine (Professeur de l'Académie, Chaire Elf - Académie des Sciences, 1995). ACS activities at the national level include membership on the Canvassing Committee for the ACS Award for Dist. Service in the Advancement of Inorganic Chemistry (1998 - 2001), Editorial Advisory Board of Inorganic Chemistry (1999 - 2002), Ad Hoc Task Force to Monitor Accounts of Chemical Research (1994 - 95), International Activities Committee (1999 - 2001) and Councilor (1998 - 2000). At the local level he has served as Chair of the NC Sectional Conference (1988), Symposium Co-Organizer (1988), Chairman of the NC Section, ACS (1989), Executive Committee (1988-91; 1998 -2000), and ad hoc Site Selection Committee for SERM 2004 (2000).

### *Richard Alan Palmer*

**R**ichard Alan Palmer was born November 13, 1935 in Austin, Texas, where he lived until 1957. He received the Bachelor of Science Degree in Chemistry from the University of Texas at Austin in June, 1957, after which he entered on three years active duty in the U.S. Navy. In September of 1960 he entered

*(continued on page 5)*

# Meet the Candidates

## **Richard Palmer** (continued from page 4)

graduate school at the University of Illinois and was a University Fellow during 1960-61 and 1961-62. During 1962-63 he was a Socony-Mobil Fellow and during 1963-64, the recipient of the August Kochs Fellowship. His dissertation research, under the late T. S. Piper, was in the area of stereochemistry and electronic spectra of transition metal compounds. He completed his graduate work in 1964 (Ph.D., 1965) and remained at Illinois an additional year as a postdoctoral fellow. In 1965-66 he was an NIH postdoctoral fellow working in the laboratory of C. J. Ballhausen at the University of Copenhagen. In September, 1966 he joined the faculty of the Chemistry Department of Duke University as Assistant Professor. In 1971 he was promoted to Associate Professor and in 1978 to Professor. He served as Director of Graduate Studies in Chemistry from 1979 to 1982 and has been Director of the Chemistry for Executives program since 1992. While on Sabbatical leaves, he has held visiting appointments at the University of Texas, Austin (1974), The University of Virginia (1981) and Ecole Superieure de Physique et de Chimie, Paris (1981 and 1989). He is a year 2000 recipient of an Alexander von Humboldt Senior Research Award.

He serves on the National Council of the American Chemical Society and the Editorial Board of Applied Spectroscopy. He is a member of The Society for Applied Spectroscopy, The Coblenz Society, The Society of Sigma Xi, Phi Lambda Upsilon, and Phi Beta Kappa. His research interests are in the fields of infrared, visible and UV spectroscopy and the structure of coordination compounds. Current research projects include work in the following areas: Infrared spectroscopy of surfaces and interfaces using photothermal and reflectance techniques; photoacoustic and photothermal spectroscopy, and time-resolved and phase-resolved vibrational spectroscopic characterization of polymer films, liquid crystals, heme proteins and transition metal complexes.

He is the coauthor (with W. E. Hatfield of "Problems in Structural Inorganic Chemistry," W. A. Benjamin, 1971, and of over 120 research publications.

## ALTERNATE COUNCILOR

### **Ray A. Dickie**

**R**ay Dickie is a graduate of the University of North Dakota (B.S.Chem) and the University of Wisconsin (Ph.D., physical chemistry). He was a post-doctoral research fellow at Glasgow University and worked at Stanford Research Institute (now SRI International) before joining the Ford Motor Company Scientific Research Laboratories in 1968. At Ford, his research interests centered on automotive paints and adhesives

and related areas of polymer science. He recently retired from Ford and relocated from Michigan to North Carolina. Ray Dickie has served ACS as Chair of the ACS Division of Polymeric Materials, General Secretary of the Macromolecular Secretariat, and Councilor for the Detroit Local Section. As a member of the ACS Council, he has served on the Committee on Constitution and Bylaws and the Committee on Committees. In addition to his ACS activities, Ray Dickie is Editor of Journal of Coatings Technology (a publication of the Federation of Societies for Coatings Technology) and is currently President of the Adhesion Society.

### **Edward T. Samulski**

**E**d Samulski has his B.S from Clemson University (Textile Chemistry) and Ph.D. from Princeton where he work with Arthur Tobolsky on liquid crystalline polymers. After postdoctorals in Groningen and Austin he took an assistant professorship at the University of Connecticut where he used deuterium NMR and eventually created a new application of this technique which he called "Rheo-NMR"-detecting shear-induced phenomena in polymer fluids and liquid crystals. In 1988, the University of North Carolina at Chapel Hill recruited him to start its polymer chemistry program, now one of the top programs of its kind in the country. On June 30, 2000 he concluded a five-year stint as Chair of the UNC-CH's department of chemistry. He currently holds the Cary Boshamer Professorship at UNC-CH. Some additional administrative assignments held by Samulski are tabulated below:

- 1997 Chair Polymer Gordon Conference, Ventura, CA
- 1990 Chair, Committee on Liquid Crystalline Polymers, NMAB, National Academy of Sciences
- 1985 Founding Editor (with G. R. Luckhurst) of the journal LIQUID CRYSTALS
- 1978 Chairman, Gordon Conference on Liquid Crystals, Santa Barbara, CA
- 1976 President, University of Connecticut chapter of Sigma Xi

### **Suzanne Purrington**

**S**uzy has been at NCSU since 1976. She is currently professor emeritus. Suzy has been active in the Fluorine Division of the American Chemical Society as well as the local NC Section. She served the local Section as Secretary-Treasurer in 1974, Chairman in 1977 and both Councilor and Alternate Councilor since 1989.





**NC-ACS at the State Fair** - The State Fair was a huge success. The Section presented robots to demonstrate the state of the art combinatorial chemistry. Computers were available to access the chemistry related sites for education. Shows were performed every 45 mins. Demonstrations included states of matter using dry ice and liquid nitrogen which electrified crowds. Also, acidity of common drinks was determined using pH indicators. YCC and ACS members at large were in full force volunteering throughout the week enticing large crowds that were the jealous envy of all other booths. Attendance at the Cyberspace Exhibit is officially estimated to be 167,655. Special Thanks to all of the volunteers at the State Fair CyberSpace Exhibit - **Lab Corp.** (Mimi Y. Coker);

Carolyn Owens; **Meredith College** (Allison M. Pople); **BASF** (Katherine Sturgeon); **IBM** (Jim Chao); **Glaxo Wellcome** (Mark Sommerville, Mike Franklin, Lisa Brinkman, Jim Kenndy); **NC School of Science and Math** (Brad Sturgeon); **Sphinx Pharmaceuticals** (Darrell Coleman, Rebecca A. Taylor, Chris Lowden, Ivan Jewett, Kathryn E. Lawrence, Matt S Clapham, Jon Huber); **NC State University** (Duncan Taylor, Wes Gordan, Bill Switzer, Roger Sullivan, Sol Levine, Maury Balik, Cristin Keary); **University of North Carolina, Chapel Hill** (Steven J. Taylor, Luke Tolley, Sherrie Settle, Jonathan Madren, Jonathan Bass, Laura K Schoenbachler, Matt Monroe, Mary Kate Boggiano, Amy E. Collins, Erica D Dawson, Rebecca Holmberg); **Bayer** (Pete Vandenberg, Karin Pihel); **Polymer Group, Inc** (John H. Walton); **USEPA** (Michele A. Yacopucci, Ken Krebs); **USEPA/NC SU** (Karen Yeowell); **Duke University** (Richard Palmer, Trang U. Vo, Stephen Trzaska, Celine Taboy, Samila H. Mihindukulasuriya, Laura Lamb, Jen Griffiths, Meghan Flaherty, Michael Carnahan, Amy Beilstein, Lei L An)

A special note of thanks to the following people who gave EXTENSIVELY of their time and efforts: **Bill Switzer** of NCSU volunteered on 20 shifts and probably put on at least 80 - 45 minute chemistry demonstrations. **Darrell Coleman** of Sphinx Pharmaceuticals was the primary organizer of the event (in conjunction with Bill Switzer and Jim Chao) and volunteered for 14 shifts, most of the time doing demonstrations. **Celine Taboy** of Duke University who volunteered for 7 shifts, **Mimi Y. Coker** and **Ken Krebs** each of whom volunteered for 4 shifts.



Darrell Coleman attracts large numbers of youngsters with a dry ice demonstration.



Bill Switzer used liquid nitrogen to test his hypothesis that parents of teenagers have nerves of steel.

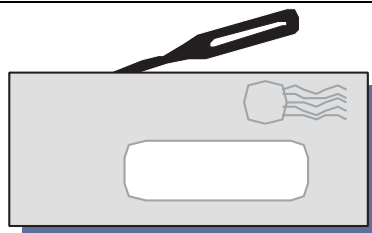
## Southeast/Southwest Regional Meeting - December 6-8, 2000

Register NOW for the Combined Southeast/Southwest Regional Meeting - "New Chemistry for the New Century". Don't miss this meeting to be held in New Orleans December 6, 7, & 8, 2000 at the Hyatt Regency Hotel. The program includes 38 symposia in the following 9 divisions: Chemical Education, Polymers, Cellulose, Paper and Textiles, Biochemistry, Medicinal, Analytical, Organic, Inorganic, and Physical Chemistry and one undergraduate research program that will consist of poster and oral presentations. In addition to expanding your professional horizons, there are also the many fine restaurants and entertainment facilities in New Orleans.

**Abstract Deadline:** October 1, 2000

**Advanced Registration Deadline:** November 15, 2000

For a copy of the registration form visit the website:  
<http://www.chem.uno.edu/acsmeeeting>



## LETTERS TO THE EDITOR

The YCC members would like to congratulate the students of Project SEED. We were extremely impressed and pleased by the quality of your posters and the professionalism and eagerness with which you answered our questions at the National ACS meeting. We also want to extend our thanks to Ken Cutler and his team for their effort and enthusiasm running the program. We look forward to seeing next year's poster presentations and encourage all NC-ACS members able to support the project to mentor one or two students in their laboratory when the time comes next year. Once again congratulations!

Céline Taboy  
and the NC-YCC



## NC-ACS Discussion Groups



### NC-ACS Discussion Groups

Triangle Area Mass Spectrometry Discussion Group (*TAMSDG*)  
 Polymer Discussion Group (*PDG*)  
 Triangle Chromatography Discussion Group (*TCDG*)  
 Triangle Magnetic Resonance Discussion Group (*TMRDG*)  
 Younger Chemists Committee (*YCC*)  
 Chemical Education/High School Chemistry Teachers Discussion Group (*ChemEd*)

#### Triangle Area Mass Spectrometry Discussion Group

The Triangle Area Mass Spectrometry discussion group held its annual "Poster and Vendor Night" on Thursday, Oct 5 at GlaxoWellcome. Over 110 attendees from across the state participated in the event. We had attendees from as far away as Wilmington to Charlotte. Thirty-two posters covering a varied array of disciplines using mass spectrometry were presented. Topics ranged from proteomics to environmental and included several graduate student posters from UNC Chapel Hill and UNC- Charlotte. For a list of poster titles, please visit the TAMS website at <http://membership.acs.org/N/NCarolina/tamsdg/tams1.htm>. Fifteen vendors participated in the show and are listed below. Additional photos from the event will be available on the website.



Representatives from Agilent and Cohesive Technologies, two of the fifteen sponsoring vendors

VENDORS at the show: Micromass, Waters, Agilent, JEOL, MetaChem, Cohesive Technologies, Bruker, Thermoquest, Hitachi, SciQuest, Gilson, Applied BioSystems, Leco, Shimadzu, Advanced Chemistry Development



Representatives from Applied Biosystems

Membership to TAMS is free and anyone can join by sending an e-mail to Daniel Morgan at: [dm19700@glaxowellcome.com](mailto:dm19700@glaxowellcome.com)

#### Triangle Chromatography Discussion Group (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 18<sup>th</sup> Annual Symposium will be held on May 17, 2001. Ted Provder will present a noontime seminar entitled "Application of size-exclusion chromatography to product R & D and problem solving" on January 11, 2001 at the Camille Dreyfus Auditorium, Research Triangle Institute, RTP. For more information regarding this discussion group please visit the NC-ACS website or directly at <http://rtpnet.org/~tcdg/index.html>

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

The ChemEd discussion group was formed to disseminate information relevant to chemistry/science education at all levels. It is our hope that this discussion group will involve educators at all levels of chemistry education. One common problem among high school teachers is the lack of scientific equipment. It is a major goal of this group to facilitate exchange of such equipment.

The group has recently setup a listserv as a means to communicate with interested individuals. To signup for the listserv send an email to [listserv@listserv.ncsu.edu](mailto:listserv@listserv.ncsu.edu) with a message saying

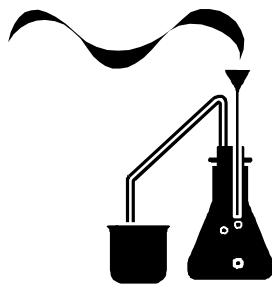
subscribe ncchemed< your name>

The subject line is ignored. The list is moderated and hidden to minimize the risk of receiving inappropriate messages and "span" because of this list.

If you are interested in becoming involved in the discussion group, please contact Dr. Myra Halpin at [halpin@ncssm.edu](mailto:halpin@ncssm.edu)

### Triangle Magnetic Resonance Discussion Group (TMRDG)

The goal of the Triangle NMR Discussion group is to promote interactions and foster a stimulating and collaborative environment for the local NMR community. The Triangle NMR Discussion Group is an American Chemical Society Group of scientists interested in all areas of magnetic resonance, working in the North Carolina area. Their web page (<http://membership.acs.org/N/NCarolina/tmrdg/>) will keep members and other interested scientists informed of upcoming TriMR events as well as local seminars.



### ACS Polymer Discussion Group

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

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 to meet other local polymer scientists in industry

and academia. 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. For more information, to make dinner reservations, or to be added to the email list, contact Marlene Hontz (469-2500 ext. 2127, email: [marlene.hontz@lord.com](mailto:marlene.hontz@lord.com)).

### 2000 Meeting Schedule

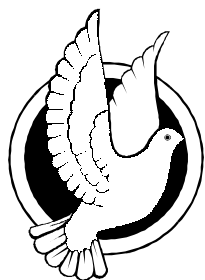
- Nov 9 Harald W. Ade, NCSU, Department of Physics  
"Dynamics and Morphologies of Phase Separating Polymer Thin Films"
- Dec 14 Dr. Yves Deslandes (National Research Council  
Canada; Ottawa, Ontario)  
"Applications of ToF-SIMS and XPS to  
Polymers and Materials"
- Jan 11 Ted Provder (Polymer and Coating  
Consultants, Olmstead Falls, Ohio)  
"SEC Determination of Absolute MWD and  
Branching by Use of Molecular Size Sensitive  
Detectors"

### Younger Chemist Committee (YCC)

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 programs are designed to provide informative lectures and discussions relevant to YCC members. At this time, we plan to have a meeting at least once a quarter. Our group will be involved with National Chemistry Week and the NC State Fair as well as other projects that promote Chemistry in the Section. More information about YCC can be found on the NC-ACS website or by emailing Darrell Coleman at [coleman\\_darrell@lilly.com](mailto:coleman_darrell@lilly.com).



## In Memory of a Friend



### Charles Kilgo Bradsher 1912-2000

Dr. Charles Kilgo Bradsher, James B. Duke Professor Emeritus of Chemistry at Duke University, died Monday, October 9 in Durham, NC at the Duke Medical Center at age 88. Dr. Bradsher was a native of Petersburg, VA, where he was born on July 13, 1912. His parents Elizabeth Muse and Arthur Bradsher lived in Durham for many years, and Charles was in the first class (1933) to graduate from Duke University after the school took that name. While at Duke he lettered in track in the half mile, receiving the Robert E. Lee Prize as a scholar-athlete, and graduated in Phi Beta Kappa, AB, with honors in chemistry. He then entered graduate school at Harvard University and earned his MA and PhD, working with Louis F. Fieser. After postdoctoral fellowships at the University of Illinois, Urbana, with R. C. Fuson, he returned to Duke as Instructor of Chemistry in 1939, where he began his academic research career in the study of polynuclear aromatic hydrocarbons. He was promoted to Assistant Professor in 1944, Associate Professor, in 1949, Professor, in 1956, and received the distinction of James B. Duke Professor, in 1965. At Duke he served as Director of Graduate Studies in Chemistry from 1954 to '65, Chairman of the Chemistry Department from 1965 to '70 and Chairman of the University Research Council from 1968 to '77. He was Chairman of the Department during the planning and construction of the Paul M. Gross Laboratory, which the Department first occupied in 1969. He retired from the active faculty in 1979.

In 1975 Dr. Bradsher launched the innovative program of basic chemical education for non-technical leaders of the chemical industry, *Chemistry for Executives*, and served as its Director for 10 years. He continued to work with this program *pro bono* as Assistant Director for the next 12 years. *Chemistry for Executives*, now in its 27<sup>th</sup> year, has had over 730 participants from over 150 companies worldwide and continues to provide chemical literacy to non-chemist decision makers in the industry. In 1995, two years before his second retirement (from *Chemistry for Executives*) he received the Malcolm E. Pruitt Award from the Council for Chemical Research in recognition of his contributions to the health of the academic-industrial interface through the *Chemistry for Executives* program.

Dr. Bradsher's research in polynuclear aromatic hydrocarbons, later extended into the field of polycyclic aromatic heterocycles, and spanned work on nitrogen heterocycles, cyclodehydration and benzoquinolinium chemistry, producing 221 publications over the period 1936 to 1987. During his career at Duke, he directed the

research of over 50 PhD candidates and numerous postdoctoral associates. In recognition of his research he was selected the North Carolina Distinguished Chemist in 1980 by the North Carolina Institute of Chemists, and in 1988 he received the Herty Medal awarded by the Georgia Section of the American Chemical Society. During Sabbatical leaves from Duke he held visiting appointments at Leiden University (1951-52) and at the Federal Institute of Technology in Zurich (1959-60). He was Chairman of the Gordon Research Conference on Organic Reactions and Processes in 1958 and was a member of the Editorial Board of the *Journal of Heterocyclic Chemistry* from 1969 to '76. He joined the American Chemical Society in 1938 and remained an active member until his death. He was active in the affairs of the North Carolina Section of the ACS and was Chairman of the Section in 1950. He was also a member of the Royal Netherlands Chemical Society, the Royal Society of Chemistry (London) and the American Association for the Advancement of Science, as well as the Society of Sigma Xi.

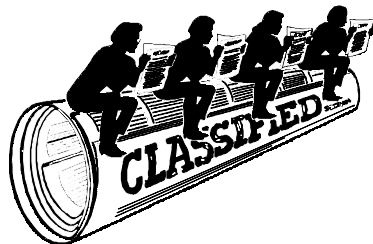
Charles Bradsher was married to the late Dorothy Tideman Bradsher for over 60 years. They are survived by one son, Thorston T. Bradsher of El Cerrito, CA; two daughters, Catherine B. Dunnagan of New Brighton, MN and Marien B. Bradsher of St. Paul, MN; four grandchildren and two great grandchildren.

## NC Section Still Seeking SERM 2004 Committee Chairs

Although it will be a couple of years before planning becomes really intense, the NC-ACS Executive Committee is actively looking for people who are interested in working on the planning committee for Southeast Regional Meeting of the American Chemical Society, (SERM04). The most urgent position to identify is General Chair and to identify the meeting site. Ad hoc committees have been formed to search for a general chair. There are many opportunities for personal and professional benefit. Please contact ACS Section Chair: Brad Sturgeon to express an interest: [sturgeon@ncssm.edu](mailto:sturgeon@ncssm.edu).

Based on our experience from the SERM 1984 and 1998 meetings, an approximate job description of the positions can be found at:

[http://membership.acs.org/N/NCarolina/serm\\_job\\_descriptions.html](http://membership.acs.org/N/NCarolina/serm_job_descriptions.html)



## JOB VACANCIES AND ADVERTISING

### 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 jobs 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@ncsu.edu](mailto: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.

### QA CHANGE CONTROL COORDINATOR, (Clayton, NC)

Administers the change control system for facilities, equipment, utilities, controls, methods, commodities and processes. Coordinates cross functional with QA project managers, area experts, engineers or contractors to ensure compliance with corporate standards and with regulatory requirements and to ensure technical and scientific adequacy. For more details visit:

<http://www.bayerpharma-na.com/careers/>

### PRINCIPAL ASSOCIATE RESEARCH SCIENTIST (Clayton, NC)

This position provides analytical support for the development of new Biological Products. Responsibilities include development and validation of analytical methods for protein characterization. A Ph.D. or equivalent experience in chemistry or biochemistry is required. In depth knowledge of protein chemistry and protein analysis is expected. The position requires a broad background and method development experience in various analytical techniques including HPLC, GC, CE, IC, enzymatic and immunoassays. Excellent oral and written communication skills are required. For more details visit:

<http://www.bayerpharma-na.com/careers/>

NOVOCONTROL, the world leader in Broadband Dielectric Spectroscopy, offers advanced turnkey instrumentation for dielectric and impedance spectroscopy with precise temperature control.

With our instruments we cover a broad frequency range from 3  $\mu$ Hz to 1.8 GHz and a temperature range from -160°C to +500°C.

For more information please contact:

NOVOCONTROL America, Inc.  
Dr. Joachim Vinson  
phone: 1-877-639-9323 (toll free)  
fax: 1-919-639-7523  
e-mail: [vinson@ntwrks.com](mailto:vinson@ntwrks.com)  
<http://www.novocontrol.com>

**QA DEVELOPMENT SCIENTIST (Clayton, NC)**

This position will be responsible for the Clayton Analytical Standards and Controls program that qualifies and monitors the standards, references, and controls required for the test methods in use by the QC Laboratories. These responsibilities include the generation of characterization and stability - protocols, data analyses, interpretative reports, annual reviews, and change control documents. Ongoing control of available inventory, monitoring of stability, and replacement of outdated or unacceptable standards, references, and controls is expected. The position is responsible for building and maintaining effective cross-functional relationships with the QC Laboratories, QC Analytical Services, and Technology who provide the laboratory services and technical experts concerning the individual test methods. For more details visit:

<http://www.bayerpharma-na.com/careers/>

**SENIOR ASSOCIATE SCIENTIST -  
Biochemical Profiling Data Analysis (RTP, NC)**

Paradigm Genetics. This position will be responsible for support in the analysis of raw mass spectrometry data and subsequent transfer of reduced data to the Function-Finder bioinformatics system. Interactions will involve laboratory personnel, informatics and bioinformatics system. The successful candidate must possess excellent skills in instrumentation specific software, Active-x, Oracle's Jbuilder and other web interface technologies, data archive, and GUI datamining programs. Some experience in the processing and interpretation of mass spectrometry data is highly desirable. Job # Paradigm 142. For more details visit:

<http://www.paragen.com/content/careers/jobopps.html>

**RESEARCH SCIENTIST (RTP, NC)**

Paradigm Genetics. This position will join our Assay Development Group and be responsible for the design and development of HTS assays for our novel targets. Experience with various enzyme, receptor binding, and ELISA assays required as well as at least a working knowledge of expression systems and various purification methods. Industrial experience is an absolute requirement. MS/BS with 3 or more years of experience. Job # Paradigm 160. For more details visit:

<http://www.paragen.com/content/careers/jobopps.html>

**ANALYTICAL CHEMIST 1 (RTP, NC)**

Research Triangle Institute. BA/BS in chemistry or related experience. Some experience in analytical instrumentation is required. Trace/ultra trace metal analysis and clean room experience is also required. Will operate atomic absorption spectrometer (Flame and Graphite furnace), Inductively coupled plasma optical emission spectrometer (ICP-OES), cold vapor atomic fluorescence spectrometer (CVAFS), and hydride generation atomic fluorescence spectrometer (HGAFS). Will also prepare samples for instrumental analysis at trace and ultra trace levels using various sample preparation methods including microwave and muffle furnace techniques and work in clean rooms. For more details visit:

<http://www.rti.org/jobs/>

**CHEMIST 3/RESEARCH CHEMIST 1 (RTP, NC)**

Research Triangle Institute. RTI's Center for Environmental Measurements and Quality Assurance is seeking to fill the position of Chemist 3/Research Chemist 1. The qualified candidate will have a BA/BS in chemistry and 4-9 years experience in tissue analysis using SPE and HPLC; GLP training preferred. Will develop/validate analytical methods for tissue analysis using HPLC and solid phase extraction (SPE); help train staff in these techniques. For more details visit:

<http://www.rti.org/jobs/>

**COMBINATORIAL CHEMIST (RTP, NC)**

Sphinx Pharmaceuticals. Responsible for conducting the synthesis of combinatorial libraries (solution and solid phase) and developing automation methods for synthesis work-up, and analysis procedures. May evaluate new software and hardware for parallel array synthesis and may be involved in programming liquid-handling robots as well as other computer-controlled devices used in the design, execution, and interpretation of experiments that contribute to projects goals. Work on problems of diverse and novel scope where analyses of data requires evaluation of identifiable factors. Contributes to project process within scientific discipline through innovative research. Prepares technical reports, summaries, protocols and quantitative analyses. May participate in external seminars and scientific conferences. For more details visit:

<http://www.sphinxpharm.com/career.html>

# The TarHelium 31:2

Bradley E. Sturgeon, Editor  
c/o James A. Knopp, Dept. of Biochemistry-7622  
NC State University, Raleigh, NC 27695-7622

Address Correction Requested

PRST STD  
US POSTAGE  
PAID  
RALEIGH, NC  
PERMIT #1854

## Executive Committee:

B. E. Sturgeon (NCSSM), Chair '00, Editor	286-3366	sturgeon@ncssm.edu
C. M. Balik (NCSU), Chair Elect '01	515-2126	balik@ncsu.edu
S. Levine (NCSU), Secretary '00-'01	513-2585	slevine@pams.ncsu.edu
J. T. Bursey (ERG), Treasurer '99-'00	468-7926	jbursey@erg.com
J. A. Knopp (NCSU)	515-5828	jaknopp@ncsu.edu
J. L. Chao (IBM), Councilor '00-'02	543-3054	jchao@us.ibm.com
E. C. Bigham (GW), Councilor '99-'01	483-9844	ecb12781@glaxowellcome.com
R. W. Morrison, Jr. (NCSU), Councilor '99-'01	515-2549	robert_morrison@ncsu.edu
A.L. Crumbliss (Duke), Councilor '98-'00	660-1540	alc@chem.duke.edu
R. A. Palmer (Duke), Councilor '98-'00	660-1539	rap@chem.duke.edu
W. Powell (Meredith), Alt. Cnclr. '00-'02	760-8619	powellw@meredith.edu
J. D. Martin (NCSU), Alt Cnclr '99-'01	515-3402	jdmartin@ncsu.edu
W. L. Switzer (NCSU), Alt. Cnclr. '99-'01	515-2945	bill_switzer@ncsu.edu
C. Boss (NCSU), Alt. Cnclr '98-'00	515-3412	charles_boss@ncsu.edu
S. T. Purrington (NCSU), Councilor '98-'00	515-2864	suzanne_purrington@ncsu.edu
G. H. Wahl, Jr. (NCSU), Past Chair '99	515-2941	george_wahl@ncsu.edu
R.J. Linderman (Pharmacia) Past Chair '97	(847) 982-8153	Russell.J.Linderman@monsanto.com
D. L. Norwood Past Chair '97	(203)791-6129	norwood@rdg.boehringer-ingelheim.com
M. M. Bursey (UNC), Ex Officio	493-3025	mbursey@acs.org
K. A. Cutler (Hillside High School), Ex Officio	560-3925	cutler@dpsnc.net
E. L. Eliel (UNC), Ex Officio	962-6198	eliel@unc.edu
T. A. Lehman (UNC-CH), Past Chair '96	966-0581	talehman@intrex.net
T. O'Connell (GW), TMRDG, Ex Officio	483-1535	tmo89509@glaxowellcome.com
D. G. Morgan (GW), TAMSDG, Ex Officio	483-4291	dm19700@glaxowellcome.com
P. Hylsburg (Magellan), TCDG, Ex Officio	465-8430	pahyld@magellanlabs.com
C. M. Balik (NCSU), PDG, Ex Officio	515-2126	balik@ncsu.edu
D. S. Coleman (Lilly) YCC, Ex Officio	314-4352	coleman_darrell@lilly.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).

---