



# The TarHelium

Volume 24, Number 9

Summer 1994

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## Implementation of Good Laboratory Practices

1	Video Conference June 21, 1994
1	1:00 p.m. to 4:00 p.m. EDT
2	The Jane S. McKimmon Center
2	North Carolina State University
3	Western Blvd. and Gorman St., Raleigh
3	Panelists: <b>David Dull</b> , Director of Data Integrity Assurance with the US EPA, <b>Paul D. Lepore</b> , Bioresearch Monitoring Program Coordinator for the US FDA, <b>Barbara N. Sutter</b> , Analytical Quality Resource Coordinator and Quality Assurance Officer at the Analytical Science Laboratory of Dow Chemical Company and <b>Elisse Rosen</b> , Directory of Research Quality Assurance for the Legal Division of Pfizer Inc. A <b>local panel</b> discussion follows from 4:00 to 5:00.

Cost: \$65

Sponsors: NC Section ACS and the NC Quality Assurance Discussion Group.

Registration and Program details: page 3

## September Picnic Planned

Sunday, September 25, 1994 from 1-5 at the NC Museum of Life & Science. The cost will be \$8 per person for food for members and guests, \$4 for students and high school teachers. Discount admissions will be available at the Museum for \$2.50 per person additional.

We'll start the barbecue at 3, and the business meeting at 4.

**Reservation** required by Wednesday, September 21, 1994. In Chapel Hill call Becky Smith, 962-2172; in Durham, Bonnie Turner, 660-1506; in Raleigh, Joyce Dunn, 515-2546; in Fayetteville, Sandra Smith, 486-1571; or by e-mail at Internet: bill\_switzer@ncsu.edu

## The TarHelium

c/o William L. Switzer, Editor  
Department of Chemistry-8204  
North Carolina State University  
Raleigh NC 27695-8204

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**Voice-mail Information Line:** (919) 541-7183 in the RTP

- 10-General ACS
- 11-Polymer Discussion Group
- 52-Magnetic Resonance Spectroscopy Discussion Group
- 53-Mass Spectrometry Discussion Group
- 54-Triangle Chromatography Discussion Group

### National ACS meetings:

March 24-29, 1996, Seattle  
April 2-7, 1995, Anaheim

August 21-26, 1994, Washington  
August 20-25, 1995, Chicago  
August 25-30, 1996, Boston

**Deadline for September Publication: July 15, 1994**

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W. L. Switzer, Editor

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*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.

Contributions for *The TarHelium*: Send to W. L. Switzer, Editor, Chemistry-8204, North Carolina State University, Raleigh NC 27695-8204. Phone: (919) 515-2945, Fax: (919) 515-5079 and Internet: bill\_switzer@ncsu.edu.

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

If you wish to change your membership status or *The TarHelium* mailing address, please submit your new address along with your old address in the form of a recent *C&EN* or *TarHelium* address label to:

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Columbus, OH 43210

If you wish to receive job announcements and announcements of Local Section ACS events by electronic mail, please subscribe to the NCACS list. Send e-mail to: listserv@listserv.ncsu.edu. Include a one-line message saying: subscribe ncacs <your name>. To remove your name, send a message to the same address saying: unsubscribe ncacs. Other features of the list can be obtained by sending mail to the same address with the one-line message saying: info ncacs. Questions may be addressed to the *TarHelium* Editor.

On-line copies of recent issues of *The TarHelium* are now available on the Triangle FreeNet at the University of North Carolina, Chapel Hill. One may telnet to: tfnet.ils.unc.edu with login: freenet and password: guest. Issues are archived under:

4. Business/
3. Professional organizations/
  1. ACS American Chemical Society/
  1. ACS TarHelium (newsletter)/

Alternatively one may reach the server by gopher. From the State of North Carolina:

University of North Carolina at Chapel Hill, Info system  
Other information services  
Triangle Free-Net development gopher  
Business  
Professional organizations  
ACS American Chemical Society  
ACS TarHelium (newsletter)

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Quantitative Technology Inc. - p. 6

**Housing at ACS Meetings:** Looking for a roommate for an ACS meeting? Why not advertise in *The TarHelium*. Send us your name, gender, preference for smoking/nonsmoking, address, daytime/evening telephone number, and for which ACS meeting(s) you are seeking a roommate. We will publish this information in our newsletter under a roommate wanted ad and members can help each other find roommates. We will not take responsibility for roommate matches.

## Section Awards Given

### 1994 Marcus E. Hobbs Service Award

**Joan T. Bursey:** Joan was born in Omaha and received her B.S. in Chemistry from Creighton University there in 1965. She earned her PhD at Berkeley in 1969 in organic mass spectrometry, and then came to the University of North Carolina at Chapel Hill for postdoctoral work, where she published numerous papers and met her husband. She then worked for the Research

Triangle Institute for 13 years before moving to Radian Corporation in 1984, where she is now Senior Staff Scientist.

Along with many committee memberships over the years, Joan has been treasurer of the North Carolina Section for three terms. Among other activities in chemistry, she has been on the editorial advisory boards of *Mass Spectrometry Reviews* and *Biological Mass Spectrometry*, two journals published by John Wiley & Sons. Here in the Triangle, she also is a member of the board of the Piedmont Youth Orchestra.

Joan has published many research articles on mass spectrometric methods development in environmental chemistry and has served on review panels for the EPA.

### 1993-94 High School Chemistry Teacher Award

**Myra J. Halpin:** Myra received her BA in Chemistry and Biology from Shorter College in Rome, Georgia, a Masters of Education from Virginia State University, and a PhD in Science Education from NCSU. She is presently teaching chemistry at the North Carolina School of Science and Mathematics.

Myra also serves on a number of committees including the Board of Directors of the North Carolina Academy of Science, National Faculty for Challenger Center as well as chairing the National Science Teacher Association Committee for Space Education.

She has received numerous awards and science citations including Sigma Xi - Teacher of Year - South Carolina in 1985 and Teacher Award North Carolina State University in 1989. She has received a North Carolina Governor's Citation for Public Service and the 1993 National Space Club's Educator of the Year Award in 1993.

Myra is active in publishing and presenting results of her work in professional journals and attending a number of workshops and meetings on educational and scientific issues.

### 1994 Undergraduate Research Scholarships

This year's recipients are: **Preston T. Snee** from Enka NC and **Sunil Sudarshan** from Wichita Falls TX. Snee is studying chemistry at the University of North Carolina, Chapel Hill and Sudarshan is studying chemistry at Duke University. The Scholarship Committee is Benny Freeman, NCSU; Bob Ghirardelli, ARO-retired; John Hines, RTI; Erwin Vogler, Becton-Dickinson; and Jim Chao, Committee Chairman.

Oneida Research Services - p.

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## Video Conference on Lab Practices

The NC Section of the ACS and the North Carolina Quality Assurance Discussion Group (NCQADG) are co-sponsoring the live ACS satellite broadcast, "**Implementation of Good Laboratory Practices**" (GLPs) on June 21, 1994, 1:00 p.m. to 4:00 p.m. EDT at the Jane S. McKimmon Center, North Carolina State University. The Center is located at Western Blvd. and Gorman St. in Raleigh. The US FDA and US EPA pioneered the implementation of GLPs to assure the quality and integrity of data generated to support products submitted to these regulatory agencies for review and approval. The GLPs apply to a wide range of studies. Their general nature leads to many questions about interpretation and flexibility, as well as their specific applications to various types of studies and laboratories. This live broadcast will feature panelists David Dull, Director of Data Integrity Assurance, US EPA, and Paul D. LePore, Bioresearch Monitoring Program Coordinator, US FDA, both representing the government regulator perspective. The industrial perspective will be represented by Elisse Rosen, Director of Research Quality Assurance, Pfizer, Inc. and past president of the Society of Quality Assurance; and Barbara N. Sutter, Analytical Quality Resource Coordinator and Quality Assurance Officer, Dow Chemical Company. A panel discussion with several local experts will follow the broadcast. This program is targeted for professionals in industry, government and academia whose work involves quality assurance or product registration. Also targeted are laboratory managers interested in implementing, enhancing or improving their GLP programs; and other scientists who must function effectively in a GLP environment.

Refer questions on registration to William L. Switzer 515-2945 and questions on the program to Richard J. Patterson 846-3832. The \$65 charge covers the cost of the down link, resource materials and local site charges. CYAL, Inc. Morrisville, will host the break during the broadcast. Deadline: **Monday, June 13.** CEU credit available.

### Registration Form

Name: \_\_\_\_\_

Affiliation: \_\_\_\_\_

Address: \_\_\_\_\_  
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Phone: \_\_\_\_\_

Please enclose a check for \$65 made to the NC Section ACS and mail to:

William L. Switzer  
 Chemistry-8204  
 North Carolina State University  
 Raleigh NC 27695-8204

Phone reservations encouraged. Call (919) 515-2945 or FAX registration to (919) 515-5079.

### Project SEED Update

by Kenneth Cutler, Project SEED Coordinator

Seven Summer II students were approved at no cost to the Local Section by the Project SEED National Committee. We also received matching funds for five Summer I students.

Recently, at the Regional North Carolina Student Academy of Science (NCSAS), SEED students Mario Johnson, Lakeisha Rochelle, and Damon Gooch won a third, second, and first place, respectively, in their categories. All three advanced to the State NCSAS Competition. Damon Gooch and Lakeisha Rochelle placed second and third, respectively, in the Advanced Physical Science Category. Damon Gooch was one of four students recognized as a "First Place Navy/Marine Corps Distinguished Achievement Award winner".

Among our participating graduating seniors, Damon Gooch and Lakeisha Rochelle have received full scholarships to attend Winston-Salem State University to major in chemistry, in the schools Project Strengthen. Brent Collier received a full scholarship to major in chemistry at North Carolina Central University. Jennifer Davis will be attending UNC-Greensboro. Lakeisha Rochelle has also been accepted to attend UNC-Chapel Hill to major in chemistry.

1	ChemInnovation Software - p.
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3	Structure Drawing Software
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5	8190-E Mira Mesa Blvd., Suite 428
6	San Diego CA 92126
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8	(619) 566-2846
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### Where We Work

Below is a list of employers who hire ACS members. I am sure that there are many omissions and would appreciate learning of them. Bill Switzer, Editor

#### Industrial and Federal Government Lab:

ABB Environmental Services	Chapel Hill
Acurex Envir Corp	Research Triangle Park
Airco Electronic Gases	Research Triangle Park
Ajinomoto USA Inc	Raleigh
Allied-Signal Corp	Moncure
Amsco Scientific	Apex
Andcare Inc	Durham
Ansell Edmont Inc	Tarboro
BASF Corporation	Research Triangle Park
Becton Dickinson & Co Research Center	Research Triangle Park
Bioanaltika Labs Inc	Durham
Boron Biologicals Inc	Raleigh
Bristol Myers Co	Morrisville
Burroughs Wellcome Co	Research Triangle Park
Carolina Power & Light Co	New Hill
Ciba-Geigy Biotechnology Research	Research Triangle Park
CIIT	Research Triangle Park
Coerr Envr Corp	Chapel Hill
Compuchem Laboratories	Research Triangle Park
Cotton Inc	Raleigh
Cray Research Inc	Research Triangle Park
DuPont Corp	Fayetteville
DuPont Electronics Technology Center	Research Triangle Park
Ensys Inc	Research Triangle Park
Entropy	Research Triangle Park
Envir Tech Inst	Research Triangle Park
Environmental Scientific, Inc	Research Triangle Park
ESE Biosciences Inc	Raleigh

Family Health International	Research Triangle Park
Glaxo Inc	Research Triangle Park
Harris Microelectronic Center	Research Triangle Park
Hercules Inc	Research Triangle Park
IBM Corp	Research Triangle Park
IEA	Cary
INDA	Cary
International Paper Co	Durham
KABI Pharmacia Inc	Clayton
Lederle-Praxis Biologicals	Sanford
Liggett Group Inc	Durham
Liofol Co	Cary
Lord Corp	Cary
Macronex Inc	Morrisville
Magellan Laboratories Inc	Research Triangle Park
Malinckrodt Inc	Raleigh
ManTECH Environ. Technology Inc	Research Triangle Park
MCNC Center for Microelectronics	Research Triangle Park
MTS Syst	Durham
Mycosearch Inc	Durham
NC Biotechnology Center	Research Triangle Park
NC Super Computer Center	Research Triangle Park
Newton Instr Co Inc	Butner
NIEHS	Research Triangle Park
Nova Nordisk	Franklinton
Organon Teknika Corp	Durham
Protein Delivery Inc	Durham
QAAD Miles Inc	Clayton
Radian Corp	Research Triangle Park
Raychem Corp	Fuquay Varina
Reichold Chemicals	Research Triangle Park
Research Triangle Institute	Research Triangle Park
Resinall Corp	Severn
Rhône-Poulenc AG	Research Triangle Park
Semiconductor Research Corp	Research Triangle Park
Shults and Assoc Ltd	Chapel Hill
Silicon Graphics	Durham
Specialty Chemicals Co	Raleigh
Sphinx Pharmaceuticals	Durham
Sumitomo Electric Fiber Optics Corp	Research Triangle Park
Swift Adhesives R&D Ctr	Durham
The Lundy Packing Co	Clinton
Tri-Point Medical	Raleigh
Triangle Labs Inc	Chapel Hill
Trigon Eng Consultants PC	Raleigh
Underwriters Labs Inc	Research Triangle Park
Union Carbide-UCAR Emulsions	Cary
Unisol Chem Corp	Asheboro
US Army Research Office	Research Triangle Park
US Forest Service	Research Triangle Park
US-EPA	Research Triangle Park
VA Medical Center	Durham
Webb Technical Group Inc	Raleigh

#### Educational Institutions:

Campbell University	Buies Creek
Duke University	Durham
Biochemistry, Botany, Chemistry, Environment, Medicine, Pathology, Pharmacology, Radiology	
Elon College	Elon
Fayetteville State University	Fayetteville
North Carolina State University	Raleigh
Animal Science, Biochemistry, Chemical Engineering, Chemistry, Crop Science, Entomology, Food Science, Marine Earth and Atmospheric Sciences, Materials Engineering, Physics, Soil Science, Textiles, Toxicology, Wood And Paper Science	
Martin Community College	Williamston
Pembroke State University	Pembroke
University of North Carolina	Chapel Hill

Biochemistry, Biology, Chemistry, Dentistry, Environmental Engineering Science, Hematology, Medicine, Oncology, Pathology, Pharmacology, Radiation	
St Andrews Presbyterian College	Laurinburg
<b>State/County/City Laboratories:</b>	
Constable Lab	Raleigh
EHNR Chem Lab	Raleigh

Micron Inc. - p.

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3	Analytical Services
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5	3815 Lancaster Pike
6	Wilmington DE 19805
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## College Graduations

**Duke University** graduated 13 students with the BS degree and 30 with the AB degree.

#### BS:

Marshall S. Baker, Findlay, OH  
Charles P. Read, Mequon, WI  
Lawrence P. Cogswell, III, Glastonbury, CT  
John M. Fortune, Kernersville  
Maria C. Garci, Durham  
Ryan A. Luce, Summit, MO  
Christopher L. May, Rochester, NY

Claudia W. Roberson, Ormond Beach, FL  
Michael A. Shaw, Tacoma, WA  
Jennifer D. Sonnenberg, Merion, PA  
Daren J. Timmons, Kershaw, SC  
Daniel J. Webre, Baton Rouge, LA  
Malcolm C. Yeung, Houston, TX

#### AB:

Eric W. Amundson, Sarasota, FL  
Luna D. Bailey, Bronx, NY  
John R. Betz, Jr., Paulding, OH  
Mark J. Cooper, Lake Oswego, OR  
Richard C. D'Alonzo, Raleigh  
Thomas K. Darlington, Malvern, PA  
William F. Dietz, Muncie, IN  
Robert M. Fulghum, Marietta, GA  
Dara A. Green, Crewe, VA  
Richard D. Hunter, Chatham, NJ  
Kenneth W. Imerman, Encino, CA  
Nancy T. Jennings, Warner Robins, GA  
Jeffrey P. Kaiser, Baton Rouge, LA  
Christopher S. Kammer, Plover, WI  
William Kiang, Jacksonville, FL

Adam N. Klein, Northbrook, IL  
Athanasia S. Koliass, Edison, NJ  
Laura L. Kososki, Columbia, SC  
Christopher D. Lansford, Champaign, IL  
Michaela L. Long, Bangor, ME  
Radhika D. Naidu, Pocatello, ID  
Frances E. Naisang, Fairview  
Robert T. Neuner, Arlington, VA  
Tamara J. Nix, Stone Mountain, GA  
Cecile J. Politte, Alexandria, VA  
Kristi J. Raymond, Tucson, AZ  
Todd A. Rich, Kettering, OH  
Carsten M. Sorensen, Greensboro  
Claude H. Springfield, IV, Belden, MS  
Courtney D. Thornburg, Okemos, MI

Other awards recognized were: **Merck Index Award:** Michaela L. Long-Bangor, ME; **Department Of Chemistry Award:** Lawrence P. Cogswell, III-Glastonbury, CT; **North Carolina Institute Of Chemists Award:** Lawrence P. Cogswell, III-Glastonbury, CT; **Kenneth Gordon Fellowship For Advanced Independent Study:** Lawrence P. Cogswell, III-Glastonbury, CT, Claudia W. Roberson-Ormond Beach, FL and Courtney D. Thornburg-Okemos, MI; **CRC Press Freshman Chemistry Awards:** Josie Amley-Petersburg, FL and Armando C. Ro-

driguez-Garland, TX; **1994 Undergraduate Award In Analytical Chemistry:** Alecia Rideau-Baker, LA.

Phi Beta Kappa initiates included: Eric Amundson-Sarasota, FL; Lawrence P. Cogswell, III-Glastonbury, CT; Mark J. Cooper-Lake Oswego, OR; Maria C. Garci-Durham, NC; Adam N. Klein-Northbrook, IL; Michaela L. Long-Bangor, ME; Frances E. Naisang-Fairview, NC; Carsten M. Sorensen-Greensboro; Courtney D. Thornburg-Okemos, MI.

Beckman Instruments, Inc. - p.

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Chemical Instrumentation

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5 Howard Rosenberg, Ph. D.

6 1210 Ashbrooke Dr.

7 West Chester PA 19380

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9 (215) 429-1375 (PA)

10 (201) 818-8900 (NJ)

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Phi Lambda Upsilon initiates included: Eric Amundson-Sarasota, FL; Marshall S. Baker-Findlay, OH; Lawrence P. Cogswell, III-Glastonbury, CT; Mark J. Cooper-Lake Oswego, OR; Richard C. D'Alonzo-Raleigh, NC; William F. Dietz-Muncie, IN; John M. Fortune-Kernersville, NC; Robert M. Fulghum-Marietta, GA; Maria C. Garci-Durham, NC; Richard D. Hunter-Chatham, NJ; Kenneth W. Imerman-Encino, CA; Nancy T. Jennings-Warner Robins, GA; Jeffrey P. Kaiser-Baton Rouge, LA; William Kiang-Jacksonville, FL; Christopher D. Lansford-Champaign, IL; Michaela L. Long-Bangor, ME; Christopher L. May-Rochester, NY; Radhika D. Naidu-Pocatello, ID; Frances E. Naisang-Fairview, NC; Tamara J. Nix-Stone Mountain, GA; Kristi J. Raymond-Tucson, AZ; Claudia W. Roberson-Ormond Beach, FL; Jennifer D. Sonnenberg-Merion, PA; Carsten M. Sorensen-Greensboro, NC; Claude H. Springfield, IV-Belden, MS; Courtney D. Thornburg-Okemos, MI; Malcolm C. Yeung-Houston, TX.

**North Carolina State University biochemistry** graduated 62 students. Graduates included:

Kathryne R. Alonso  
Erin L. Anderson  
Nader M. Ayoub  
Anshu Bagga  
Craig M. Bartlett  
Wendy W. Basinger  
Kelli D. Beck  
Christa J. Caldwell  
Kevin L. Carrick  
Sung K. Chang  
Jason E. Cline  
Nikki L. Counts  
Kevin T. Crumpler  
Candace J. Decker  
Ami A. Desai  
Rachella D. Dobson  
Anissa N. Elayadi  
Michael L. Ellison  
Lori N. Frederick  
athleen E. Free  
KNora A. Gardner

Grady T. Helms, III  
Brian T. Hill  
Kara M. Holmes  
Kinnya Hudson  
Jerry Jeffrey  
Brian S. Jones  
Drew G. Jones, IV  
Kelly R. Knight  
Yee-Lut Kwok  
Anh T. Lam  
Mary D. LaMarche  
Christopher Lancaster  
Chao-Hsing Lee  
Kevin D. Lye  
Talmadge Massengill  
Michael McAlexander  
Leah C. Medlin  
Cynthia A. Minchard  
Eric Q. Mizelle  
Molly E. Morgan  
Elisabeth R. Nowell

Neil K. Pai  
David E. Paulsen  
Patricia M. Pence  
Kimberly P. Reynolds  
Kawan Rojanatavorn  
Michael R. Rothwell  
William E. Sanders  
Nicole Schramm  
Anu S. Singh  
Jessica L. Sneed  
William C. Tally  
Oulayvanh Thirakoune  
Elena D. Viego  
Stephen A. Walters  
Kristi J. Warren  
Tracy L. Warren  
Michael L. Whitfield  
DavidWilkins  
Jason P. Willis  
Mary K. Zadigian

**North Carolina State University chemistry** graduated 4 students with the PhD degree, 2 with the MS degree, 31 with the BS degree and 78 with the BA degree. Degree recipients were:

PhD:

Rima Salim Al-Awar  
Geewon Chung  
William Allen Kalsbeck  
Donna Lynn Scott

MS:

John Joseph Glennon  
Scott David Tennyson

BS:

Brian Keith Bluhm, Winston-Salem  
Ann Elizabeth Carrowon, Lumberton  
Michael Jin Casey, Raleigh  
Jarrett Heath Cheek, Hickory  
Elizabeth Margaret Currin, Columbus, OH  
Julian Murray Davis, Charlotte  
Matthew Cabaniss Diehl, Raleigh  
Jennifer Lynn Edwards, Bladenboro  
Stephen Scott Ferguson, Apex  
Jennifer Jean Fisher, Burlington  
Scott Evans Fix, Winston-Salem  
Catherine Denise Friedrich, Sparta, NJ  
Amy Marie Hackman, Newark, DE  
Melissa Michele Hayworth, Salisbury  
Brian Trenton Hill, Kernersville  
Jeannine Carole Jones-Guion, Durham

David Allen Knox, Raleigh  
Yee-Lut Kwok, Durham  
Tara Anne LoMenzo, Pleasant Garden  
Lori Elizabeth Miller, Arden  
Robert G Moss, Lilesville  
William Stuart C. Nicholson, Charlotte  
Donna Jean Nolen, Marshville  
La'Velle Fitzgerald Peterkin, Red Springs  
Kimberly Dean Potter, Raeford  
Mohammad Ali Sharif, Durham  
Cornelia Renee Stabler, Greensboro  
Keiko Hoshino Suzuki, Tokyo, Japan  
Craig Richmond Tewell, Waynesburg, PA  
Jason Douglas Weible, Brockway, PA  
Simon John Weiss, Highland, IL

BA:

Kathryne Raquel Alonso, Asheville  
Erin Leigh Anderson, Raleigh  
John Anderson Bailey, Charlotte  
Christopher Berry Barnwell, Hendersonville  
Marcia DeLayne Baum, Fayetteville  
Kelli Dyan Beck, Raleigh  
Mark David Betler, Union, WV  
Daniel William Bradford, Wilmington  
Ray Harris Branson, Eagle Springs  
Christa Joy Caldwell, Spartanburg, SC  
Tracey Donald Clark, Hope Mills  
Jason Emmett Cline, Conover  
Nikki Leigh Counts, Yadkinville  
Kevin Troy Crumpler, Pikeville  
Ami Ashvin Desai, Lumberton  
Rachella Delois Dobson, Rose Hill  
Anissa Nasser Elayadi, Raleigh  
Diane Carol Ellmore, Shrewsbury, PA  
Karla Leigh Faulk, Laurinburg  
Lori Nichole Frederick, Mount Olive  
Kathleen Ellen Free, Charlotte  
Jeffrey Lynn Grady, Durham  
Frederic Leroy Hatchett, Greensboro  
Grady Thomas Helms, Cary  
Kimberly Beth Helms, Lincolnnton  
Forrest Charles Hentz, Cary  
Art Clifford Holdsclaw, Catawba  
Johnnie Harold Hollingsworth, Jr.,  
Goldsboro  
Kara Melissa Holmes, Jamaica, NY  
Kinnya Taachalea Hudson, Warrenton  
Jerry Jeffrey, Danville, WV  
Catherine Ann Jelovich, Tarboro  
John Douglas Kanell, North Fort Myers, FL  
Karen Gayle Kern, Maysville  
Timothy Scott Kerns, Fayetteville  
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Mary Denise LaMarche, Raleigh  
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Michael Allen McAlexander, Mount Airy  
Charles Franklin McDowell, Hickory  
Edson Robert McKinney, Cary  
Leah Chisholm Medlin, Concord  
Eric Quentin Mizelle, Elizabeth City  
David Park Moreland, Raleigh  
Andrew James Nesgoda, Highland, NY  
Christa Marie O'Neal, Asheville  
David Edward Paulsen, Raleigh  
Jr. Charles Gilbert Peele, Charlotte  
Jerry Lee Perkinson, Cary  
Geneva Catherine Pigott, Gloucester  
Kimberly Paige Reynolds, Cary  
Lori Ann Richards, Brentwood, NY  
Resa Kimberly Rorie, Hickory  
Michael Reed Rothwell, Kingsport, TN  
Kawan Rojanatavorn, Raleigh  
David Cheston Rouzer, Durham  
William Eugene III Sanders, Gainesville,  
FL  
Dawn Yvette Sealey, Hope Mills  
Michael Jason Shoaf, Salisbury  
Anu Savita Singh, Raleigh  
William Carlton Talley, Garner  
Sarah Ruth Tart, Garner  
Oulayvanh Thirakoune, Raleigh  
John Mitchell Troutman, Raleigh  
Debra Miller Varon, Raleigh  
Elena De LaCaridad Viego, Wilmington  
Matthew Russell Walker, Charlotte  
Stephen Allan Walters, Herndon, VA  
Kristi Jo Warren, Garner  
Tracy Leanne Warren, Wilmington  
Steve Addison Warren, Goldsboro  
Michael Lynn Whitfield, Cary  
Mark Lyndon Wood, Fayetteville  
Mary Kathleen Zadigian, Chapel Hill

A number of awards were presented during the 1994 ceremony. These included: **CRC Press Freshman Chemistry Awards:** Feara Irma Ledford (Valdese) and Amy Cheryl Langdon

(Raleigh); **1994 Undergraduate Award in Analytical Chemistry:** Stephen Scott Ferguson (Apex); **American Institute of Chemists Foundation Outstanding Student Award:** Melissa Michele Hayworth (Salisbury); **Merck Index Awards for Scholastic Achievement:** Timothy Scott Kerns (Fayetteville), Brian Keith Bluhm (Winston-Salem) and Tara Anne Lomenzo (Pleasant Garden); **College of Physical & Mathematical Science Senior Award for Scholarly Achievement:** Elizabeth Margaret Currin (Columbus, OH); **Hoechst-Celanese Academic Excellence Awards:** Melissa Michele Hayworth (Salisbury) and Kang-Yi Chen (Shanghai, China). **Melissa Michele Hayworth, Elizabeth Margaret Currin and Kelli Dyan Beck** shared honor a co-valedictorians graduating with perfect 4.0 averages.

**Pembroke State University** graduated 8 students with the BS degree in chemistry. They were:

Edwin Jackson, Lumber Bridge  
Anessa Lewis, Cumberland  
Timothy Locklear, Red Springs  
Rodney McKoy, Clarkton

Connie Polston, Southern Pines  
Brian Scott, Fayetteville  
Yong Strickland, Lumberton  
Brian Waltman, Maxton

Several of these students also received other recognition. **Chancellor's Scholars:** Edwin Jackson (Lumber Bridge) and Anessa Lewis *magna cum laude* (Cumberland); **Professional Promise Award:** Connie Polston *cum laude* (Southern Pines); and **AIC Outstanding Senior Award:** Brian Scott (Fayetteville).

**University of North Carolina, Chapel Hill** and other colleges and universities will be carried in the September issue.

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## Councilor's Report

by Eric C. Bigham, Councilor

### A Report on The ACS Council Meeting, March 16, 1994.

**Membership Activities:** The Council voted to not increase dues for 1995. A proposal to give a family-care dues discount is being drafted by the membership affairs committee, and a similar discount for unemployed members is being considered. Subscription prices for journals will increase by an average of 4.3% for members and 11.7% for non-members and institutions. Executive Director John Crum reported that the ACS had a record number of new members in 1993 with a membership of over 149,000 by year's end. You should be on the lookout for a new videotape on ACS membership called "Partners in Chemistry: ACS and You". The Council also ratified a new Chemist's Code of Conduct to replace the older Chemist's Creed. Programming for undergraduates at National Meetings continues to expand with about 1000 students taking part in the ACS meeting in San Diego. The employment clearing house drew 940 candidates and 140 employers who held 800 interviews. President Heindel's office is also preparing a report on certification for specialized sub-fields in chemistry. Additional information on some of these topics appeared in C&EN.

**Communications:** President Ned Heindel reported that he is investigating better electronic access to ACS information, and he has established a direct e-mail address: [acspres@acs.org](mailto:acspres@acs.org). A CD-ROM version of selected CAS abstracts (CAS Surveyor) has been warmly received. A new interface with CAS files called "Artemis" will be on the market in 1994. Currently, interesting news articles are being sent to local section newsletter editors each month, and the participation of local sections in ACSNet is also being considered as a communications link.

**Public Affairs:** "Science in American Life", the ACS sponsored Smithsonian exhibit, opened on April 27. Past-President Helen Free reported on continuing public outreach efforts including the VIP program, workshops for local section public relations coordinators, government relations committees, the USA Today articles. "Reaction Action", a new TV program for children aged 9-12, is being piloted in several locations currently. Several local sections are also piloting a new kids and chemistry curriculum. Other outreach efforts include the distribution of two brochures that describe key facts about the importance of chemistry to the economy. The ACS has received \$2.8 MM for Operation Chemistry: Phase II to develop materials and support for elementary school science. The USA Today column continues to get a lot of attention. About 400 letters to the ACS are generated per column, and it has resulted in 55 community science grants amounting to \$50,000.

**ACS National:** President Heindel continues to support funding of basic research. A task force has been established to take a leading role in organizing an international chemistry celebration in 1999 in collaboration with sister organizations around the world. Chairman of the Board Paul Walter reported the lawsuit with Dialog has been settled, and the dispute with the Columbus School Board over taxation has been resolved. The Board also reported that the financial results of ACS for 1993 were positive, but the Society took a one-time \$13MM charge to cover unfunded pensions. A development office at national headquarters has been established to support funding of special ACS programs. Members may be interested to know the ACS building in Washington is currently undergoing renovation. The Board of Directors will focus on minorities in chemistry during 1994, but industrial relations will continue to get attention with the hiring of Dr. Manuel Panar as director of Industry Relations, and the creation of a Blue Ribbon Advisory Panel on Industry Relations. Finally, the candidates for the office of president-elect for 1995 nominated by council are Allan J. Bard and Ronald C. Breslow, but additional candidates may be nominated by petition.

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## Job Openings

All job announcements are broadcast immediately upon receipt to the NCACS recipients list. If you wish to be included, see

subscription instructions given on the front inside cover. The INFO file for the NCACS bulletin board has instructions on searching job opening with the State of North Carolina, North Carolina State University and University of North Carolina, Chapel Hill.

**Burroughs Wellcome:** Job Line (919) 315-8347.

**EPA-RTP:** Job line (919) 541-3014. Updated every Friday.

**Glaxo:** Job Line (919) 248-2565.

**RTI:** Contact: Research Triangle Institute, Office of Human Resources, PO Box 12194, Research Triangle Park NC 27709-2194. Phone: (919) 541-6466. Analytical Chemist I G0077 76A B.A./B.S. in Chemistry with experience or training in analytical instrumentation. Class 100 clean room and trace metal experience is preferred. Will operate Gas Furnace AA and ICP, prepare samples for instrumental analysis, work with spreadsheets. Analytical Chemist I G0078 76A B.A./B.S. in Chemistry with experience or training in analytical instrumentation. Class 100 clean room and trace metal experience is preferred. Will operate Gas Furnace AA and ICP, prepare samples for instrumental analysis, work with spreadsheet. Chemical Eng. I (Intern) J0260 96A Rising senior or recent graduate in chemical engineering. Will carry out gas-solid bench scale experiments, summarize data using computer generated GC analysis and write test reports. (Summer) Chemist I F0431 63A B.S./B.A. in Chemistry with training in organic synthesis. Will synthesize novel organic compounds. Chemist I F0432 63A B.S./B.A. in Chemistry with training in organic synthesis. Will synthesize novel organic compounds. Chemist I F0444 63A B.S./B.A. in Chemistry with laboratory experience in organic synthesis and chromatography desired. Will synthesize, characterize and purify peptides. Chemist I/II F0445 64A B.S./B.A. in Chemistry with emphasis in organic chemistry and training or experience in analytical methods. Will conduct studies of the metabolism of drugs and environmental chemicals and analyze biological fluids for these chemicals. Natural Products Scientist F0437 60A Ph.D. with research experience in the isolation, structure determination, synthesis, or testing of natural products. Will lead natural products research; write successful grant/contract proposals; manage research projects and supervise laboratory staff. Postdoctoral Chemist F0433 60A Ph.D. in Chemistry with training in organic chemistry, will synthesize haptens and conjugates for catalytic antibody programs. Will involve some analytical (kinetics) work. Postdoctoral Chemist F0436 63A Ph.D. in Chemistry with research experience in organic synthesis. Will synthesize novel organic compounds. Postdoctoral Chemist F0438 63A Ph.D. in Chemistry with research experience in organic synthesis. Will synthesize novel organic compounds. Postdoctoral Chemist F0447 63A Ph.D. in Chemistry with research experience in organic synthesis. Will conduct research in the synthesis or organic compounds. Research Associate I J0256 96A Ph.D. in Chemical Engineering with experience in gas-solid catalysis, hydrocarbon conversion, SO<sub>x</sub>/NO<sub>x</sub> control. Must have at least 2 years post-Ph.D. experience. Will carry out laboratory experiments in gas-solid catalysis, write reports and technical publications based on results and contribute to proposals. Postdoctoral Chemist F0436 63A Ph.D. in Chemistry with research experience in organic synthesis. Will synthesize novel organic compounds. Postdoctoral Chemist F0438 63A Ph.D. in Chemistry with research experience in organic synthesis. Will synthesize novel organic compounds. Postdoctoral Chemist F0447 63A Ph.D. in Chemistry

with research experience in organic synthesis. Will conduct research in the synthesis or organic compounds. Research Associate I J0256 96A Ph.D. in Chemical Engineering with experience in gas-solid catalysis, hydrocarbon conversion, SO<sub>x</sub>/NO<sub>x</sub> control. Must have at least 2 years post-Ph.D. experience. Will carry out laboratory experiments in gas-solid catalysis, write reports and technical publications based on results and contribute to proposals.

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## Area News

**Biotech Center:** The NC Biotechnology Center will spin off its Institute for Biotechnology Information as a for-profit company, effective July 1. "We are accomplishing several objectives simultaneously to help create new businesses and new jobs in the state while fulfilling the recommendations of the Government Performance Audit Committee," said Dr. Charles Hamner, president of the Center. "This will continue North Carolina's position at the forefront of biotechnological development in a knowledge-based society."

The Institute, created in 1986 and then known as the Center's Biotechnology Information Division, compiles and disseminates data on commercial biotechnology. Over the years, hundreds of clients from government, industry and academia have purchased strategic information from the Institute on a contractual, cost-recovery basis. The Institute's products include the annual report *Biotechnology in the U.S. Pharmaceutical Industry*, the monthly publication *Strategic Developments in Biotechnology*, and two reference books, the *State-by-State Biotechnology Directory* and the *Biotechnology Research Directory: 4,000 Faculty Profiles*. The Institute also compiles the Center's popular annual directory *North Carolina Companies in Biotechnology*, which describes the state's 70 biotechnology-related companies and more than 100 supporting companies and organizations.

The Institute will move to a commercial office on the fringe of the Research Triangle Park. It will retain its name, because the name is well recognized and implies high-quality work to clients.

**BBI and RTI:** Boron Biologicals Inc. (BBI) started work this week on a new \$75,000 contract from the National Institutes of Health (NIH) to study the toxicology of boronated biomolecules. These biomolecules have shown promise in the treatment of diseases such as cancer, osteoporosis, high cholesterol and inflammation. BBI director of research Dr. Anup Sood will work with Dr. Patricia Fail of Research Triangle Institute (RTI).

**BBI:** In other news, BBI has recently signed a partnership agreement with Technology Management & Funding, a Princeton, NJ-based firm specializing in the commercialization of new technologies developed by high-technology companies. Under

the partnership agreement, TMF will assist BBI in securing corporate partners to further the development of BBI's proprietary class of boron compounds.

In developing its technology, BBI has relied on long-standing collaborations with major research institutions including the University of North Carolina at Chapel Hill, Duke University and Brookhaven National Laboratory. Additionally, last year BBI entered into a partnership with Guerbet, S.A., a major French medical diagnostics company. Under the terms of the multi-year research contract and licensing agreement, BBI and Guerbet are jointly developing radiopaque contrast media imaging agents-substances that are injected into the body to help visualize internal organs in x-ray imaging.

**BW:** Burroughs Wellcome Invests \$300,000 in Triangle-Area Science Teacher Development Program. Triangle-area public school systems received more than \$300,000 in grants from the Burroughs Wellcome Co. as part of the company's Science Teacher Development Grants project. The project is designed to fund innovative programs that will improve teaching practices and stimulate interest of teachers and their students in science-oriented fields of study. Seven schools and educational organizations in Wake, Durham and Orange counties were selected to receive grants ranging from \$22 - 50K to support science education training programs for teachers.

The seven recipients were: Alice Aycock Poe Center for Education (\$50,000), Durham Public Education Network (\$48,000), E. K. Powe Elementary School (\$26,000), NCSU Education and Psychology Foundation (\$35,000), SRC Competitiveness Foundation (\$50,000), Wake Education Partnership (\$50,000) and Wake Co. Public Schools (\$31,000 and \$45,000 - two grants).

The seven recipients were chosen from many applications submitted by area schools and organizations. More information: Doug Stokke, 919/315-8611. (This information taken from the Science North Carolina Newsletter.)

**BW Fund:** The Burroughs Wellcome Fund is committing over \$6 million per year for its Career Awards in the Biomedical Sciences Program. This awards program will provide up to six years of support during the advanced postdoctoral and beginning faculty years for 12 outstanding young investigators in the biomedical sciences in the United States and Canada. Up to six awards will be available for individuals holding a PhD degree, and up to six awards for individuals holding an MD or MD/PhD.

Applications for the Career Awards Program are due by **October 1, 1994**. Individuals must be nominated by their respective institutions according to guidelines established by The Burroughs Wellcome Fund. A special outside Advisory Committee of nine distinguished biomedical scientists will review applications and make recommendations for awards no later than June 1, 1995.

For more information contact Martha G. Peck, The Burroughs Wellcome Fund, in Morrisville, 991-5100.

**Duke: Richard A. Palmer** was a Plenary Lecturer at the 6<sup>th</sup> International Austrian-Hungarian Conference on Vibrational Spectroscopy in Veszprem, Hungary, April 6-8. His lecture was entitled "Sub-molecular Liquid Crystal Dynamics by use of Time-resolved and Phase-resolved FT-IR Spectroscopy".

**Duke: Michael C. Pirrung** was one of four Duke faculty members among the 147 artists, scholars and scientists to receive prestigious 1994 Guggenheim fellowships for distinguished achievement. Pirrung received recognition for work on new technologies for the Human Genome Project. Pirrung's research involves constructing massive arrays of tailored molecules on

dime-sized glass chips. His technique could help figure out the structures of all human genes. Awards, presented by the John Simon Guggenheim Memorial Foundation, total \$4,070,000. Guggenheim Fellows are appointed on the basis of unusually distinguished achievement in the past and exceptional promise for future accomplishment.

**Duke:** Duke President Nannerl O. Keohane announced that **Pelham Wilder Jr.**, a member of the Duke University faculty for 45 years, will serve another three-year term as university marshal and chief of protocol. Wilder, who has been at Duke since he joined the chemistry faculty in 1949, has been in charge of official university ceremonies and events, including commencements and Founders' Day convocations since 1977.

Last October, he headed up planning for Keohane's inauguration. And in December, he was honored both for his academic contributions and for his work as university marshal when Keohane presented him with the Duke University Medal for Distinguished Meritorious Service-the university's highest award for service. He was made professor of chemistry at Duke in 1962, and in 1967 was named professor of chemistry and professor of pharmacology. In 1987, he was named university distinguished service professor of chemistry and professor of pharmacology. Wilder, who was one of the first scientists to conduct research on the nature of cigarette smoke, was named to emeritus status in fall 1990.

**Glaxo:** Timothy C. Tyson has been named vice president and general manager of Cerenex Pharmaceuticals, a division of Glaxo Inc. Cerenex is the division responsible for sales and marketing of medicines involving the central nervous system. The products include Imitrex<sup>®</sup> (sumatriptan) for treatment of migraines and Zofran<sup>®</sup> (ondansetron) for chemotherapy-induced emesis and post operative nausea and vomiting.

Tyson joined Glaxo in August 1988 as director of the research and development facilities project, and later was named vice president of engineering. He moves to Cerenex from Glaxo Dermatology, where he was vice president and general manager. Tyson replaces Richard A. Franco, who has retired.

Before coming to Glaxo, Tyson spend eight years at Bristol-Myers (now Bristol-Myers Squibb), where he was director of engineering and technical services. Tyson earned his BS degree in mechanical engineering from the US Military Academy at West Point NY, and a master's degree in both public administration and business administration from Jacksonville State University in Alabama. Tyson is a native of Hornell and Ithaca NY.

**Mallinckrodt:** Mallinckrodt Veterinary, Inc., a Mallinckrodt Group company, has broken ground for the company's planned world-class biologicals manufacturing facility just north of Raleigh. Company officials and local dignitaries gathered to mark the beginning of construction for the 100,000 square-foot facility, which will be situated on a 100-acre site directly across U.S. Highway 1 from other Mallinckrodt Group operations.

The plant, which will be completed in early 1996, is expected to employ 60 to 80 people to produce vaccines for the prevention of disease in livestock and companion animals. A range of 15 to 20 vaccine products eventually will be manufactured at the site, with the first product to be shipped in January 1997. The new plant will be built to conform with all USDA and stringent worldwide standards.

Mallinckrodt Chemical and Mallinckrodt Medical, sister companies in Mallinckrodt Group Inc., currently operate plants in Raleigh. Combined, they employ approximately 450 people with an estimated payroll of \$23 million.



Mallinckrodt Veterinary (formerly Pitman-Moore), with world headquarters in Mundelein, Illinois, is an operating company of Mallinckrodt Group Inc. (formerly IMCERA Group Inc.), headquartered in St. Louis, Missouri. Mallinckrodt Veterinary, one of the world's largest animal health and nutrition companies, develops and markets products in biologicals, animal productivity, feed ingredients, parasiticides, veterinary specialties and antimicrobials. Its more than 1,000 products are sold in 100 countries.

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**Novo Nordisk:** In Franklinton on April 19, the largest multipurpose enzyme plant in the Americas was inaugurated by its developer, Denmark-based Novo Nordisk. The plant, built to its new size and scope in a two-year \$120 million expansion program that represents the largest one-time investment in the company's history, will produce and distribute industrial enzymes for use in such products and industries as detergents, beverages, textiles, baking, starch, fruit juice and paper. Novo Nordisk is the world's leading producer of industrial enzymes, which represents a natural alternative to industrial chemicals. More than 40 enzymes are manufactured and marketed worldwide by the company's Bioindustrial Group.

The Franklinton facility, operated by Novo Nordisk BioChem Inc., is noted for its environmental friendliness. The spent biomass from the fermentation process, which represents the main waste produced by the plant, is classified as compost and is used as fertilizer on nearby farms.

More than 100 jobs were created in the plant expansion and the operation will support a total work force of 300 once Novo Nordisk Bioindustrials Inc., the sales and technical support unit, is relocated from Danbury CT in the first half of 1995. The Sales and Marketing Division employs 75 people. The number of professional staff expected to move with the Division next year is unknown.

The opening of the expanded plant was hailed by Novo Nordisk officials at a ceremony attended by North Carolina Lieutenant Governor Dennis A. Wicker and His Excellency Peter Dyvig, Denmark's Ambassador to the United States. "This expansion program is a milestone in the continually growing North American market for these environmentally sound biocatalysts, said Mads Ovlisen, president and CEO of Novo Nordisk A/S. "In addition, as part of our global production capacity, a significant portion is produced here for export."

The North American operations of the Novo Nordisk Bioindustrial Group cover all aspects of the enzyme business including research and development, manufacturing, sales and technical support. The expansion of the Franklinton facility and the relocation of sales and technical support operations are expected to produce a more streamlined more efficient operation for the company as a whole.

"Closer integration of sales and technical support with manufacturing will strengthen even further our responsiveness to customer needs," said Steen Riisgaard, president of the worldwide Bioindustrial Group. "Another realignment-the creation of strategic business units dedicated to specific industries-also advances that goal."

**NCSU (Biochemistry):** The Howard Hughes Foundation granted Biochemistry \$97,000 to purchase laboratory equipment in 1992. Another \$97,000 came from the North Carolina Biotechnology Center in 1993. During the past 1.5 years modern equipment and instrumentation have flowed into two Biochemistry laboratories, making it possible to develop a 6-credit hour curriculum of laboratory techniques. A laboratory coordinator position was funded by the College of Agriculture and Life Sciences to provide course continuity and equipment maintenance for this laboratory series. Biochemistry majors (60/yr) take BCH 452 (2 credits) which teaches quantitative techniques in the chemistries of proteins, nucleic acids, carbohydrates, and lipids. Biochemistry undergraduate majors are typically joined by students from other disciplines at NCSU, with total enrollments of some 220 per year. The advanced laboratory, BCH 454 (up to 40/yr), teaches biotechnology techniques in DNA/RNA manipulation, cloning, and protein purification. The laboratory manual for BCH 454 is 3" thick and the hours are long in this 4-credit hour course, but enthusiasm runs high among students who take it. Graduate students may also obtain biotechnology credit by taking BCH 552.

**NCSU (Biochemistry): Dr. Robert Anholt** joins the NCSU biochemistry faculty. He was born and raised in the Netherlands. At 18 he left Holland and studied biology at the Hebrew University in Jerusalem. He received his MS in biochemistry at University College of London and studied at the University of California, San Diego, for his PhD in biology. Research for his PhD dissertation was done at the Salk Institute, and focused on the reconstitution of nicotinic acetylcholine receptors in model membranes.

After obtaining his PhD, Dr. Anholt worked at the Johns Hopkins University School of Medicine as a postdoctoral fellow with Dr. Solomon H. Snyder in the Department of Neuroscience. He continued work on membrane receptors for benzodiazepines and began his work on the biochemistry and molecular biology of olfaction.

Dr. Anholt joined the physiology faculty at Duke University in 1986. He has authored 40 scientific publications and has received uninterrupted grant support from the National Institutes of Health and the U.S. Army Research Office since 1986. He ea-

gerly awaits the debut of his first textbook, entitled "Dazzle 'Em With Style: The Art of Oral Scientific Presentation", to be published by W. H. Freeman and Co. in March, 1994.

**NCSU (Chemical Engineering): Dr. Carol Hall**, Professor of Chemical Engineering, was one of two recipients of the Newcomb Lectureships for Renowned Women in Chemical Engineering. Hall was recognized for her research in Statistical Thermodynamics and for her promotion of professional development of women in chemical engineering. The Newcomb Lectureship Series was founded in 1991 and is sponsored by the Newcomb Foundation at Tulane University. Dr. Hall is also President of the Triangle Area Chapter of the Association of Women in Science.

**NCSU (Chemistry): Dr. Janet G. Osteryoung**, head of the Department of Chemistry at North Carolina State University, has been named director of the Division of Chemistry at the National Science Foundation (NSF). The appointment is effective September 1. As director, she will be responsible for federal funds in excess of \$120 million to support research and education in the chemical sciences. Osteryoung has requested a three-year leave of absence from NCSU.

Dr. Jerry L. Whitten, dean of the NCSU College of Physical and Mathematical Sciences, said that while Osteryoung's appointment is a loss for NCSU, it is a positive development for the NSF and the national chemistry community.

"Dr. Osteryoung will have significant influence nationally during a period of rapid change and redirection of scientific research and education. As a world-renowned electrochemist and scholar, she is eminently qualified for the position at NSF," Whitten said.

Osteryoung has been professor and head of chemistry at NCSU since January 1992. Prior to joining the NCSU faculty, she was professor of chemistry at State University of New York at Buffalo. She served at the NSF previously in 1977 as program director for chemical analysis.

While at NCSU, she has been credited with leading the chemistry department into a major cycle of renewal and development of both graduate and undergraduate programs.

**NCSU (Chemistry):** The NCSU Alumni Association presented awards April 29, 1994 in recognition of service to the university by alumni, faculty member and students. Receiving one of the awards for outstanding research was **Dr. Daniel Comins**, professor of chemistry.

**RTI:** RTI has additional EPA funds to develop, demonstrate, and evaluate methods to analyze environmental samples. The California Air Resources Board has provided additional funds for development and validation of test methods for volatile organic compounds in consumer products. RTI has additional EPA funds for quality assurance for environmental pollutant monitoring.

From a private-sector client, RTI has additional funds for mechanism of action studies of a pesticide. Another private-sector client has provided additional funds for product chemistry studies of a pesticide. RTI is providing carbon-14 synthesis for product safety studies.

Research Triangle Institute's revenue was \$121.1 million in the year ending September 30, 1993, a 2.6% increase from the previous year. At the end of the fiscal year RTI's regular staff included 1,472 people, compared with 1,523 a year earlier and 1,435 two years ago. Two-thirds of RTI's staff are professional and technical specialists working in research programs. RTI's

revenue comes mainly from competitively won contracts for applied research and development in a wide range of chemical, life, physical, statistical, and social sciences, as well as engineering.

Research for industry continued a decade-long pattern of strong growth, increasing to \$17.3 million, 14.5% of overall activity. This work is for companies in industries such as biomedical products, electricity generating, electronics, manufacturing, and chemicals.

The US Department of Health and Human Services (DHHS) remained RTI's largest client, accounting for 40.3% of the RTI total. Most of this DHHS activity is with the National Institutes of Health in research to help prevent and treat diseases such as cancer and public health threats such as drug abuse. The US Environmental Protection Agency continued to be among RTI's most important clients, accounting for 16.7% of technical activities in 1993, up slightly from 16.6% the previous year. Research for the US Agency for International Development grew from \$8.4 million last year to \$9.6 million, 7.9% of the RTI total. Other major federal sources of funding for RTI's scientists are the US Department of Defense (7.1%), the US Department of Education (4.7%), and the National Aeronautics and Space Administration (2.5%).

The Institute's physical plant includes a 565,000-square-foot research and headquarters facility in the center of the Research Triangle Park, and 23,000 square feet at four other US locations. In addition, RTI has project offices in seven nations.

Construction was completed in 1993 on a 58,850-square-foot Medicinal Chemistry laboratory building on the main campus. In addition, renovation of most existing chemistry and biology laboratories will be finished in 1994.

**Sphinx:** Sphinx Pharmaceuticals Corporation and Eli Lilly and Company announced that the two companies have signed a definitive agreement for the acquisition of Sphinx by Lilly. Under the terms of the agreement, Sphinx stockholders would receive \$6 per share for each share of Sphinx common stock. The transaction is subject to the approval of Sphinx stockholders, applicable governmental approval, completion of due diligence, and the receipt of third party consents.

Following the announcement of the letter of intent, lawsuits were filed by certain Sphinx stockholders seeking, among other things, to enjoin Sphinx and Lilly from proceeding with the proposed transaction. Sphinx believes the acquisition is in the best interest of the Company and its stockholders. Accordingly, Sphinx intends to defend the lawsuits vigorously and to submit the agreement for approval by stockholders at the earliest practicable date.

Sphinx is dedicated to drug discovery and development by generating combinatorial chemistry libraries of small molecule compounds and by high throughput screening against biological targets central to human diseases.

In other business news, Sphinx announced its results for the third quarter of fiscal 1994. The Company reported revenues of \$619,000 and a net loss of \$5.4 million, or \$0.43 per share. These results compare with revenues of \$918,000 and a net loss of \$9.1 million, or \$0.76 per share, for the same period a year earlier. The third quarter 1993 results included a one time charge of \$3.8 million reflecting the cost of the acquisition of Genesis Pharmaceuticals, Inc. On March 31, 1994, Sphinx had \$16.8 million of cash and marketable securities. Sphinx also reported revenues for the nine-month period ended March 31, 1994 of \$1,812,000 with a net loss of \$15.4 million, or \$1.22 per share. This compares to revenues of \$2,608,000, and a net loss

of \$19.6 million, or \$1.64 per share, for the same period of the last fiscal year.

In technical news, Sphinx announced results of its Phase II clinical trial of Kynac<sup>®</sup> (safingol 2%) Ointment, for the treatment of the signs and symptoms of atopic dermatitis, one of the most common types of eczema. Results showed statistically significant differences, favoring Kynac, relative to results obtained by the placebo control. However, the magnitude of improvement was less than that of existing therapies used to treat eczema.

**Triangle Labs: J. Ronald Hass**, president and chief executive officer of Triangle Laboratories, Inc. of the Research Triangle Park, announced that his company has formed a research partnership with the Technical University of Cottbus, a new environmental science and engineering university in the former East Germany. The partnership is the first of its kind between an American company and a German university. The mission of the partnership will be to conduct research and analysis in support of environmental engineering needs. The Technical University of Cottbus is located about 60 miles south of Berlin. The partnership, known as an *Aninstitute*, is located near the TUC campus. Triangle Labs scientists will work with student assistants, and will also serve as guest lecturers at the university. It is anticipated that eight to ten people will be involved at the beginning.

**UNC-CH: Thomas J. Meyer**, Kenan Professor of Chemistry and Chairman of the Curriculum in Applied Sciences at the University of North Carolina, Chapel Hill, has been named a fellow of the prestigious American Academy of Arts and Sciences. Meyer is the 22<sup>nd</sup> UNC-CH faculty to be selected as a fellow in the Academy. He will be inducted into the academy at an October 12 dinner in Cambridge MA.

Known for his work in inorganic electron transfer chemistry, photochemistry and catalysis, Meyer has contributed novel approaches to new chemical systems that may convert light energy into chemical energy as happens in photosynthesis. Meyer, who is former Chemistry Department Chairman, won the ACS's Inorganic Award in 1990. He also received the Tanner Award for Teaching Excellence and has held the Smith Professorship in Chemistry at UNC.

Founded in 1780 by John Adams and others, the Academy seeks "to cultivate every art and science which may ... advance the interest, honor, dignity and happiness of a free, independent and virtuous people."

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## New Government Affairs Program

The ACS Board of Directors has voted to reestablish the State and Local Government Affairs program (SLGA), beginning with this year. Far from sending orders down from Washington, the

new Program intends to enhance existing Local Section (LS) activities and pinpoint new opportunities for involvement. It can maximize LS efforts in working with state and local officials by coordinating activities with those of other ACS members and providing information the LS may need to proceed, such as the names of state legislators and their committee assignments. A public affairs kit will be available, as well as a newsletter covering state legislative developments relevant to science education reform.

Science education at the elementary and secondary school level has been chosen as the initial focus of the SLGA program because of its importance in training future scientists and providing non-scientists with the technical background they will need to survive the new global economy. Education also shapes the views of future policy makers and citizens toward the sciences and those who practice them. While the American Chemical Society is already involved at the federal level in affecting education policy, most of the reform activity is at the state and local level. Additionally, most federal funds are channeled through state and local education agencies.

At the direction of the Society Committee on Education (SOCED), SLGA's will explore ways to enhance teacher training and qualifications, accountability for federal funds, and programs to attract and retain underrepresented groups in the sciences. Fifteen states have been selected for special emphasis and the setting up of member networks to maximize interactions with legislators. These states are California, Colorado, Delaware, Florida, Illinois, Massachusetts, Michigan, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Texas, Washington, and Wisconsin. Assistance in interacting with government officials will further be available upon request to ACS members in all fifty states, on any issue of relevance to the membership.

In addition to the policy direction for the Program that will be provided by SOCED, an advisory board has been assembled to provide strategic advice. The board is composed of a member of the ACS Board of Directors, a member of SOCED, a member of the ACS Committee on Chemistry and Public Affairs, a high school chemistry teacher, and a state legislator who also is a chemistry professor. As a Local Section member, your input will be valuable in letting other ACS members know through SLGA where and how they can join you in shaping public policy.

To be added to the mailing list for the Program, send your name, address, phone and fax number, and (if available) Internet address to Mr. Bill Gray at: American Chemical Society/ 1155 Sixteenth Street, NW/Washington, DC 20036, phone him at 202/872- 4391, fax to 202/872-6206, or use wtg93@acs.org on the Internet. If you are an ACS member, please also indicate your Local Section affiliation. For further questions or comments about the new Program, you may call David Schleicher at 202/872-4384 or use drs93@acs.org on the Internet. If you're already involved in tracking or interaction with state or local government decision makers, please let us know.

## Chemistry Olympiad Participants

Six area students competed in the Chemistry Olympiads sponsored by the ACS. They were: Ed Amerson, Sanderson High School (Raleigh); Kyle Rehder and Jamie Taylor, W. G. Enloe High School (Raleigh); Mike Nicholson, Chapel Hill High School; and David Masse and John Joseph Hess, Jr. both from the NC School of Science and Math.

## Graduate Course Offerings Fall 1994

**Duke:** Contact Ms. Earlene Beamon, Director of Graduate Studies Office, at 660-1546 for information about course offerings and registration.

- CHM 201 Molecular Spectroscopy, 1-3 units, 10:30-11:20, MWF, Prisant  
 CHM 203 Quantum Chemistry, 1-3 units, 11:50-12:40, MWF, MacPhail  
 CHM 205 Structure/Reaction Dynamics, 1-3 units, 1:10-2:00, MWF, Baldwin, Porter Wells  
 CHM 207 Kinetics/Thermo/Diffractions, 1-3 units, 9:10-10:00 MWF, Smith, McPhail  
 CHM 209 Advanced Chemistry, 3 credits, TBA, Bonk

**NCSU:** Contact Dr. Russ Linderman, Director of Graduate Studies, at 515-3616 for information about course offerings and registration.

- CH 501 Advanced Inorganic Chemistry I, 3 credits, 10:15-11:05, MWF  
 CH 503 Advanced Inorganic Chemistry II 3 credits, 12:25-1:15, MWF  
 CH 511 Advanced Analytical Chemistry I, 3 credits, 9:10-10:00, MWF  
 CH 521 Advanced Organic Chemistry I, 3 credits, 11:20-12:10, MWF  
 CH 530 Advanced Physical Chemistry, 3 credits, 8:05-8:55, MWF  
 CH 595H Sp Top: Bioinorganic Chemistry, 3 credits, 5:15-6:30, TTh  
 CH 595Z Sp Top: Solid State Chemistry, 3 credits, 1:05-2:20, TTh  
 CH 615 Chemical Separations, 3 credits, 9:50-11:05, TTh  
 CH 627 Chemistry of Metal Organic Compounds, 3 credits, 9:10-10:00, MWF

**UNC:** Contact the Division of Continuing Education, Continuing Studies at 962-1134 or write: Continuing Studies CB 1020, Friday Center UNC-CH, Chapel Hill NC 27599-1020.

- CH 121 Synthesis of Polymers; 3 credits, 8:00-9:15 TTh  
 CH 130 Introduction to Biological Chemistry; 3 credits, 11:00-12:15 TTh, Spremulli  
 CH 132 Protein Chemistry; 3 credits, 8:00-9:15 TTh; Pielak  
 CH 135 Physical Chemistry of Biological Macromolecules; 3 credits; 10:00-10:50 MWF; Thompson  
 CH 142 Analytical Research Techniques; 2 credits, 9:00-9:50 MWF; Wightman  
 CH 145 Electroanalytical Chemistry; 3 credits; 9:30-10:45 TTh; Murray  
 CH 150 Intermediate Inorganic Chemistry; 3 credits, 9:00-9:50 MWF, Templeton  
 CH 151 Theoretical Inorganic Chemistry; VAR credit, 8:00-8:50 MWF; Hatfield  
 CH 166 Advanced Organic Chemistry I; 3 credits, 9:30-10:45 TTh; Crimmins  
 CH 175 Mechanisms of Organic and Inorganic Reactions; 4 credits, 11:00-11:50 MWF and 1:00-1:50 F; Meyer and Brookhart  
 CH 180 Introduction to Biophysical Chemistry; 3 credits, 11:00-11:50 MWF, Dearman  
 CH 181 Physical Chemistry I; 3 credits, 10:00-10:50 MWF, Berkowitz  
 CH 184 Thermodynamics and Introduction to Statistical Thermodynamics; VAR credits 9:00-9:50 MWF; Jarnagin  
 CH 186 Introduction to Quantum Chemistry; 3 credits, 11:00-12:15 TTh; Johnson  
 CH 190 Fundamentals of Materials Science; 3 credits, 10:00-10:50 MWF; Irene

## New Local Section Members

Javier Alarcon  
 Dr Glen Alliger  
 Wanda Bodnar  
 Mihaela L Bojin  
 Kathryn L Bowman  
 Charles Fitzgerald Bratton  
 Dr Gary W Breton  
 Mary Cabe  
 Thomas M Chambers Jr  
 Suk-Yee Cheng  
 Dr Arthur R Clark  
 Jacqueline Crawford  
 Auburn Mercedes Dawson  
 Joseph Marion Dickens  
 David Clark Farabee  
 Reshan Armedius Fernando  
 Chris James Foti  
 David J Gasper  
 Katherine M Geiger  
 Dr Donald John Gerhart

Dennis M Goldin  
 Carolynne Smith Hagan  
 Dr Michael Alan Harpold  
 Jennifer Hedrick  
 Timothy Patrick Hickey  
 Amy Kay Holland  
 Jay Thomas Holt  
 Derek Roger Holtman  
 Hao Hong  
 Dr Ping Y Huang  
 Ronnie Jenkins  
 Pamela Joyner  
 Dr Gordon Julian  
 Robin Kirwan  
 Phillip Sherman Klein  
 Cypryan T Klish III  
 Bekki Komar  
 Michelle Krempp  
 Dr Yen-Shi Lai  
 C A Lauff

Cybele B Martin  
 Noel Martinez  
 Patrick James Mc Donald  
 Laura Kathryn McArthur  
 Dr Terry McCaffrey  
 Earl Glen McCune  
 Ed Williams McLean  
 Dr Anita Melikian-Badalian  
 Henry Eugene Merritt  
 Dalia G Mikhael  
 Chad Mistele  
 Najih A Naser  
 Monica Nees  
 Per Olesen  
 Dr Cedric John Pearce  
 Dr Uduwage L Perera  
 Harvey Pobiner  
 Rumen Mikolaev C. Radinov  
 Katari S Raju  
 Robert N Richardson

Melva N Rios  
 Kristie A Roberson  
 Dr Charles David Rowe  
 Scott C Ryals  
 Sonja Irene Salmon  
 Thomas Edward Selleny  
 Dr Rominder Singh  
 S L Straight  
 Phillip B Summers Jr  
 Leila Anne Telan  
 Mary Paul Thomas  
 Jeffrey H Tidwell  
 James Luther Tomlin  
 Anh V Tranphuoc  
 Hai Minh Vu  
 James Luther Yeatts  
 Yining Zhang  
 Brian Zievis