



# The TarHelium

Volume 25, Number 2

October 1994

## VOTE

Biographical Sketches sketches pages 2-3 and the Ballot is given on Page 4.

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## Polymer Discussion Group

Thursday, October 13, 1994

Stevin H. Gehrke  
University of Cincinnati

## "Properties And Applications of Responsive Polymer Gels"

NCSU Faculty Club  
4200 Hillsborough St., Raleigh

- 5:30 p. m. Social Hour  
6:30 p. m. Dinner<sup>†</sup>(members-guests:  
\$15; students \$8)  
7:30 p. m. Lecture

<sup>†</sup>Reservations by noon, October 11 with Richard Venditti in Raleigh at: 515-6185 or richard\_venditti@ncsu.edu

## Triangle Molecular Modeling

Two TMMDG meetings are planned for October. On October 14, J. Philip Bowen, University of Georgia, Athens, will speak on "Recent Advances in Molecular Mechanics Forcefield Development" and on October 24, Peter Gund, Molecular Simu-

lations, Inc., will speak on "Recent Successes in Ligand-Based Drug Design". These talks will be held in the school of Pharmacy at UNC-CH. Contact Dr. Alex Tropsha for information, 966-2955.

## MS Discussion Group

October 27 at 7 pm the speakers are Dr. Arthur Mosley, Glaxo, who will speak on "Quantitative and Qualitative Applications of LC/ESI/MS and CZE/ESI/MS in the Pharmaceutical Industry and Dr. Robert Voyksner, RTI, who will speak on "Residue Analysis using LC/MS". The location is Dreyfus Auditorium, Research Triangle Institute, 3040 Cornwallis Rd, Research Triangle Park, or for more information contact Dr. Don Chace at 549-0445 at the Duke University.

## Fall Symposium

26<sup>th</sup> Southeastern Magnetic Resonance Conference at The University of North Carolina, Chapel Hill, October 23-25, 1994. See page 5.

## The TarHelium

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

## Executive Committee:

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A. Tropsha (UNC), TMMDG, <i>Ex Officio</i>	966-2955

**Voicemail 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:

- April 2-7, 1995, Anaheim
- March 24-29, 1996, Seattle
- August 20-25, 1995, Chicago
- August 25-30, 1996, Boston

**Deadline for October Publication: October 12, 1994**

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W. L. Switzer, Editor

S. T. Purrington, Assistant Editor

P. A. Flowers, Advertising

*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.

**Advertising:** All nine 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 four or more issues in a publication year which runs from September through April plus one issue in the summer. Contact Paul Flowers, Advertising Manager, Department of Physical Science, Pembroke State University, Pembroke NC 28372, Phone: (919) 521-6247 Fax: (919) 521-6649 and Internet: paul@nat.pembroke.edu.

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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American Chemical Society  
P. O. Box 3337  
Columbus, OH 43210  
meminfo@acs.org

When communicating electronically, include your membership number and a return telephone number in your message. You may request membership applications electronically, but when completing them please write NC Section in the blank labeled Local Section/Division Commission Claim in the lower right hand corner of the first page. You may also request add/drop subscriptions among other services.

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.

To subscribe to a Local Section bulletin board to discuss general topics of interest to the chemical profession, follow the same procedure described above, but include the one-line message saying: subscribe ncacsdialog <your name>. To post to the list, send mail to ncacsdialog@ncsu.edu.

To communicate with the entire Executive Committee, send mail to: acsexcomm@ncsu.edu.

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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## Co-General Chairs for 1998 Selected

Dr. Robert Ghiradelli, Army Research Office-Ret., and Dr. William L. Switzer, North Carolina State University, have agreed to co-chair the 1998 Southeastern Regional ACS meeting. Activities for the next few months focus on finalizing the dates and negotiating the final contract with the meeting site, which is planned for the Sheraton Imperial Hotel and Convention Center near the Research Triangle Park. Shortly thereafter they will begin to put together the steering committee. The window of dates being considered is Wednesday-Saturday, November 4-7, 1998. These dates avoid the State Fair and the Furniture Mart, the two big events in the area for the fall season. They also take advantage of reduced facility cost after November 1. Please contact either co-chair if you wish to comment or volunteer with the early planning stage.

DIONEX c. - p.

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## Meet the Candidates

### For Chair-Elect:

**Thomas Lehman** is on the staff of the Mass Spectrometry Facility in the Children's Hospital of the Duke University Medical Center. He holds a PhD in physical chemistry from Purdue University (1967). During 1969-70 he was a postdoctoral associate in the laboratory of Prof. Bursey at UNC. During 1979-80 he was Visiting Scientist at NIEHS in the mass spectrometry lab headed by Ronald Hass. For 20 years he taught at Bethel College in Kansas, where he served as chair-elect and chair of the Wichita local section. His experience there has included membership on the planning committee for an ACS midwest regional meeting in Wichita in the mid-1980s and co-development of a symposium on "Innovative Experiments in the Undergraduate Analytical, Computational, and Physical Chemistry Laboratory" for the 1992 ACS regional meeting in Lawrence, KS. During 1993-94 he was a visiting scholar with NSF support at UNC,

where he is currently a visiting professor. He is active in the Triangle mass spectrometry discussion group.

**Alexander Tropsha**, was born in 1960 in Moscow, Russia. He received his MS degree in Chemical Enzymology in 1982 and PhD in Biochemistry and Pharmacology in 1986, both at the Moscow State University. In 1989 he immigrated to the US with his wife and his son as political refugees. He was a postdoctoral fellow at University of North Carolina, Chapel Hill in 1989-1991. In 1991 he joined the faculty in the School of Pharmacy at the University of North Carolina, Chapel Hill as an Assistant Professor and Director of the Laboratory for Molecular Modeling.

Dr. Tropsha's research interests include computer assisted drug and protein design, molecular dynamics and free energy simulations, and mechanisms of protein-protein interaction and protein folding. He teaches two graduate courses at UNC on fundamentals of molecular and macromolecular modeling. He is a member of several professional organizations, including the American Chemical Society, American Association for the Advancement of Science, American Protein Society and American Association of Colleges of Pharmacy.

#### For Treasurer:

**Joan Bursey**, born in Omaha, is the incumbent treasurer. Her BS is from Creighton University, and her PhD from Berkeley in 1969. She moved to North Carolina as a post doc at UNC-Chapel Hill, and then worked at the Research Triangle Institute for 14 years. She has been at Radian Corporation since 1984, and is currently Senior Staff Scientist there. Her research interests are in environmental methods development, particularly mass spectrometry; she has served on the editorial boards of *Mass Spectrometry Reviews* and *Biological and Environmental Mass Spectrometry*.

**Paul A. Flowers** is presently an Associate Professor of Chemistry at Pembroke State University. He graduated from St. Andrews Presbyterian College (BS in Chemistry, 1983) and the University of Tennessee (PhD in Analytical Chemistry, 1988) and completed a postdoctoral appointment with Los Alamos National Laboratory prior to joining the faculty at PSU. Dr. Flowers' responsibilities include teaching General and Analytical Chemistry, directing undergraduate research, and service on several Departmental and University committees. Since the Fall of 1993, he has served as Advertising Editor for the NC-ACS newsletter, *The TarHelium*.

#### Councilor:

**Richard A. Palmer** received the BS degree in Chemistry from the University of Texas at Austin in 1957. After a tour of duty with the Navy, he returned to the graduate program at the University of Illinois to work with T. S. Piper. In 1965 he received his PhD. After two postdoctoral appointments, he joined the faculty of the Chemistry Department of Duke University in 1966 where he is now Professor of Chemistry. He serves on the National Council of the American Chemical Society, on the Board of Managers of the Coblenz Society and the editorial Board of *Applied Spectroscopy*. He is a member of The Society for Applied Spectroscopy, The Society of Sigma Xi, Phi Lambda Upsilon and Phi Beta Kappa.

His research interests are in the fields of 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 character-

ization of polymer films, liquid crystals, heme proteins and transition metal complexes.

#### Alternate Councilor:

**Robert W. Shaw** graduated in chemistry from Williams College and received his PhD in Physical Chemistry from the University of Washington. He was a post doc at Princeton before going to the University of Oregon where he was visiting assistant professor. In North Carolina he spent six years as research chemist/physicist at the US Environmental Protection Agency developing methods for trace analysis of atmospheric particles and gases. He received four Scientific and Technological Achievement Awards from the EPA for original and significant contributions to the literature and in 1983 he received the Silver Medal of the EPA. Since 1983 he has been at the Army Research Office where he is Associate Director of the Division of Chemical and Biological Sciences and manages research in physical chemistry and surface science. He has initiated and directed two NATO Advanced Research Workshops on destruction of toxic wastes. He is a member of the American Chemical Society, the American Institute of Physics and Phi Beta Kappa. He served for three years as chairman of the NC Section Centennial Scholarship Award Committee.

**Alan E. Tonelli**, a Professor in the Department of Textile Engineering, Chemistry and Science at North Carolina State University, received his BS degree with distinction in Chemical Engineering from the University of Kansas in 1964 and his PhD from Stanford in Chemistry in 1968. From 1968 until 1991, he was a member of the Technical Staff in the Polymer Chemistry Research Department at AT&T Bell labs before coming to NCSU as an Associate Professor in 1991.

Dr. Tonelli is a member of the ACS Polymer Chemistry Division and the American Physical Society High Polymer Physics Division. He is the founding member of the North Jersey Regional Science Fair for high school students. He organized and Chaired the Undergraduate Research Symposium under the auspices of the New Jersey Section of the ACS in 1981. He was chairman of the Polymer Topical Group for the North Jersey Local Section ACS in 1980 and Chair-elect and Program Chairman for the NC Section Polymer Discussion Group 1992-93 and was Chairman of that group 1993-1994. He was an ACS tour speaker in 1986 and again in 1988. He served on the Editorial Boards of *Macromolecules* (1984-1986) and *J. Comp. Polym. Sci.* (1991-present).

Dr. Tonelli is a member of Tau Beta Pi and Sigma Xi. At AT&T Bell Labs, he received the Distinguished Technical Staff Award in 1983 and the Extraordinary Achievement Award 1985 and 1987. He was elected Fellow of the American Physical Society in 1989.

ChemInnovation Software - p.

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Structure Drawing Software

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6 San Diego CA 92126

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8 (619) 566-2846

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## Ballot

Biographies of the Candidates may be found beginning on pages 2. Only ACS members are eligible to vote. **Voting Deadline: Postmarked by Monday, October 31, 1993.** Use the enclosed envelope and be sure to **sign and print your name** so that the Nominating Committee can verify membership. Mail the ballot to:

Robert Voyksner, Chairman Nominating Committee  
Research Triangle Institute  
P O Box 12194  
Research Triangle Park NC 27709

Chair elect : (vote for one)

- Thomas Lehman**  
 **Alexander Tropsha**

Treasurer: (vote for one)

- Joan Bursey**  
 **Paul A. Flowers**

Councilor: (vote for one)

- Richard A. Palmer**

Alternate Councilor: (vote for one)

- Robert W. Shaw**  
 **Alan E. Tonelli**

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Quantitative Technology Inc. - p.

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6 Whitehouse NJ 08888

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## Chem Week Volunteers Needed

The NC Section and the Museum of Life and Science will sponsor a Chemistry Fair at the Museum on November 12 from 10:30 to 4:30. This event will provide all of the Museum's visitors with an opportunity to engage in a variety of hands-on chemistry activities. Activity stations will be set up in the Mercury Meeting Room. We are looking for volunteers who would like to share their enthusiasm for chemistry by participating in this event. For more information, please call Erin Keating at 220-5429, ext. 367.

## Area Seminars

- Oct 6 Carl S. Thummel, University of Utah, "Regulation of Gene Expression by the Steroid Hormone Ecdysone During Drosophila Metamorphosis", NCSU-BC
- Oct 7 Mark D. Ediger, University of Wisconsin at Madison, "Rotational and Translational Motion in Supercooled Liquids", Duke
- Oct 10 Joan Valentine, University of California, Los Angeles, "Redesign of Yeast Copper-Zinc Superoxide Dismutase", NCSU
- Oct 13 Stevin H. Gehrke, University of Cincinnati, "Properties And Applications of Responsive Polymer Gels", PDG
- Oct 13 Ithalda Uston, Howard University, "Porcine Peripheral Blood Basophile Response to Infection of Ascaris Suum", NCSU-BC
- Oct 14 Michael Prisant, Duke University, "Applications of the Ray Representation and a Special Purpose Massively Parallel Supercomputer to the Problems of Protein Structure and Function", Duke
- Oct 14 J. Philip Bowen, University of Georgia, Athens, "Recent Advances in Molecular Mechanics Forcefield Development", TMMDG
- Oct 18 Louis S. Hegedus, Colorado State University, "Chromium Carbene Photochemistry in the Synthesis of Biologically Active Compounds", Duke
- Oct 20 Andrzej Malkiewicz, Technical University (Poland), "Models of Hypermodified RNAs: Chemical Synthesis and Structural Studies", NCSU-BC
- Oct 21 Marc Porter, Iowa State University, "Organic Monolayer Films: Formation, Structure, and Applications", NCSU
- Oct 21 Galen D. Stucky, University of California, Santa Barbara, "Lye, Sand, Soap, Flat Pearls and Lace: The Inorganic/Organic Interface in Materials Synthesis", Duke
- Oct 23-25, "26<sup>th</sup> Southeastern Magnetic Resonance Conference", ACS Local Section Symposium at UNC-CH
- Oct 24 Fritz Eckstein, Max Planck Institute, "The Hammerhead Ribozyme: Structure, Function and Application", Duke
- Oct 24 Andrezj Rajca, University of Nebraska, Lincoln, "Synthesis of Dendritic and Macrocyclic High-Spin Polyradicals: Bonding vs. Magnetism", NCSU
- Oct 24 Peter Gund, Molecular Simulations, Inc., "Recent Successes in Ligand-Based Drug Design", TMMDG
- Oct 26 Paul Lahti, University of Massachusetts, "High Spin Organic Molecules: The Quest for Molecular Magnetism", NCSU
- Oct 27 Dr. Arthur Moseley, Glaxo, "Quantitative and Qualitative Applications of LC/ESI/MS and CZE/ESI/MS in the Pharmaceutical Industry" and Dr. Robert Voyksner, Research Triangle Institute, "Residue Analysis using LC/MS", MSDG
- Oct 27 Marvin Thompson, Pennsylvania State University, "The Milk-Whey Proteins alpha-Lactalbumin and beta-Lactoglobulin as Modulators of Mammary Epithelial Cells", NCSU-BC
- Oct 28 Dmitri Coucouvanis, University of Michigan, "Partial Functional Analogs of the Active Site in Nitrogenase", NCSU
- Oct 28 Jack Koenig, Case Western Reserve University, "Infrared Mapping of Polymer-Dispersed Liquid Crystals", Duke

ACS-American Chemical Society general meeting. Call Bill Switzer 515-2945 (NC SU). Voice Mail 541-7183, box 10  
 MSDC-Mass Spectrometry Discussion Group. Call Carol Haney 515-3746 (NC SU). Voice Mail 541-7183, box 53  
 PDG-Polymer Discussion Group. Call Walter Pawlowski 543-2243 (IBM-RTP). Voice Mail 541-7183, box 11  
 TMMDG-Triangle Molecular Modeling Discussion Group. Call Alex Tropsha 966-2955 (UNC-CH).  
 Duke (Chemistry) Call Bonnie Turner at 660-1506.  
 NC SU (Chemistry) Call Joyce Weatherspoon at 515-2548.  
 NC SU-BC (Biochemistry) Call Pat Sullivan 515-2581.

## Fall Symposium

The Fall Local Section Symposium this year will be held jointly with the 26<sup>th</sup> Southeastern Magnetic Resonance Conference at The University of North Carolina, Chapel Hill, October 23-25. The preliminary list of speakers includes:

James S. Hyde	Medical College of Wisconsin
Daniel P. Weitekamp	California Institute of Technology
James R. Norris Jr.	Argonne National Laboratory
Sharon Campbell-Burke	University of North Carolina CH
Paul Agris	North Carolina State University
Ed Janssen	Oklahoma Medical Research Foundation
Wallace Brey	University of Florida
Hans van Willigen	University of Massachusetts, Boston
Ned Jackson	Michigan State University
Ronald Mason	NIEHS
Rick McCullough	Carnegie-Mellon University
David Schultz	North Carolina State University
Tom Pochapsky	Brandeis University
Keith Madden	Notre Dame Radiation Laboratory
Art Rodriguez	East Carolina University
Paul Lahti	University of Massachusetts
Andrzej Rajca	University of Nebraska
John Dawson	University of South Carolina
Barbara Ramsay-Shaw	Duke University
Martin Bakker	University of Alabama
Robert Weisskopf	Massachusetts General Hospital
Weiguo Zhang	Carnegie-Mellon University
John McCracken	Michigan State University
Ron Crouch	Burroughs Wellcome, Inc.
Ffrancon Williams	University of Tennessee
Ed Samulski	University of North Carolina, CH
Craig Ogle	University of North Carolina, Charlotte
David Westmoreland	Rohm & Haas Corp.
Rob Tycko	AT&T Bell Laboratories
David Singel	Montana State University
Dave Doetschman	SUNY-Binghamton

Planned session topics include: Protein and Nucleic Acid Structure by NMR, Organic Magnetic Materials, *In Vivo* NMR and Functional MRI, EPR Spectroscopy, Solid State NMR of Semiconductors and Polymers and Electron Transfer and Photosynthesis.

Registration can and abstract forms are included as center folds to this issue. Complete and return them to Malcolm D. E. Forbes at the address shown. You may also submit this information by FAX to the number shown or by electronic mail to:

forbes@uncvxl.oit.unc.edu

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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, CH.

**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. For. An. Tox. III/Res. For. An. Tox. I F0455 64A B.S./B.A. in Chemistry or related area with at least 1-2 years experience with review/certification of GC/MS and immunoassay data and forensic chain of custody procedures. Postdoctoral Chemist F0446 63A Ph.D. in Chemistry with 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. Postdoctoral Chemist F0450 63A Ph.D. in Organic Chemistry with experience or training in organic synthesis. Will conduct research to synthesize novel organic compounds. Postdoctoral Chemist F0462 63A Ph.D. in Organic Chemistry with research experience in organic synthesis. Will conduct research to synthesize novel organic compounds. Postdoctoral Chemist F0464 64A Ph.D. in Organic Chemistry with research experience in organic synthesis. Will synthesize haptens and conjugates for catalytic antibody programs. Some analytical (kinetics) work. Postdoctoral Chemist F0468 63A Ph.D. in Chemistry with research experience in synthetic organic chemistry. Will synthesize novel organic compounds.

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## University Grants and Contracts

**ACS-PRF:** "Photocycloadditions of Dihydropyridones", **D. L. Comins**, NCSU

Augmentation Awards for Science and Engineering Research Training (AASERT) Program of the **Air Force Office of Scientific Research** and **Lord Foundation:** "Chemistry Involving the Preparation, Isolation, and Immobilization of Nanocrystalline and/or Microcrystalline Boron Arsenide, Boron Phosphide, and Boron Antimonide", **R. L. Wells**, Duke

**DOE:** "One-Step PCR Sequencing", **B. R. Shaw**, Duke

**Glaxo:** "Comparison of Mass Spectrometry Analysis Using Frit-Flow FAB and Electrospray Mass Spectrometry for IC/MS", **A. L. Crumbliss**, Duke

**NIH:** "Pentenyl Glycosides in Transformations at Anomeric Centers", **B. O. Fraser-Reid**, Duke; "Bio-Organic Photochemistry", **M. C. Pirrung**, Duke.

**Pew Scholars Program** in the Biomedical Sciences: "Design of Novel DNA-Binding Peptides", **M. J. Burk**, Duke

Galbraith Laboratories - p.

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## Area News

**BBI:** Boron Biologicals Inc. (BBI) has named Local Section member, **Karel Base**, Ph.D. as its new director of product development and Tish A. Brown as manager, quality control and analytical science. Base, who has more than 23 years experience in organic and inorganic chemistry, will guide the development of BBI's boron-based compounds, which have pharmaceutical, diagnostic and other life-science applications. Brown has more than seven years analytical development experience with companies such as Glaxo Inc. and Webb Technical Group.

Before joining BBI as senior research chemist in 1992, Base served as research associate in boron chemistry at the University of Colorado at Boulder, and, through a National Science Foundation grant, as visiting scholar at the University of Texas at Austin. He has also worked as a senior research associate at the Institute of Inorganic Chemistry of the Czechoslovak Academy of Sciences in Prague, Czech Republic. Base holds a Ph.D. in chemistry from the Czechoslovak Academy of Sciences in Prague, Czech Republic, and an M.S. in chemistry from the Institute of Chemical Technology in Pardubice, Czech Republic.

Brown has worked as an analytical chemist at BBI since 1993. Before that, she served as assistant quality assurance (QA) chemist at Glaxo Inc.'s facility in Zebulon, conducting tests on finished products, and as senior food chemist at Webb Technical Group in Raleigh, where she performed food analyses and implemented QA procedures. She holds an M.S. in food chemistry from the University of Florida.

**Duke: Edward M. Arnett**, Emeritus Professor of Chemistry, presented an invited lecture on "Thermodynamics for C-H Bond-Breaking of Some Amphihydric Compounds by Transfer of Protons, Hydride Ions, H-Atoms and Electrons" at a symposium on Reactive Intermediates at the 12<sup>th</sup> Conference on Physical Organic Chemistry of the International Union of Pure and Applied Chemistry (IUPAC) held in Padova, Italy, August 28 to September 2, 1994. Dr. Arnett has completed a term as Vice President for the American Section of IUPAC. He has been Chairman of a task force of the National Research Council charged with rewriting "Prudent Practices for Handling Hazardous Chemicals in Laboratories" and "Prudent Practices for Disposal of Chemicals from Laboratories," the widely recognized authoritative text on safety in laboratories where chemicals are handled.

Professor **Alvin L. Crumbliss**, Chairman of the Department of Chemistry, Duke University, was selected by the French Academy of Sciences to receive a "Professeur de l'Academie" Award, sponsored by the Academie des Sciences, the Centre National de la Recherche Scientifique (CNRS) and Elf Aquitaine, Inc. This international Award has been in existence since 1992 and supports a full year of research at a French laboratory. Four awardees (a neurobiologist, a geologist, a mathematician and a chemist) were selected internationally for 1994-95. Dr. Crumbliss will spend the calendar year 1995 in Strasbourg, France doing research involving transition metal complex recognition and transport at the Laboratoire de Physico-Chimie Bioinorganique, École Européenne de Hautes Études des Industries Chimiques de Strasbourg. He will also be associated with the Laboratoire d'Électrochimie, École Nationale Supérieure de Chimie de Paris.

Professor **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". Palmer and his Group also will present an invited paper in a symposium on Dynamic Infrared Spectroscopy at the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) meeting in St. Louis on October 4 entitled "Sub-molecular Dynamics and the Nature of Photo-excitation Processes by Use of Step-Scan FT-IR". The co-authors are graduate students Eric Y. Jiang and Susan E. Plunkett, visiting scholar Akira Fuji and Duke Adjunct Professor James L. Chao. The paper will be presented by Dr. Palmer, who will also be presenting invited lectures at the Beckman Institute of the University of Illinois, Urbana-Champaign on October 7, University of Illinois, Chicago on October 10 and to the Chicago Section of the Society of Applied Spectroscopy on October 11.

Professor **Richard L. Wells** presented a paper entitled "On the Synthesis of Mixed-Metal and Mixed-Pnictogen 13-15 Ring Systems" at the International Symposium on Inorganic Ring Systems (IRIS VII), August 7-12, in Banff, Canada. This was also the subject of his talk at the ONR Solid State and Surface Chemical Science & Technology Review/Workshop, September 28-30, in Minneapolis, Minnesota. He also served as the main group elements editor for the eight-volume Encyclopedia of Inorganic Chemistry, published recently by John Wiley & Sons. The encyclopedia is a multi-article reference work that represents the most extensive review of the field in two decades.

**Dr. Shreyas S. Kher**, a Duke postdoctoral research associate working with Prof. Wells, presented a paper describing a safer

way to synthesize multigram quantities of nanocrystalline III-V semiconductors at the 208<sup>th</sup> ACS National Meeting, August 21-25, in Washington, DC. A synopsis of this paper was published as one of the "Meeting Briefs" in the September 5 issue of Chemical and Engineering News.

At the Duke Chemistry Department Graduate Awards Luncheon held in July, four members of the Wells' research group were named as recipients of fellowships: **Steven R. Aubuchon** - Joe Taylor Adams Fellowship; **Ryan A. Baldwin** - Chemistry for Executives Fellowship; **Janeen A. Laske** - Paul M. Gross Fellowship; **Michael S. Lube** - Chemistry for Executives Fellowship.

**Andrew Morehead**, a rising fourth year student in Professor Michael Pirrung's group at Duke University, has been chosen to receive the ACS Division of Organic Chemistry Graduate Fellowship for 1994-95, sponsored by Upjohn.

The 20<sup>th</sup> Anniversary Session of Chemistry for Executives, Duke's short course for executives and managers in the chemical industry who lack a background in chemistry, was held May 15 through 27. This year's class included representatives from 17 companies and brought the total number of alumni since the inception of the course in 1975 to 580. Special guests at the closing banquet of the course included Duke alumnus Werner C. Brown, who, when President of Hercules Inc., provided the original impetus for the program, and Louis D. Quin, who was Chairman of the Duke Chemistry Department in 1975. Previously directed by Charles K. Bradsher (1975-1985) and Richard L. Wells (1986-1991), the course is currently under the direction of Richard A. Palmer. The 1995 edition of Chemistry for Executives is scheduled for May 21-June 2. For further information, contact Professor Palmer: rap@chem.duke.edu (e-mail); 660-1539 or 660-1519 (telephone); or by FAX at 660-1605.

**Lord Corp:** The Board of Directors of Lord Corporation announced that it has authorized the relocation of the Company's executive offices from West Lake Road, Erie, PA, to the Raleigh, NC, area. While no firm timetable has been developed, it is expected that the move will be completed in the Spring of 1995. About 20 employees, including corporate officers and selected senior staff department heads, will be offered transfers, said Dr. Charles J. Hora, Lord president. Dr. Hora emphasized, "This move in no way affects the 1200 employees in our operations in Erie, Cambridge Springs and Saegertown."

In explaining the move Hora said, "Lord is rapidly moving into a global customer base that is pushing the rate of changes faster each year. To meet this challenge, I am committed to reintroducing innovation into Lord Corporation and I expect the major technical advancements will come from our laboratories in Cary, NC, outside of Raleigh. This move puts our senior management in a position to evaluate these technical innovations in their early stages of development."

Lord has a research and development facility located in MacGregor Park, Cary, NC, that was built in 1982 and significantly expanded in 1990. It currently has more than 80 scientists conducting research into mechanical dynamics and surface chemistries. Lord also established a joint venture, Liofol Company, in the Lord research park. The JV is with Henkel KGaA, Germany, and manufactures and sells adhesives used in the flexible packaging industries.

Lord Corporation is a privately held, technology driven corporation that designs and manufactures engineered products for vibration/shock/noise control and an array of adhesives, coatings,

and chemicals used in the automotive and a variety of consumer related industries. Current worldwide work force is approximately 1800 employees and in 1993, Lord reported sales of \$249 million.

**NCSU: Dr. Paul Boyle** has come to the Chemistry Department as Director of the X-ray Facility North Carolina State University. Dr. Boyle received his B.S. degree from Syracuse University and his Ph.D. from the University of Minnesota on the synthetic cluster chemistry of phosphine stabilized mixed metal clusters containing Re and Au under Prof. Louis H. Pignolet. He continued his pursuit of crystallography by working in the structure determination facility at the University of Minnesota under Professor Doyle Britton. He then became a Postdoctoral Research Fellow at the Laboratorium Fuer Chemische und Mineralogische Kristallographie at the Universität Bern with Professor Hans-Beat Buergi.

**Christopher B. Gorman**, Assistant Professor, also joined the chemistry faculty this fall. He received his BA in 1987 from Drew University; and his PhD in 1991 from the California Institute of Technology (Advisor: Robert Grubbs, Thesis: "Soluble, Highly Conjugated Polyacetylenes Via The Ring-Opening Metathesis Polymerization of Cyclooctatetraenes"). He was a postdoctoral fellow, 1992 Jet Propulsion Laboratory, where his research was the elucidation of the relationship between molecular structure and nonlinear optical response - a unified view of molecular polarizability. He was also a postdoctoral fellow, 1993-1994, at Harvard University where his work focused on the control of the shape of liquid lenses on a modified gold surface using an applied electrical potential across a self-assembled monolayer. His research specialty is organic/materials chemistry. Current projects include routes to electroactive polymeric materials, and their use in lithography and schemes for molecular-based information storage.

**Forrest W. Getzen**, Local Section Chair - 1980, was the plenary lecturer at the 6<sup>th</sup> International Symposium on Solubility Phenomena in Buenos Aires. He also chaired one of the sessions. While in Buenos Aires, he participated in the committee activities of the IUPAC Solubility Data Series V.8 Commission where he serves as the chairman of the liquid-liquid subcommittee.

**James D. Martin** also joined the Department of Chemistry at North Carolina State University as an Assistant Professor this fall. He received his BA in 1986 from Goshen College; and his Ph.D from Indiana University (Advisor: Malcolm H. Chisholm, Thesis: "Metal Phosphorus Ligation at a Tungsten-Tungsten Triple Bonded Center: Structure, Reactivity and Mechanism of Formation.") He was an NSF postdoctoral fellow for one year at the Laboratoire de Chimie Theorique, Orsay, France, where, working with Enric Canadell, his research focused on the relationship between the physical and electronic structure of organic molecular conductors and metal oxides. He briefly worked as a visiting scientist in the X-ray crystallography laboratory at the Indiana University Molecular Structure Center. He then was a postdoctoral fellow at Iowa State University (with John D. Corbett) where he discovered numerous reduced lanthanum iodide phases with a variety of conducting and magnetic properties. His current research interests fall at the interface of molecular and solid-state inorganic chemistry where he is developing solvothermal syntheses of rare-earth and transition metal halides, and methodologies for *in situ* spectroscopic investigation of solvothermal reactions.

**Robert A. Osteryoung** is serving a one-year appointment as head of the Department of Chemistry. He came to the University

in 1992 from the State University of New York at Buffalo. Robert also recently returned from giving an invited Colloquium at the University of Iowa entitled "Ambient Temperature Chloroaluminate Ionic Liquids: Chemistry, Electrochemistry and Witchcraft".

**Suzzane T. Purrington** was elected Chair of the Fluorine Division of the ACS for 1996.

**Edward O. Stejskal** has returned from a September tour of Brazil where he gave several talks at each of three universities including: the Federal University of Rio Grande do Sul, the Federal University of Rio de Janeiro, and the Petrobras Central Research. He also gave an invited talk at a joint meeting of the 2<sup>nd</sup> Ibero-American Polymer Symposium, 4<sup>th</sup> Latin-American Polymer Symposium and 6<sup>th</sup> International Macromolecular Colloquium in Gramado, Brazil.

**Harold E. Swaisgood**, William Neal Reynolds Professor of Food Science and Biochemistry, received the 1994 Award for Advancement of Application of Agricultural and Food Chemistry. Swaisgood is an expert in protein and enzyme chemistry and biochemistry as related to foods.

**George Wahl** recently became Chair-elect of the ACS Division of Chemical Health and Safety and serves as Program Chair for this Division. He was also recently re-appointed to a second three year term on the Board of Editors of *Chemical Health and Safety*. This publication is a voice for the academic and industrial environmental health and safety community.

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## Member Locator Service

Need to find the address of a long lost friend or a professional colleague who is an ACS member? Perhaps Eric Blendermann, ACS Membership can help. He may be reached at: [ejb91@acs.org](mailto:ejb91@acs.org) or by phone 800/227-5558 (at the menu, press 9-3-3) or 202/872-6288. [For Local Section members, the TarHelium Editor, Bill Switzer can help.] Contributed by Bill Wilson, NIEHS

## GLAXO, INC. UNIVERSITY OF NORTH CAROLINA

announce the SIXTH ANNUAL

### "FRONTIERS IN CHEMISTRY AND MEDICINE SYMPOSIUM"

Sunday, 6:30 pm, November 6-Tuesday until  
Noon November 8, 1994

Friday Continuing Education Center  
University of North Carolina at Chapel Hill

Following are the distinguished '94 presenters

Prof. Jeremy Berg Biophy. & Biophys. Chemistry Johns Hopkins University	Prof. Larry Overman Dept. of Chemistry Univ. of California-Irvine
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Dr. Kary B. Mullis Nobel Laureate-Chemistry	Prof. Don C. Wiley Dept. Of Biochemistry Harvard University
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Prof. Andrew G. Myers Dept. of Chemistry Calif. Institute of Technology	Prof. Chi-Huey Wong Dept. of Chemistry Scripps Research Institute
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Prof. Harry Noller  
Center for Molecular Biology of RNA  
Sinsheimer Laboratories  
Univ. of California-Santa Cruz

Early registration is suggested as space is limited.

Please send your name, address, affiliation and phone number along with the appropriate fees.

Registration*	\$25.00	SEND TO:
Registration* & Banquet	\$60.00	Ms. Becky Smith
Student Registration*	\$10.00	Sympos. Coord.
Student Registration* & Banquet	\$30.00	UNC-CB #3290
*Lunch is included		Chapel Hill NC 27599-3290

FOR ADDITIONAL INFORMATION CALL

(919) 962-2172 Becky Smith, Symposium Coordinator-UNC  
(919) 783-0165 Wanda Satterwhite (Satterwhite Management Services) - Glaxo Rep.

## High School Teachers

by Dr. Sarah Allen, Chair High School Committee

Let's get ready to celebrate **National Chemistry Week** November 7-13<sup>th</sup>! Remember that the mission of NCW as sponsored by ACS is twofold: 1) To provide the public, particularly elementary and secondary students, with positive messages about chemistry and 2) To provide the ACS Local Sections with an approach to motivate and mobilize ACS members. In Durham, the Museum of Life and Science has a schedule of week long activities for the public involving professional chemists from the Triangle Area as leaders. Watch for the announcements in local newspapers for details. Look at the call for volunteers elsewhere in this issue if you think you can help. Whether you celebrate chemistry this week or all year long, get out there and do what you can to inform the public that chemistry is an exciting field and also one that empowers those who become involved with it, helping to make them better informed citizens.



To help celebrate this special week, the ACS has scheduled two Satellite TV Seminars, one for chemistry educators and one for students of chemistry. **"Teaching Chemistry, 1994: An Anthology on Using Materials Science to Teach Introductory Chemistry,"** is intended for chemistry educators. It will air from 6:00 PM-8:00 PM on Monday, November 7. With the help of several other co-sponsoring groups, the Local Section is coordinating three opportunities for participating in this workshop. Two of these opportunities will air live at the time scheduled and one will be presented by tape delay as part of the NC Science Teachers Association (NCSTA) meeting in Raleigh on Wednesday, November 9.

For those who had the experience I did last year (i.e. difficulty seeing the broadcast), the technical difficulties should have been corrected and we anticipate much better reception this year. The manual of demonstrations last year did include some useful information for new and experienced teachers of chemistry.

The topic this year, Materials Science, was chosen because of the high interest expressed on a questionnaire that randomly polled chemistry teachers in the nation. The registration fee is \$25/person who views or participates in the seminar which includes a resource booklet and resource material for classroom use. Hopefully it will be useful this year too.

For the live broadcast on November 7, one site in the Research Triangle Area is **the McKimmon Center on the North Carolina State University** campus. This is being arranged by Bill Switzer (919) 515-2945 and registration will be handled through the Science House at NCSU. A registration form is below and directions to the McKimmon Center follow the form.

An alternative site for the live broadcast in the southern part of the Section is the Office of Continuing Education at **Pembroke State University**. This viewing is hosted by the Department of Physical Sciences and is being arranged by Paul Flowers, (910) 521-6247. For information about the local arrangements, contact Paul directly. However, please register through The Science House at NCSU using the form below. Directions to the Office of Continuing Education at Pembroke State follow the registration form.

If you can not attend live, there will be one other opportunity to view the broadcast by tape delay. For those going to the NCSTA meeting for the annual state teacher's meeting November 9-11, this will be an especially busy week, but the video delayed version will be held on Wednesday, November 9 as a preconference NCSTA workshop. The preconference workshop has a maximum of 25 participants. Register for this viewing through the NCSTA; be sure to look for it in the program, if you cannot participate in a live seminar on the November 7. Follow instructions about registration in the program. Please make every effort to locate one of the three sessions to attend if possible.

A limited number of scholarships will be awarded for both live viewings. These will be awarded by drawing for all registrations received by Monday, November 1; checks will be returned to those receiving scholarships. Please use the registration form below **only** for registration at Pembroke State University and at the McKimmon Center on the campus of North Carolina State University. Registration for the presentation at the NCSTA meeting must be done through the NCSTA.

## REGISTRATION

"Teaching Chemistry, 1994: An Anthology on Using Materials Science to Teach Introductory Chemistry"

Video Conference, November 7, 1994

SITE (Mark one):

\_\_\_\_-North Carolina State University

\_\_\_\_-Pembroke State University

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

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

City, State, Zip: \_\_\_\_\_

School: \_\_\_\_\_

Phone (school): \_\_\_\_\_

Phone (evenings): \_\_\_\_\_

Please enclose a check for \$25, payable to the **North Carolina Section, ACS** and mail to:

Ms. Tracy Diggs  
Science House-8211  
North Carolina State University  
Raleigh NC 27695-8211

Refer phone questions to Bill Switzer, The Science House, NCSU, (919) 515-2945.

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Directions to the McKimmon Center at North Carolina State University. From the southern section of I-440, exit at Gorman Street in bound toward the University. The Center is located on the right side of the street at the corner of Gorman and Western Blvd. in about three miles.

Directions to Pembroke State University. PSU is about 15 miles west of Lumberton on Hwy 711. Enter campus at the main entrance on Hwy 711; after crossing the railroad tracks, the Office of Continuing Education is the second building on the right.

If none of these times or sites is convenient, you may contact the ACS Satellite Seminar Office at (202)872-6124 or (800)227-5558, FAX: (202)872-6336; or write ACS Satellite TV Seminars, 1155 Sixteenth Street, NW, Washington, DC 20036 to see if a closer site might be available that we do not know about.

A second satellite TV seminar for students is scheduled to air on Thursday, November 10<sup>th</sup>, 6:30 - 7:30 PM. The ACS Education Division is sponsoring **"Elements of Your Chemistry Career"**, a unique video conference **for undergraduates and high school students** considering a career in chemistry. This one-hour program is intended for undergraduate and high school students considering a career in chemistry. This program will be an opportunity to involve our students in National Chemistry Week. This broadcast will be carried live both at NCSU in Raleigh and Pembroke State University in Pembroke.

At NCSU, the broadcast will be held in Room 322, Withers Hall. Withers Hall is located on East Broughton Dr. on the main NCSU campus. This is the second building from Hillsborough St. almost across from the McDonalds. For off campus visitors, parking is a problem, but the site is located only two short blocks from the Riddick parking lot which is near the main visitors entrance off Pullen Rd.

At Pembroke State University, the location is the Office of Continuing Education. Directions were given above.

### Other News for High School Teachers:

For anyone interested in **Microscale Workshops for High School Teachers**, several are being held November 4-6 and 18-20, 1994, at Merrimack College in Andover, MA. They run from Friday evening until Sunday at 3:30 PM. Lodging, meals and tuition are all FREE! Enrollment is limited to the first 20 applicants, so contact Susan Brien, Administrative Assistant to Dr. Ronald Pike, Director, NMCC, Merrimack College, North Andover, MA 01945. Tel: (508) 837-5137; FAX: (508) 837-5222.

The primary objectives of the **North Carolina Student Academy of Science** are: 1) to promote and encourage the study of science, 2) to discover and encourage students with an interest and aptitude in science and 3) to facilitate students' use of their knowledge and abilities toward the improvement of themselves, their schools and their community.

The goal of the Academy is to function as a learned society. All those associated with its programs work together for the advancement of science in North Carolina. In working toward its goals and its objectives, the NCSAS provides opportunities for meeting other students from across the state with similar interests and ambitions. It serves as a resource or information center for students and teachers. The annual meeting of the NCSAS provides an opportunity for students to further their interest by having lectures, by presentations from professional scientists, by visiting campuses and laboratories of North Carolina colleges and universities, by taking field trips, and by attending and/or presenting reports on research and service projects.

There are two types of membership in NCSAS: chapter and individual. The chapter membership fee is \$10.00 annually plus \$1.00 per member. Individual membership for students from non-chartered schools is \$5.00. Members receive membership cards, newsletters, and invitations to district and state meetings. Membership is available to all students grades 6-12 in North Carolina.

For more information contact:

Mike Williams, NCSAS Executive Director  
Animal & Waste Management Center  
North Carolina State University  
Raleigh, NC 27695-7608  
(919)515-5386  
FAX (919)515-2615  
e-mail: Mike\_Williams@NCSU.edu

**ChemEd 95**, a conference for chemistry educators in elementary, middle/Jr. high, high school, college and university will be held at Old Dominion University in Norfolk, Virginia August 5-10th, 1995. Since it is so much closer than in recent years, you may want to plan to attend. To get information about registration and/or program proposals, you may contact: John Wass, Program Co-Chair, ChemEd 95, 1630 Holly Point Lane, Suffolk, VA 23436, (804)238-9937 (after 5pm). The proposals are due by December 15, 1994. If you plan to attend, ask to be put on the mailing list so that you will get the registration and program when it comes out. This is a wonderful opportunity to get together with folks from all over the country and to see and hear what others are doing in their classrooms.

For the fifth year, Toyota Motor Sales USA, Inc. will sponsor TAPESTRY, **Toyota's Appreciation Program for Excellence to Science Teachers Reaching Youth**. The program will award 40 grants of up to \$10,000 each to teachers of grades 6-12 who develop innovative projects to be implemented in their schools

and or districts. Descriptions of the other winning projects of this year's application are in the May/June 1994 issue of NSTA Reports. To receive this year's application kit, write to TAPESTRY, 1840 Wilson Blvd., Arlington, VA 2201. The entry deadline is January 26, 1995.

For single copies of "From the Lab Bench to the Classroom: A Program Planner's Guide to Developing Summer Fellowships for Classroom Science Teachers", a 28-page booklet., write on school letterhead to Public Inquiries, NIMH, 5600 Fishers Ln. Rm. 7C-02, Rockville, MD 20857.

Meanwhile, don't forget **Mole Day** is coming up.10/23 at 6:02! If you do something really neat with your students, how about sharing it with us?

Remember to let me know if there is information to include in this column. Sarah Allen, NCSSM, 1219 Broad St., Durham NC 27705; (919) 286-3366 X225; Internet: allen@odie.ncssm.edu

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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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