

The TarHelium



Volume 34, Issue 3

January 2004

CONGRATULATIONS TO OUR NEW 2004 OFFICERS



Keith E. Levine, *Editor*

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

Application Deadlines

**NCACS Awards (page 10) -
Application Deadline 2/27/04**

**Call for Papers (page 9) for
118th NC Local Section
Conference, Duke University,
4/17/04 - Submission Deadline
3/26/04**

**Application for NC Section
Undergraduate Scholarship
(page 8) - Application Deadline
4/23/04**



NCACS EXECUTIVE COMMITTEE

D. Coleman, Chair 2004
D. Morgan, Chair-Elect
S. Levine, Secretary
J. T. Burse, Treasurer

The TarHelium

Volume 34: Number 3
Keith E. Levine, *Editor*
RTI International
3040 Cornwallis Rd.
P. O. Box 12194
RTP, NC 27709-2194

Chair: *Darrell Coleman*

Chair-Elect: *Dan Morgan*

Secretary: *Sol Levine*

Councilor: *Alvin L. Crumbliss*
Richard Palmer

Alternate Councilor: *Nicholas Oberlies*
Laura Sremaniak



As in previous years, the 2003 chair-elect, Darrell Coleman, assumes the role of the 2004 NC-ACS section chair. Darrell was heavily involved in local section activities last year, including organizing the Local Section Conference in April and State Fair activities in October.

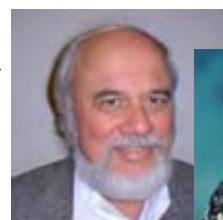
Since 1997, our new chair-elect, Dan Morgan, has served as a co-chair for the Triangle Area Mass Spectrometry (TAMS) Discussion Group. In this capacity, he has been responsible for developing an e-mail distribution system, the TAMS web page, and coordination of area meetings.



Sol Levine was re-elected as the NC-ACS secretary, a post where he has actively served the local section throughout the past two years. Joan Bursey will be returning as our treasurer, entering the second year of her two-year commitment.



Alvin Crumbliss and Richard Palmer will continue their active service to the NC-ACS by serving as local section councilors for three-year terms. They join Eric Bigham, Bob Morrison, and Jim Chao, who are also serving the local section as councilors.



UPDATE YOUR MAILING ADDRESS

With each mailing of the TarHelium, there are always some returned to the section (at a fee) due to an incorrect or obsolete address. To make sure you receive your local section information on time, notify the ACS with any address changes. To update your records online, just log onto

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



**NCACS
EXECUTIVE
COMMITTEE**

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G. H. Wahl, Jr.
C. M. Balik
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K. A. Cutler
E. L. Eliel
D. G. Morgan, TAMS
K. Caster, PDG
A. Malik, TCDG

**JOHN
MYERS
REMARKS**

Nicholas Oberlies and Laura Sremaniak will serve the local section as alternate councilors through 2006. They join currently sitting alternate councilors Bill Switzer, Dick Forbis, and Shawn Sendlinger.



Nicholas Oberlies



Laura Sremaniak

REMARKS FROM THE OUTGOING CHAIR

Dear Fellow Chemists of the N.C. ACS Local Section,

This past year has been exciting for the North Carolina Section of ACS, and 2004 promises to be an even more thrilling and challenging year. I want to thank all of our members who were involved in the host of activities that developed during 2003. Among the highlights were the dedication of an ACS Historic Landmark for the discoveries of Taxol and Camptothecin at RTI International, another ChemLuminary Award for our very energetic Younger Chemists Committee, three Siemens-Westinghouse semifinalists from our highly successful ACS Project SEED Program, almost two thousand visitors at the N.C. Museum of Natural Sciences on Chemistry Day, tens of thousands of visitors and over 50 ACS volunteers at the NC-ACS booth during the N.C. State Fair, thriving symposia and seminar programs organized by our Discussion Groups (PDG, TCDG, TAMSDG, TMRDG, and YCC), a diversity of presentations during our Local Sectional Conference at UNC-Chapel Hill, a selected participant for Chemistry Olympiad training, and strong representation by our five ACS Councilors at National Meetings.

During 2004, I urge and encourage you, as ACS members, to become even more involved in the activities that are being planned. For example, our Section will host the 2004 Southeastern Regional Meeting (SERM) of ACS in the fall, and the SERM Planning Committee – led by Sol Levine, Bill Switzer, and Richard Palmer – is developing an exciting program. However, we need many of you to volunteer now, to find ways to contribute, and to make this SERM the most successful ACS has seen.

On April 17th, Duke University will host our Local Section Conference. We need more of our members to attend the oral and poster presentations being made by an up-and-coming generation of chemists and to contribute to their development by offering constructive feedback and encouragement of their research efforts.

National Chemistry Week activities at the N.C. State Fair and the N.C. Museum of Natural Sciences will require a host of new volunteers in October, and I can assure you from experience that you will come away inspired and invigorated.

Our new Chair, Darrell Coleman, has planned for four ACS Tour Speakers to come during 2004. Watch TarHelium for the scheduled dates, come and participate, renew old friendships and meet new friends.

How will you develop your ACS membership during 2004? Will you mentor a Project SEED student in your laboratory? Will you join the Legislative Action Network? Will you mentor classroom teachers in new inquiry-based teaching and learning methods? Will you participate in a Discussion Group? Will you work with others to start a new Discussion Group or to re-activate the Senior Chemists Committee? Will you help with Earth Day or Chemagination activities? We want to work with you to ensure that your membership in ACS is a vital part of your life's work. Call on us, and get involved.

Thank you for all of your contributions in 2003 and in 2004.

*Best regards,
John A. Myers*

REMARKS FROM THE INCOMING CHAIR

Dear Fellow Chemists of the NC-ACS Local Section,

I'd like to welcome our new board members and new membership to the Section. There are so many exciting things going on in the Section that you can be a part of, and I hope you consider getting involved.

The Section can be very proud of what it accomplished throughout last year. We had many incredible events and programs. The Younger Chemists again won "Best Overall" YCC Section in the nation, which was their fourth Chemluminary in as many years of existence. Chris Lowden did a wonderful job running the YCC. I'd also like to thank Amanda Harper for her excellent organization and running of the National Chemistry Week Event at the Museum of Natural Sciences in Raleigh. This event included five different table activities and four demonstration shows running during the day and was a wonderful success with a record 1,960 visitors! The NC-ACS Section was again part of the State Fair and was one of the big draws for the Healthy Farms Healthy Families tent that included about 60 volunteers working in the booth to accommodate over 115,000 fairgoers! Ken Cutler had another great year running Project Seed, which had four SEED students among 15 from NC that made it to the Siemens-Westinghouse Semi-Finals. We also celebrated the Dedication of a National Landmark Event at RTI for the discovery of Taxol by Drs. Wani and Wall. There are many other things to be quite proud of from last year, which are a direct result of our strong volunteer support.

This year looks to be incredible, with many fun and exciting opportunities for everyone to participate in. The NC-ACS is hosting SERMACS 2004, which is kicking off on Nov 10th. This will be the most important event for us this year, attracting the most talented chemists in the Southeast and invited speakers from across the country. We are also bringing back the ACS Tour Speaker Service. This service gives us a chance to hear the best and most entertaining chemistry seminars from around the country. We are holding the Local Section Conference this year at Duke University on Saturday April 17th. NCW and the State Fair will again run over the third full week in October. We desperately need volunteers to create a State Fair Committee, as it looks like our organizers for the Fair are going to be highly involved with SERMACS. You might also consider joining one of our seven Discussion Groups/Committees (Chromatography, TCDG; Polymer, PDG; Magnetic Resonance, TMRDG; Mass Spectrometry, TAMSDG; Chemical Education/High School Chemistry Teachers, ChemEd; the Younger Chemists, YCC; and the Senior Chemists, SCC).

If you are interested in becoming a bigger part of the section, please let me know. I look forward to serving this section in 2004.

Darrell Coleman
dscoleman@lilly.com
919-306-2239

**DARRELL
COLEMAN
REMARKS**

Chao Reports on Recent Activities of the ACS Committee on Patents and Related Matters



James L. Chao has been one of the North Carolina Section councilors since 1992. He is now serving at the National level on the CPRM (Committee on Patents and Related Matters). Jim works at IBM to help identify and promote new emerging technologies from IBM's worldwide R&D laboratories for commercialization through its alphaWorks Web site.

Electronic Publishing Copyright - Do you like to read your scientific journals on-line? The Web has fundamentally changed business models affecting publications of the scientific literature in a scant 10 years. Prior to the Web, practicing scientists went to the library to read the about the latest scientific breakthroughs, or bought subscriptions to their favorite journals.

The electronic age has made the creation and distribution of scientific literature easy, fast, and oftentimes extremely profitable. This has resulted in a large number of publishers who generate scientific literature, the ACS being one of the most successful. Historically, the ACS has benefited from the breadth and quality of its chemical literature through journal subscriptions and the Chemical Abstracts Service. There are many publishers who presently compete with the ACS to distribute this targeted information quickly to subscribers. It is estimated that there are more than 28,000 scientific journals in the world today! The way they protect their business interest is through copyright laws of their published content.

Well, here is the latest rub. There are moves by scientists to avoid the high costs of journal subscriptions by publishing their findings first on the Web, in particular using a free online pre-publication such as the Public Library of Science (LoS). This has had a dramatic impact on where new research is published, particularly in pricey areas of science, such as medicine and physics journals. If this trend continues, private publications will increasingly find it difficult to stay in business. Unfortunately, the ACS will also be impacted by this trend and will have to determine whether its stewardship of the well-being of the US chemical enterprise overrides the commercial interest of operating a very large publication business.

The ACS board of directors has instructed relevant committee groups to evaluate the situation and to return suggestions for a policy which balances these competing interests. The ACS committee on Copyright, as well as the Committee on Patents and Related Matters, discussed the implications of a House bill (Szabo). This bill called for the mandatory publication of all federally supported research to be made available in timely manner, and free of charge, to the public by imposing a change in US Copyright law to make free copying the law-of-the-land.

In these discussions, most committee members voiced concern that this would adversely impact the ACS. Some of the predicted problems were 1.) Not enough money to cover peer-reviewed content 2.) Federal money should not compete with private business (taken that this is essentially a federal subsidy) 3.) Rush to publish, since this law would require fast public access to publication to maintain federal support 4.) Prior art questions since mandated publication of results might preclude ample grace period for patent disclosures. It appears at this time that the bill does not have enough traction in Congress to go anywhere. Nevertheless, the ACS wants to be prepared when these and similar discussions arise, so that we can voice our opinion quickly, and forcibly, if needed.

These are just some of the things you might like to think about yourself. Whether you would be in support of the free publication of your own scientific contributions on the Web, without significant intellectual property protection, or whether you would not.

21st Triangle Chromatography Symposium and Instrument Exhibit

TCDG



Thursday, May 20, 2004

McKimmon Conference and Training Center
North Carolina State University
Raleigh, NC

Sponsored by
Triangle Chromatography Discussion Group
& North Carolina Section of ACS

The Symposium will feature state-of-the-art presentations in diverse areas of chromatography by nationally known experts in these areas. Attendees will have the opportunity to interact with symposium speakers on specific chromatography issues and laboratory problems as well as receive GLP-training and continuing education to maintain essential laboratory skills. A registration certificate will be provided for GLP training files.

The Instrument Exhibit features the area's largest vendor concentration for chromatographic instruments and supplies. You will have the opportunity to exchange ideas and communicate with local colleagues on trends in chromatography and related areas. There were fifty-five exhibitors at the 2003 Symposium.

Other activities include:

Exhibitors Seminars where presentations will be made on state-of-the-art topics

Poster Sessions for local university and industry research and vendor developments, including a Poster Contest competition for students

Free Lunch which is served on-site as part of the registration fee

Prize Drawings (contributed by many of the TCDG exhibitors and a Grand Prize contributed

by the TCDG); and the TCDG election of 2004 officers.

21st Symposium Keynote Speakers:

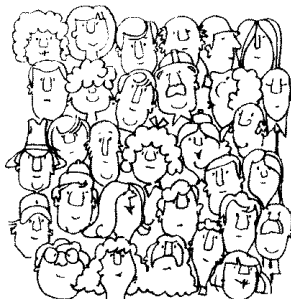
- * **Scott McLucky**, Purdue University
"Protein Identification/Characterization via Ion Trap Analysis of Whole Protein Ions"
- * **Pierre Monet**, Scynexis Chemistry and Automation, Inc
High-Throughput Purification and Characterization (HTPC) of Compound Libraries
- * **Steve Castellino**, GlaxoSmithKline
The Matrix Loaded: Finding Drug Metabolites in Biological Fluids
- * **Jonathan Sweedler**, University of Illinois – Urbana Champaign
"Understanding Neurochemistry Neuron by Neuron: Separation Tools for Single Cell Analysis"
- * **Tim Croley**, Center for Disease Control
"Chemical Warfare Agents: From Event to Analysis"
- * **David Hage**, University of Nebraska – Lincoln
"Chromatographic Immunoassays & Biointeraction Analysis: New Approaches for the Study of Biological & Environmental Agents"

For further information for potential attendees and vendors, visit the TCDG web site at: <http://www.RTPnet.org/tcdg>.

**TCDG
SYMPOSIUM**

WELCOME TO OUR NEWEST ACS MEMBERS

Dr. Oscar Alzate
Candice L. Bailey
Ellen O. Bilger
Dr. Mukesh Chhajer
Kathryn E. Connell
Alice C Debellis
Dr. Jyoti Dhar
Barry Wayne Farmer
Amran A. Gowani
Jian Jiang
Dr. Hyun Joo
Eileen S. Kelley
Jayme V. Knight
Woo Kyung Lee
Dr. Gregory K. Lewis
Patrick J. Mcdougall
Benjamin M. Petty
Dr. Krishna Kumar Ramanathan
Michelle M. Raquet
Murphy E. Ratcliff
Dr. Orlando J. Rojas
Chris Chengyu Shen
Josh D. Sieber
Dan Slone
Aaron C. Smith
Teresa Sopp
Elineth Torres
Yanqia Wang
Dr. Tatsuhiko Yamada
Dr. Rossitza G. Alargova
Urvashi K. Amin
Kirit G. Amin
Ann H. Batchelor
Annette Marie Bloomberg
Svetlana Burova
Thomas Mark Castle
Raymond E. Dagger
Bipin Kumar Dalmia
Olafs Daugulis
Randall Scott Deinhammer
David Erdman
Steven Travis Fannin
Lorianne Fought
Mohammad Ali Hamzavi-a
Christy L. Haynes
Andrea M. Ho
Deborah Houle Barnette
Angela Sykes Howard
Rohinikumari V. Joshi
John J. Kremer



Yanxin Li
Dr. Rihe Liu
Douglas Harris Lovern
Mary M. Lynam
Christopher John Markworth
Michael Anthony Moody
Paul E. Nicholas
Anne Oommen
Fang Qian
Lei Qian
Rickey Roy Rhinebarger
Dr. James K. Rosser
Amy Roy
Diti Sangal
Mark D. Schwinden
Dr. James C. Spitsbergen
Jessica J. Theisen
Carl Brian Thompson
Fang Tian
Dr. Jiansuo Wang
Tony W. Warren
Min Wei
Dequan Xiao

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MEMBERS**

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1-800-252-4752

Dennis Beaudry ext 6894
Tom Beaty ext 4622
Howie James ext 6429
Michael Keilholz ext 6371

Waters

RTI's Medicinal Chemistry Building Renamed in Honor of Dr. William F. Little

On November 4, 2003, colleagues, friends and family members of Dr. William F. Little gathered in front of RTI's Medicinal Chemistry Building (MCB) to witness the renaming of the building in his honor. Dr. Little has been a member of RTI's Board of Governors for 38 years and was key to founding the Research Triangle Park (RTP). In 1957, Governor Luther Hodges appointed him to the Research Institute Committee to evaluate the potential for creating a scientific center in the Triangle area.



"As a member of the Research Institute Committee, I served on another special committee made up of university faculty members that was tasked with putting together a gigantic compilation of scientific expertise and technology in the area. It was the basis for RTP and RTI," said Dr. Little,

who was an assistant professor of chemistry at UNC at the time.

Dr. Little holds a doctorate in organic chemistry and a master's degree in physical chemistry from the University of North Carolina at Chapel Hill. He also holds bachelor's degrees in chemistry, biology and mathematics from Lenoir-Rhyne College. At UNC, he held several professor positions, including University Distinguished Professor, and several administrative positions, including associate dean of the Graduate School for Research Administration and vice chancellor for Development and Public Service. He was also senior vice president and vice president for Academic Affairs for the UNC system, which is comprised of 16 institutions.

In addition to serving RTI in many capacities since 1957, Dr. Little has also served RTP as a member of the Board of Directors for the Research Triangle Foundation, which governs RTP, since 1986. He chaired its Executive Committee for most of that

time, until recently, and he currently serves as corporate secretary.

"When I heard about the decision to rename MCB in my honor, I was swept off my feet. It's an extreme honor and one that very few people have shared in," Dr. Little said.

NC SECTION TO HOST ACS SPONSORED SEMINARS

The North Carolina Section will be hosting two upcoming seminars as part of the American Chemical Society's speaker service. Details about these presentations follow below:

- Seminar 1 -

Date: Tuesday, February 10, 2004

Speaker: Dr. John J. Fortman
Wright State University

Topic: Humorous Chemistry on Popular TV Shows

Time: 6:00 p.m.

Location: Lilly, 20 TW Alexander Drive, RTP

- Seminar 2 -

Date: Tuesday, April 13, 2004

Speaker: Dr. Robert P. Bates
University of Florida

Topic: Pitfalls and Pleasures of Southeast Winemaking

Time: TBD

Location: GlaxoSmithKline, RTP

For additional information about these seminars, please contact Darrell Coleman (dscoleman@lilly.com).

RTI
HONORS
DR. LITTLE

ACS
SEMINARS

SERMACS 2004 UPDATE RESEARCH TRIANGLE PARK, NC

The 2004 Southeastern Regional Meeting of the American Chemical Society (SERMACS), hosted by the North Carolina ACS Section, will be held at the Sheraton Imperial Hotel in the Research Triangle Park from November 10th – 14th. For the first time in the region, this will be a joint meeting with the Two-Year College Chemistry Committee.

The SERMACS Planning Committee has intensified its activities as the meeting is now rapidly approaching. To date, there are 31 invited symposia and an equal number of corresponding general sessions. The topics are wide ranging and include the GSK Frontiers in Chemistry and Medicine Symposia, chemical education, laboratory automation, environmental chemistry, protein chemistry, and nanoscale materials. One planned highlight is a banquet to honor Ernest Eliel for his many contributions to chemistry, the ACS and our local section. Corresponding sessions honoring Dr. Eliel are also planned. In addition, there are 6 planned mixers, luncheons and banquets and a similar number of workshops (including an ACS short course).

A commercial exhibition is also included in the 2004 SERMACS plans (for additional information, please contact John Hines, hines@rti.org). There is still time to sponsor one of the planned sessions or events (please contact Sol Levine, General Chair, serm2004@mindspring.com).

Abstract submission and registration will be on-line beginning in April. Check the website (<http://membership.acs.org/S/SERM2004>) for continuing information. If you would like to be involved in helping with this meeting, please contact Sol at the email address listed above.

Sol Levine

General Chair, 2004 SERM Planning Committee

CALL FOR PAPERS – NC ACS 2004 SCHOLARSHIP AWARDS

Scholarships of up to \$1,000 will be awarded to undergraduate students who will actively be conducting research in the chemical sciences. The exact scholarship amount will depend on the number of awards. Only undergraduate students within the North Carolina Section of the ACS are eligible.

Scholarship money can be used to supplement the needs of the student's work in the laboratory in the form of research reagents, copies, books, and computer software. The scholarship money can not be used for tuition or housing costs! The scholarship grant becomes available for work beginning as early as the summer of 2004, and expires at the end of the spring semester in 2005.

Application Deadline: April 23, 2004.

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

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

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

SERMACS
2004

NC ACS 2004
SCHOLARSHIP
AWARDS

CALL FOR PAPERS**118th ACS LOCAL
SECTION MEETING**

*SATURDAY,
APRIL 17, 2004*

Duke University,
Gross Chemistry Building, Durham, NC

SUBMISSION DEADLINE:
Friday, March 26th, 2004

Authors are strongly encouraged to submit papers for this year's local section meeting on-line using the registration form found at the following URL:

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

If on-line submission is not possible, please fill out the form below and mail, e-mail, or fax the information to:

Dr. Dan G. Morgan
GlaxoSmithKline, Inc.
P.O. Box 13398
Research Triangle Park, NC 27709
(919) 483-4291 (V) (919) 315-8313 (F)

**CALL FOR
PAPERS -
ACS LOCAL
MEETING**

Title: _____

Presenter: _____

Affiliation: _____

Phone: _____

Email: _____

Address: _____

City: _____ State: _____ Zip: _____

Index co-authors with a number, for example:

Dan G. Morgan (1), William L. Switzer (2)
(1) GlaxoSmithKline, (2) NCSU

Co-authors: _____

Co-author affiliations, if different: _____

If the presenting author is a graduate student or post-doc, please provide the information below:

Research Director: _____

Affiliation: _____

Phone number: _____

Email: _____

Session (1-first choice, 2-second choice):

Analytical

Physical

Biochemistry

Other:

Organic

Medicinal

Chemical Education

Inorganic

Environmental

Polymer

Type of presentation:

Oral*

Poster

Either

* Oral presentations will be 15 minutes long plus 5 minutes for questions.

**MAIL IN
FORM**

CALL FOR NOMINATIONS: NCACS AWARDS

The Executive Committee invites all NCACS members to nominate worthy individuals for the Marcus E. Hobbs Service Award and the NCACS Distinguished Lecturer Award. Descriptions and past winners of these awards are listed below.

Both awards will be presented at the 2004 NCACS Local Section Conference.

Nomination packages should be forwarded to Dr. C. M. Balik, Chair - NCACS Awards Committee, at the address below. The nomination deadline for both awards is February 27, 2004.

Dr. C. Maurice Balik
Dept. of Materials Science and
Engineering
Campus Box 7907
North Carolina State University
Raleigh, NC 27695-7907
balik@ncsu.edu

The Marcus E. Hobbs Service Award - *The Marcus E. Hobbs award was established in 1988 to recognize members who have made significant, long-term contributions to the North Carolina Section of the American Chemical Society. The award was named for Marcus E. Hobbs, Department of Chemistry, Duke University, a model member who worked closely with the North Carolina Section since he served as Chair in 1945.*

For the Marcus Hobbs award, the nomination package should include a nominating letter summarizing the contributions the nominee has made to the NCACS and a CV. For the NCACS Distinguished Lecturer Award, the nomination package should include a nomination letter summarizing the nominee's research contributions, a CV and up to 2 additional letters of support.

Past Awardees:

- 2003 Alvin L. Crumbliss - Duke University
- 2002 Thomas A. Lehman - Environmental Science and Toxicology
- 2001 Richard A. Palmer - Duke University
- 2000 Richard D. Gilbert - North Carolina State University
- 1999 John W. Hines - Research Triangle Institute
- 1997 Suzanne T. Purrington - Department of Chemistry, North Carolina State University
- 1996 Ernest L. Eliel - Department of Chemistry, The University of North Carolina, Chapel Hill
- 1995 James L. Chao - IBM Corporation
- 1994 Joan T. Bursey - Radian Corporation
- 1993 William E. Hatfield - Department of Chemistry, University of North Carolina, Chapel Hill
- 1991 Eric C. Bigham - Burroughs Wellcome Company
Peter Smith - Department of Chemistry, Duke University
- 1989 William L. Switzer - Department of Chemistry, North Carolina State University
Halbert H. Carmichael - Department of Chemistry, North Carolina State University
William F. Gutknecht - Research Triangle Institute
- 1988 Maurice M. Bursey - Department of Chemistry, University of North Carolina, Chapel Hill
Robert G. Ghirardelli - Army Research Office
Marcus E. Hobbs - Department of Chemistry, Duke University
William F. Little - Department of Chemistry, University of North Carolina, Chapel Hill
Monica R. Nees - Research Triangle Institute

NCACS Distinguished Lecturer Award - *This award is given annually to a NCACS member who has made significant and recognized research contributions to the chemical sciences.*

Past Awardees:

- 2003 Mansukh C. Wani, Research Triangle Institute
- 2002 Myung-Hwan Whangbo, North Carolina State University
- 2001 Aziz Sancar, University of North Carolina, Chapel Hill
- 2000 Radhakrishna M. Jayanty, Research Triangle Institute
- 1999 Louis D. Quin, Duke University

MARCUS HOBBS SERVICE AWARD

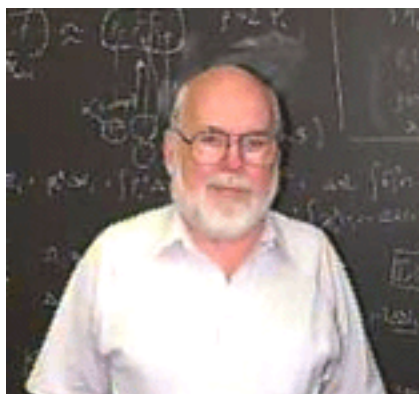
NCACS DISTINGUISHED LECTURER AWARD

- 1997 Monroe Wall, Research Triangle Institute
 1996 Roger E. Miller The University of North Carolina, Chapel Hill
 1994 James Jorgenson, The University of North Carolina, Chapel Hill
 1993 F. Ivy Carroll, Research Triangle Institute
 1992 Maurice S. Brookhart, The University of North Carolina, Chapel Hill
 1991 Bertram O. Fraser-Reid, Duke University
 1990 Richard V. Wolfenden, The University of North Carolina, Chapel Hill
 1989 Royce W. Murray, The University of North Carolina, Chapel Hill
 1988 Irwin Fridovich, Duke University
 1987 Pedro Cuatrecasas, Burroughs Wellcome Company
 1986 Mary Ellen Jones, The University of North Carolina, Chapel Hill
 George H. Hitchings, Burroughs Wellcome Company
 Prior to 1986: Ernest L. Eliel; Edward M. Arnett; Ned A. Porter; Robert G. Parr; Vivian T. Stannett; Gertrude Elion

Triangle Scientists Co-Author Second Most Cited Paper in All Chemistry

According to Chemical Abstracts Service, two scientists at UNC-Chapel Hill and Duke University, and a UNC doctoral graduate now at Cray Research Laboratories in Minnesota, are co-authors of the second most cited paper in the field of chemistry, for each of the years 1999, 2000, 2001, and 2002.

The authors are: Chengteh Lee, a senior scientist at Cray; Weitao Yang, now the Philip Handler professor of chemistry at Duke; and Robert Parr, a distinguished professor of chemistry at UNC.



Robert Parr

It all began more than 15 years ago when Lee and Yang, then UNC graduate students from China, were doing research with Parr, their faculty mentor, exploring electron correlation, the detailed way that electrons dodge each other when they come close together. They developed an accurate new method to treat correlation, which soon became widely used around the world for the theoretical calculation

of molecular structure and molecular properties.

Their paper, "Development of the Colle-Salvetti Correlation Energy Formula into a Functional of the Electron Density," was published in the journal *Physical Review A* in 1988. The paper was derived from Lee's doctoral thesis.

Lee received his Ph.D. from UNC in 1987. Yang, a postdoctoral fellow in 1988, received his in 1986. Parr received the North Carolina Award in Science in 1999 from Governor Jim Hunt.

*Submitted by Dee Reid
The University of North Carolina at Chapel Hill*



YCC PARTY/ELECTIONS

Date: February 6 '04 **Time:** 6:00 p.m.

The NC Younger Chemists' Committee (YCC) will be celebrating another very successful year and holding annual elections at **OUT OF THE PARK**. This sports bar has several big-screen TVs, pool tables, darts, and excellent food. **OUT OF THE PARK** is located in Morrisville ½ mile past the Airport Outlet Mall off of I-40 (exit 284). Please RSVP if you can make it (christopher.lowden@rtp.ppsi.com).

For more information about **OUT OF THE PARK**, check out their website. <http://outofthepark.com/>

**CHEMISTRY
CITED PAPER**

**YCC PARTY/
ELECTIONS**

The TarHelium Volume 34: Number 3

Keith E. Levine, Editor
RTI International, 3040 Cornwallis Road
P. O. Box 12194, RTP, NC 27709-2194

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Executive Committee:

D. Coleman (<i>Eli Lilly-Sphinx</i>), Chair '04	314-4352	dscoleman@lilly.com
D. G. Morgan (<i>GSK</i>), Chair-Elect '05	483-4291	dm19700@gsk.com
S. Levine (<i>NCSU, Ret.</i>), Secretary '04-'05	676-3740	naturpix@mindspring.com
J. T. Bursey (<i>ERG</i>), Treasurer '03-'04	468-7926	joan.bursey@erg.com
K. E. Levine (<i>RTI</i>), TH Editor 2003-present	541-8886	levine@rti.org
A. L. Crumbliss (<i>Duke</i>), Councilor '04-'06	660-1540	alc@chem.duke.edu
R. A. Palmer (<i>Duke</i>), Councilor '04-'06	660-1539	rap@chem.duke.edu
J. L. Chao (<i>IBM</i>), Councilor '03-'05	543-3054	jlchao@us.ibm.com
E. C. Bigham (<i>GSK</i>), Councilor '02-'04	483-9844	ecb12781@gsk.com
R. W. Morrison, Jr. (<i>NCSU</i>), Councilor '02-'04	515-2549	robert_morrison@ncsu.edu
N. Oberlies (<i>RTI</i>), Alt. Councilor, '04-'06	541-6958	oberlies@rti.org
L. Sremaniak (<i>NCSU</i>), Alt. Councilor, '04-'06	515-2937	lssreman@pams.ncsu.edu
R. M. Forbis (<i>UNC</i>), Alt. Councilor, '02-'04	962-2096	dick_forbis@unc.edu
S. Sendlinger (<i>NCCU</i>), Alt. Councilor, '03-'05	560-6297	ssendlin@wpo.nccu.edu
W. L. Switzer (<i>NCSU</i>), Alt. Councilor '02-'04	515-2945	bill_switzer@ncsu.edu
J. A. Myers (<i>NCCU</i>), Past Chair '03	530-6461	jmyers@upo.nccu.edu
S. J. Sumner (<i>CIIT</i>), Past Chair '02	558-1343	sumner@ciit.org
G. H. Wahl, Jr. (<i>NCSU</i>), Past Chair '99	515-2941	george_wahl@ncsu.edu
C. M. Balik (<i>NCSU</i>), Past Chair, '01	515-2126	balik@ncsu.edu
M. M. Bursey (<i>UNC</i>), Ex Officio	493-3025	mbursey@acs.org
K. A. Cutler (<i>NCCU</i>), Project Seed Ex Officio	530-7004	kcutter@wpo.nccu.edu
E. L. Eliel (<i>UC</i>), Ex Officio	962-6198	eliel@email.unc.edu
D. Canelas (<i>Lord</i>), PDG, Ex Officio	469-2500	dorian_canelas@lord.com
A. Malik (<i>Wyeth</i>), TCDG, Ex Officio		malik@wyeth.com
T. M. O'Connell (<i>GSK</i>), TMRDG, Ex Officio	483-1535	tmo89509@gsk.com

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