

The TarHelium



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The TarHelium

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Keith E. Levine, *Editor*
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James and Levine Named 2005 Marcus E. Hobbs Award Recipients

Marcus E. Hobbs awards were presented to Howie James and Sol Levine at the 119th NC-ACS sectional conference at North Carolina State University on April 30, 2005. This 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 (Duke University, Department of Chemistry), a model ACS member who has worked closely with the North Carolina Section since he was Chair in 1945.



Howie James



Sol Levine

Howie James has been a member of the American Chemical Society for 39 years, and also is a member of Sigma Xi. Howie was involved for several years on the ASTM D20.70.04 subcommittee on size exclusion chromatography and was co-editor of the ASTM Bibliography on Liquid Exclusion Chromatography. Prior to joining Waters Corporation in 1977, he spent several years in polymer research with the General Tire & Rubber Co., Calgon Corporation, and Standard Oil of Ohio. He has held various field sales and marketing positions while at Waters and is currently an Executive Technical Sales Representative.

Howie has been an active participant in the Triangle Chromatography Discussion Group (TCDG)

almost from the moment he arrived in the Triangle area in the 1980's. During this time, he has been an active contributor in planning and executing TCDG activities such as workshops, seminars, and the annual Triangle Symposium and Instrument Exhibit. Most recently, Howie has served the TCDG as Acting President (filling a vacant position in a time of group need), the elected Program Chair (President-Elect), and then President of the TCDG (1999). Howie has selflessly shared his experience, time, and energy with

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 TMRDG
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the TCDG throughout his involvement with the group. In addition to his direct contributions to the group, he has also found ways to contribute as a liaison with other discussion groups in the area (e.g., the South Carolina Laboratory Management Society, the Western Carolina Chromatography Discussion Group). His efforts with, and participation in, these groups translated into a sharing of information and ideas which would not have been otherwise available.

Sol Levine is also a long-time member of the American Chemical Society. After taking early retirement from IBM, Sol moved to the Triangle area in the 1990's, where he has worked in teaching positions at North Carolina Central University, Durham Technical Community College, and North Carolina State University.

Upon arriving in North Carolina, Sol immediately became involved with the Local Section by serving as Registration Chair for the 1998 Southeastern Regional meeting. He was the "guinea pig" registration chair for the first ever attempt at online registration at a regional meeting. This meant that he often had to enter the registration information himself because of the inevitable software bugs. After the 1998 Regional Meeting, he was elected Local Section Secretary for two consecutive terms and then stepped up to serve as General Chair of the 2004 Southeastern Regional Meeting. Most recently, he volunteered to serve as the Local Section Chair for 2005, filling a vacant position during a time of need. He also represents the NC Section at the regional level, having been elected to a 3-year term as treasurer of the Southeastern Regional Meeting Corporation. Sol has made and continues to make an admirable contribution to both Local Section and Regional ACS activities. Although it is unusual to nominate a standing section Chair for the Marcus E. Hobbs service award, Sol Levine's history of involvement is unusual and outstanding.



SERMACS 2005

The 57th Southeastern Meeting of the American Chemical Society (SERMACS) will be held at the Peabody Hotel in Memphis, Tennessee from November 1 – 4, 2005. The conference will be hosted by the Memphis Section of the American Chemical Society, and will be a joint meeting with the Southwest Region (61st SWRMACS). Special conference events include an exhibition featuring vendors from all areas of chemistry (November 2 – 3), a graduate school fair with representatives from prominent chemistry and biochemistry programs (November 4), the Southern Chemist Award address, and Industrial Innovation Award presentations.

Information about meeting registration, conference contacts, housing, the technical program, and special events is available online at:

<http://chemistry.chem.memphis.edu/ACS/seswrn.html>.

FINAL CALL FOR ACS LOCAL SECTION OFFICER NOMINATIONS

The Executive Committee of the North Carolina American Chemical Society (NC-ACS) is issuing a final call for officer nominations for the 2006 calendar year. All elected officers of the Section serve on the Executive Committee that normally meets on a monthly basis during the academic year. The following positions are open:

Chair-Elect (2-year term)

During the first year, the Chair-Elect organizes the Local Sectional Conference in April, assists the Chair with management of the section, and represents the Chair in his or her absence. The Chair-Elect then serves as Chair in the second year of the term.

Secretary (2-year term)

The Secretary maintains all current files and records of the section.

Councilor (3-year term)

(one position open)

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

Alternate Councilor (3-year term)

(one position open)

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

Self-nominations are also welcome. We need your participation in the leadership of the Section. Full job descriptions for each of these positions can be found on our web site:

http://membership.acs.org/N/NCarolina/job_manual.html

Please send names of nominees to Darrell Coleman (dscoleman@bellsouth.net) as soon

as possible. Biographical sketches of the candidates will be published along with the local section's ballot in the November issue of the TarHelium.

National Chemistry Week "The Joy of Toys" October 16 – 22, 2005

To celebrate National Chemistry Week, the Local Section is teaming with staff from the North Carolina Museum of Natural Sciences in Raleigh to provide a day of fun and educational activities to the community. Chemical demonstrations, interactive experiment booths, and a poster contest for K – 12 students within the Local Section will focus on this year's National Chemistry Week theme: *The Joy of Toys*. As a new addition to this year's event, general information about careers in chemistry will be provided to attendees from area employers. The event will be held at the museum in downtown Raleigh on Saturday, October 22 from 10 am – 4 pm. Museum visitor information (including maps, directions, and parking) is available online at:



<http://www.naturalsciences.org/visinfo/index.html>.

Last year, over 1,600 people of all ages and backgrounds packed the museum exhibit hall to participate in the event. If you would like to help deliver a positive message about the contributions of chemistry to people within our area, please volunteer by contacting the Local Section's National Chemistry Week coordinator, Meredith Storms (stormsm@uncp.edu; 910-521-6427).

2006
NCACS
Officer
Nominations

National
Chemistry
Week
10/16/05

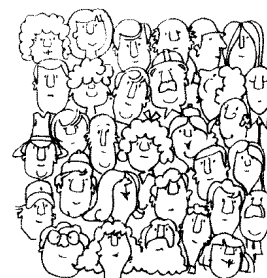
New
NCACS
Members

WELCOME TO OUR NEWEST NORTH CAROLINA ACS MEMBERS

MARC J ADLER
SANJEEV AHUJA
RACHEL ALLENBAUGH
LEE BAKER
MARIA A CAICEDO
DANIEL J CLINE
DARYL COBRANCHI
ALAIN J CREISSEN
JASON M DINSMORE
LINDA ELLIS
JOHN J EVANS
FLORENCE C FEVRIER
TIMOTHY D FORNES
SHERRY L GREGORY
SENLI GUO
GALEN RICHARD HATFIELD
SUSANN L HECKMAN
JAMES N IADEMARCO
ROY IMMELMAN
ANDREW B JACKSON
R ARDEN JAMES
CARL ANTHONY JENNINGS
HARRY BYRON KECK
VASILY N KOROTCHENKO
DENNIS JOHN KUBEK
JOHN JOSEPH LENNON

PO YAM LUI
APRIL LUKE
KATHLEEN M MAGOLAN
TERRENCE JAMES MALONEY
ALEXANDER J MARCHUT
ROSA M MCMILLIAN
ROBERT W MILLER
JASON D NICHOLS
MEGAN J NIKOLAI
DAVID T NUTTALL
ASHISH PANDYA
KIMBERLY H PARKER
JACK K PETERSON
ADAM M PROWATZKE
WILLIAM JOHN ROBERTS
SURINDER SABHARWAL
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GOTTFRIED K SCHROEDER
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JOHN B SHOTWELL
JASON T SMITH
MARK A SOCHASKI
CHARLES T SPENCER
BALINT SZTARAY
SABRINA TACHDJIAN

JESSE A TESKE
VAN-DEN TRUONG
MIKE VALAZQUEZ
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Call for Volunteers: ACS Participation at the 2005 North Carolina State Fair



The NC-ACS Section will again participate in the North Carolina State Fair. However we will only present chemistry stage shows in the "Our Land, Our Legacy" tent. We will not have the usual booth, but we still need your help with the live presentations. All members of the Local Section (YCC, SCC, student affiliates and any others) are encouraged to participate. Volunteers will be paired with other volunteers who have worked at the fair before. Volunteers will receive free admission to the fair and also will have the chance to earn a State Fair shirt. Please find the details below:



When: October 14 – 23, 2005

Where:

State Fairgrounds, Raleigh, NC. Additional information about the North Carolina State Fair (including entertainment, competitions, exhibits, directions, and maps) is available online (<http://www.ncstatefair.org/2005/>).

About our Stage Shows:

The times of presentations have not been assigned yet, but we are expecting at least 4 presentations each day. Volunteers are asked to help with managing the crowds, answering questions about the presentations and presenting stage shows (if that is a comfortable activity).

Tickets & Parking:

Admission to the fair is free for volunteers, and we will have access to a limited number of parking passes.

Company Logos:

If employees from your company volunteer, we will be happy to display your company logo as part of a PowerPoint presentation given during our stage shows.

Questions?

Contact any of the following organizers:

Jim Ellenson
(jellenson@nccu.edu)

Vern Summerfelt
(vsummerfelt@nc.rr.com) or

Bill Switzer
(bill_switzer@ncsu.edu)

Ready to Volunteer?

Contact any one of the above organizers, or fill out the on-line form (<http://www.ncsu.edu/chemistry/outreach/ncacs/sfvolunteers.html>).



2005
NC
State Fair
10/14/05

2005
NCACS
Scholarship
Awards



NC ACS 2005 Undergraduate Scholarship Awards

The scholarship committee of the North Carolina Section of the American Chemical Society has selected the 2005 NC-ACS undergraduate scholarship recipients. The committee received a total of 25 applications from students at Duke University, North Carolina Central University, North Carolina State University, and the University of North Carolina at Chapel Hill. The scholarship awards will be used to fund chemistry research and will be appropriated for the purchase of laboratory supplies and materials. The award recipients are:

Gregory W. Charville

UNC - Chapel Hill
Research Advisor -
Mark Schoenfisch
NC-ACS 1st Place Award: \$2,000

Mark Adam Eckert

NC State University
Research Advisor - Lin He
NC-ACS Runner-up Award: \$1,250

Kimberly Hung

UNC - Chapel Hill
Research Advisor - Linda Spremulli
NC-ACS Runner-up Award: \$1,250

Congratulations to the award winners and to all of the students who submitted applications! We hope that all of you will continue your studies in chemistry. For information regarding future NC-ACS undergraduate scholarship awards, please check online (<http://membership.acs.org/N/NCarolina/>) or contact Bryce Chaney (Bryce_Chaney@bd.com) for application instructions.

Local ACS Discussion Groups

**Chemical Education Discussion
Group:**

[http://membership.acs.org/N/
NCarolina/chemed/index.html](http://membership.acs.org/N/NCarolina/chemed/index.html)

Polymer Discussion Group:

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

**Triangle Chromatography Discus-
sion Group:**

<http://rtpnet.org/~tcdg/index.html>

**Triangle Area Magnetic Resonance
Spectrometry Discussion Group:**

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

**Triangle Area Mass Spectrometry Dis-
cussion Group:**

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

Younger Chemists Committee:

[http://membership.acs.org/N/
NCarolina/ycc/index.html](http://membership.acs.org/N/NCarolina/ycc/index.html)

NCACS
Discussion
Groups

NCCU Names New Science Complex After Professor Mary M. Townes

Article from NCCU Today, May 5, 2005 Issue

North Carolina Central University (NCCU) has named its new science complex after Mary M. Townes, a faculty member who provided nearly 44 years of service to the university. The \$36 million Mary M. Townes Science Building will eventually house six academic departments.

Townes bequeathed \$1 million to the University to establish The Mary M. Townes Continuing Education Scholarship Fund. Prior to her death in 2003, Dr. Townes gave an anonymous gift of \$239,000. Upon her death, she bequeathed more than \$761,000 to the university.

The initial request to have the building named after Dr. Townes came from the Association of Retired NCCU Personnel. In a letter to the Naming committee, Dr. Arthrell Sanders wrote, "For the University to name the new science complex for her would not only honor her memory, the naming would also give greater credence to the institution's commitment to its mission, its history and its legacy."

Born July 12, 1928, to Nora McPhatter and Mitchell McLean in Southern Pines, N.C., Dr. Mary M. Townes began her teaching career at NCCU in 1950. She was the university's first director of the faculty-based Academic Advising Program. Dr. Townes was also the first coordinator of the NCCU Graduate Research Program. She published more than 60 articles in the Journal of Cellular and Comparative Physiology, The Journal of Comparative Biochemistry and Physiology, The Journal of the Elish Mitchell Scientific Society, The Journal of Chemical Education and the

Encyclopedia International. In 1993, Dr. Townes became the university's first recipient of the North Carolina Governor's Award of Excellence, and in 1994, was awarded the National Association for Equal



Opportunity Distinguished Alumna Citation. During her 44 years of service, Dr. Townes served as chair of the Department of Biology for four years, dean of Graduate Students for seven years and dean of the College of Arts and Sciences for four years until her retirement in July 1994.

NCCU
Names
Science
Complex



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**Call for
Nominations
2006
Esselen
Award**

**Call for Nominations -
2006 Esselen Award for
Chemistry in the Public Interest**

The Northeastern Section of the American Chemical Society is pleased to invite nominations of worthy candidates for the Gustavus John Esselen Award for Chemistry in the Public Interest. The award recognizes a chemist for outstanding achievement in scientific and technical work that contributes to public well-being. The award consists of a \$5,000 prize and a medal of recognition. The presentation takes place at an award ceremony in April at Harvard University, followed by a formal address by the award recipient.

**Presidential
Award for
Excellence
in Science,
Mathemat-
ics, & Engi-
neering Men-
toring**

The Esselen Award had no limitations with respect to the chemical field or geographical area in which nominees are active. Recent Esselen Award recipients from the North Carolina ACS Section include:

2004: James W. Jorgenson
University of North Carolina at Chapel Hill
The Magic of Capillaries in Chemical Separations and Analysis

2001: Joseph M. DeSimone
University of North Carolina at Chapel Hill and North Carolina State University
Green Chemistry for Sustainable Economic Development

For additional information about candidate nomination, please check online at: <http://www.nesacs.org/Awards/Esselen/esselen.html>. Nominations should be posted no later than October 15, 2005.



**ACS Scholars Program
and Project Seed Win 2001
Presidential Award for Excellence
in Science, Mathematics, &
Engineering Mentoring**

The American Chemical Society sponsors scholarship programs for qualified applicants who want to enter the fields of chemistry, biochemistry, or chemical engineering, and students seeking a two-year degree in chemical technology. The programs are designed to encourage African-American, Hispanic, and American Indian students to pursue undergraduate college degrees in the chemical sciences and chemical technology. The goal of these scholarship programs is to aid in building an awareness of the value and the rewards associated with careers in science and to assist students in acquiring the skills and credentials needed for success in these areas.

The scholarships are awarded on the basis of merit and financial need to high school seniors



planning a science preparatory program of study, and college students who are currently freshmen, sophomores, or juniors who are committed to the study of chemistry, biochemistry, chemical engineering or other chemically related fields such as environmental science, materials science or toxicology and are interested in pursuing careers in one of these fields. Students interested in two-year chemical technology programs and careers in this field are also eligible. Students must have strong academic records and show an interest in and potential for careers in the chemical sciences. Students intending to pursue careers in medicine are not eligible for scholarship awards.

The amount of each individual award will depend upon the availability of funding, the number of scholarships awarded, and evidence of financial need. Scholarships will be given up to a maximum of \$3,000 per year. The awards in the ACS Scholars Program, as well as those in the co-sponsored programs are renewable.

Edward T. Samulski Named State Department Jefferson Science Fellow

*Article from College of Arts and Sciences
Science at UNC Chapel Hill*

U.S. Secretary of State Condoleezza Rice introduced UNC distinguished chemist Edward T. Samulski as a new Jefferson Science Fellow, chosen to offer science counsel to the U.S. Department of State, at a Tuesday (May 24) afternoon ceremony held in the State Department's Benjamin Franklin Room.

Samulski, Cary C. Boshamer professor of chemistry in the University of North Carolina at Chapel Hill, is one of five tenured professors nationwide to receive the prestigious State Department honor.

Former Secretary of State Colin L. Powell established the program in October 2003 to continue elevating the role of science and technology in U.S. foreign policy. The program brings renowned science professors from American universities to the State Department for one-year assignments, followed by a five-year consultancy after they return to their academic careers. The

Jefferson Fellows are chosen through a competition administered by the National Academy of Sciences and the Office of the Science and Technology Adviser to the Secretary of State. They are selected for their scientific achievements, articulation and communication skills, abilities to accurately describe scientific topics for non-scientific audiences and their interest in science and engineering policy.

"The Jefferson Fellowship honors one of our nation's most brilliant and innovative presidents, and the fellowship program is designed to bring such people to help our government with the challenges of our society and our science," said Bruce Carney, senior associate dean for the sciences and the Samuel Baron distinguished professor of physics and astronomy at UNC. "Ed Samulski is being honored above many other extremely talented faculty from across the nation. The honor is well-deserved, and I have no doubt that his service will be of great value to all of us," he added.

"This new program is superbly designed to enable science and policy to interface," said Samulski. "Its creators have done a brilliant job

(Continued on page 10)

**Samulski
Named
Jefferson
Science
Fellow**



Professor Edward T. Samulski (last on right) honored by U.S. Secretary of State U.S. Secretary of State Dr. Condoleezza Rice."

(Continued from page 9)

of ensuring that nonpartisan, objective information can be provided and integrated smoothly into policy decisions.”

Samulski said he was looking forward to the challenge of working in areas with which he was not as familiar. “I think they are interested in having people who can look at a wide range of scientific subjects analytically and anticipate the implications for policy. This kind of problem solving is very appealing to me.

“Science is a universal language, with the capacity to unite individuals and nations around the globe. Its importance can only increase over the coming decades as the world shrinks and the playing field levels. To be able to contribute to this future is an honor for me.”

**Project
SEED 2005
Symposium**

NC-ACS Project SEED 2005 Symposium

On July 29th, seven Project SEED II participants presented their research findings at the 2005 Final Symposium held at the CIIT Center for Health Research in the Research Triangle Park. Mr. Kenneth Cutler, Program Director for the North Carolina ACS Project SEED Program, served as Master of Ceremonies. The NCACS Project SEED Advisory Committee has learned that, on average, each of the seven Project SEED participants was offered approximately \$80,000 in undergraduate scholarship funds over four years. The participants and their faculty research advisors are listed below:



Charrise Phillips

Advisor – Dr. Marcey Waters
University of North Carolina at Chapel Hill

Emily Connelly

Advisor – Dr. Thomas LaBean
Duke University

Natasha Duggan

Advisor – Dr. Louise Ball
University of North Carolina at Chapel Hill

Catherine Ekeleme

Advisor – Dr. Michael Fitzgerald
Duke University

Justin Gorham

Advisor – Dr. David Beratan
Duke University

Johnaustin Chapman

Advisor – Dr. Maurice Brookhart
University of North Carolina at
Chapel Hill

Ruby Jackson-Atogi

Advisor – Dr. Louise Ball

University of North Carolina at Chapel Hill Project SEED was established by the ACS in 1968 to provide opportunities for economically disadvantaged high school students to pursue careers in the chemical sciences. Students sponsored by the North Carolina Local Section were placed in university laboratories for eight weeks during the summer to do hands-on research. If you would like to learn more about Project SEED, please contact Mr. Kenneth Cutler (NCProjectSEED@aol.com).

ACS President William F. Carroll, Jr. to Speak in Research Triangle Park

The North Carolina Section of the American Chemical Society and the Sigma Xi scientific research society will be hosting a seminar by ACS national president, Dr. William F. Carroll, Jr. (Bill). The seminar will be entitled, "The Chemistry Enterprise: Do We Have a Future or What?", and will be presented at the Sigma Xi Center in the Research Triangle Park on Thursday, October 6, 2005. The talk (please see abstract below) will begin at 8:00 pm, and a reception with light refreshments (coffee, soft drinks, dessert) will be held in Dr. Carroll's honor immediately following the seminar. Pizza will also be provided by the Local Section's Younger Chemists Committee at 7:30 pm. There will be no charge to attend the seminar and food and beverages will be complementary.



Although registration for the seminar is not required, please contact Dr. Sol Levine (naturpix@mindspring.com) if you are interested in attending so that we can have an approximate head count for ordering food.

Directions to the Sigma Xi Center and a map are available online at: <http://www.sigmaksi.org/about/center/directions.shtml>

Prior to presenting his seminar, Dr. Carroll will be speaking to local area college students at 10:40 am in room 1111 at North Carolina Central University's Mary M. Townes Science Center. For additional information about this outreach event, please contact Dr. John Myers (jmyers@ncsu.edu).

The Chemistry Enterprise 2015: Do We Have a Future, or What?

The Chemistry Enterprise - for industry, education and government - in the US is changing. For industry, energy and raw material supply is becoming a key factor for

the commodity manufacturers. Chemical markets in developing countries are growing; specialties are becoming commoditized with expanding capacity. Global companies serve global markets; services are available globally even to small companies. In education, there are questions about the global mobility of students for both undergraduate and graduate education. The ability to hire and retain professors is changing, as is the approach to tenure and full-time positions. Governments are reconsidering taxation and other incentives to maintain and attract chemical businesses. Intellectual property protection is spotty.

Looking forward to the next ten years, the chemistry enterprise the world over is poised for rebalancing. This presentation provides a short summary of issues impacting the US and its position in global chemistry, and a review of our program wherein American Chemical Society committees, divisions, leaders and members have built a vision for the next ten years.

**ACS
W. F. Carroll
to Speak**

QUOTES TO PONDER

"Imagination is more important than knowledge."

--Albert Einstein



"Always do right. This will gratify some people, and astonish the rest."

--Mark Twain

"You gain strength, courage, and confidence by every experience in which you really stop to look fear in the face. You must do the thing you think you cannot do."

--Eleanor Roosevelt (1884-1962)

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THE TARHELIUM

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The NC Section of the ACS offers two services which may be of interest to members: 1) a listserver and 2) a web page: <http://membership.acs.org/N/NCarolina/>.

The listserver is used for ACS meeting announcements and for job announcements. Unlike some lists, the number of postings is quite limited--usually no more than 3 or 4 a month. This list is moderated, which means that all messages must be approved by the list owner before they are posted. If you have a valid opening within the NC Section, please mail an appropriate announcement to bill_switzer@ncsu.edu. Very occasionally openings outside of the NC Section are posted. If you wish to subscribe, address mail to: mj2@lists.ncsu.edu. The subject field is ignored, but in the message field type: **subscribe NCACS**. Your return address becomes your subscription address. These instructions as well as those for removing your name are linked to the web page.

If you have not looked at the web page recently, please do so. The Executive Committee is committed to making this page a useful resource. It is constantly being updated to include new information. Please feel free to suggest additional links and PLEASE offer to take responsibility for maintaining one or more of the local links. Contact: bill_switzer@ncsu.edu.