



# The TarHelium

Volume 31, Number 3

January, 2001



## STATE OF THE SECTION

- *Local Section Election Results*
- *Letter from New Chair*
- *Call for Papers*
- *NC-ACS Listserv in Review*
- *Technical Programs* run by the following discussion groups: Triangle Area Mass Spectrometry Discussion Group (TAMSDG), Polymer Discussion Group (PDG), Triangle Chromatography Discussion Group (TCDG), Triangle Magnetic Resonance Discussion Group (TMRDG), Triangle Molecular Modeling Discussion Group (TMMDG) and Younger Chemists Committee (YCC).

## Congratulations to Our New NC-ACS Officers



<i>Chair:</i>	Dr. C. Maurice Balik
<i>Chair-Elect:</i>	Dr. Susan Sumner
<i>Treasurer:</i>	Dr. Joan Bursey
<i>Councilors:</i>	Dr. Alvin L. Crumbliss
	Dr. Richard A. Palmer
<i>Alt. Councilors:</i>	Dr. Suzanne Purrington
	Dr. Edward T. Samulski

Our 2001 chair, **Dr. C. Maurice Balik** (balik@ncsu.edu), has some great new people to work with in the year 2001. Our new chair-elect **Dr. Susan Sumner** (sumner@ciit.org) from the CIIT (Centers for Health Research) is energetic and excited about the local section conference in April. Our returning treasurer, **Dr. Joan Bursey** (jbursey@erg.com) from Eastern Research Group will continue in her efforts to keep our financial records in order..... not a small task. We have two returning councilors, **Dr. Alvin L. Crumbliss** (alc@chem.duke.edu) and **Dr. Richard A. Palmer** (rap@chem.duke.edu) both from Duke University. Dr. Crumbliss has many years of ACS service on the national and local level and will continue to be a valuable player in local section business. Dr. Palmer also has many years of national and local section ACS experience and we look forward to his continued support and insight into local section activities. **Dr. Suzanne Purrington** (purringt@chemdept.chem.ncsu.edu) from NC State will be returning as an alternate councilor. Dr. Purrington has been involved with the local section since 1974 and will continue to be an integral part of the local section operations. We have a new alternate councilor, **Dr. Edward T. Samulski** (et@unc.edu) from UNC-Chapel Hill. Dr. Samulski recently concluded a five-year term as chair of the UNC-CH chemistry department. We look forward to Dr. Samulski's input into local section business.

As a reminder, all contact information for current NC-ACS officers can be found at the link for "Officers: Local Section" at: <http://membership.acs.org/N/NCarolina/>

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All four issues of the TarHelium will accept advertising. The cost is \$25 per column-inch based on a 3.5 inch width; two-inch minimum. There is a 10% discount for advertising in three or more issues in a publication year which runs bimonthly from September through April.



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

Contact the editor, Brad Sturgeon at [sturgeon@ncssm.edu](mailto:sturgeon@ncssm.edu)

# IT'S A BRAND NEW YEAR

## Remarks from the Chair

*Fellow ACS Members:*

*I have been asked by our outgoing Chair, Brad Sturgeon, to provide a few remarks about my goals for our local section for the coming year. First I'd like to thank Brad for his excellent job as Chair during the past year, and thank everyone else for allowing me to serve as your Chair in 2001.*

*I have been actively (but indirectly) involved with the local section through the Polymer Discussion Group over the past 18 years. I must admit that, during this time, I had very little knowledge of the activities and inner workings of the NCACS Local Section. After serving for one year as Program Chair/Chair-Elect, I now have a better perspective on how the Local Section operates, although there is still much to learn. I didn't realize just how involved and committed our members were, above and beyond the activities of the individual discussion groups.*

*Let me cite some of the more significant activities and events of the past year, with advance apologies to anyone/anything I may*

*inadvertently overlook. We now have a nationally recognized and well-funded effort in Project SEED, thanks to Ken Cutler. Camille Solbrig has orchestrated another successful National Chemistry Week. Our presence at this year's State Fair was the largest ever, with many of you volunteering your time to bring chemistry a little closer to the Fair attendees. We had another successful and well-attended Local Section Conference last spring. The TarHelium has been expanded and given a facelift, thanks to the efforts of its new editor (Brad Sturgeon) and the hiring of an assistant editor. Several of our officers attended the high-energy Local Session Leadership conference held in Raleigh this year. Our Councilors were present at both national ACS meetings and are actively involved at the national level. Our Discussion Groups continue to flourish, each presenting its own program of speakers, workshops, and symposia. New discussion groups are being formed to serve the needs of high school chemistry/science teachers and chemical toxicologists. Efforts are also underway to form a Retired Chemists Committee.*

*So what can be done in 2001 to top all this? While I don't have any earth-shaking ideas for 2001, I do have a few specific goals in mind. First and foremost, I want to make sure that we continue to do all the things we are already doing well, some of which are listed above. In addition, our SEED program has grown to the point where it seems appropriate to form a committee to help with the administration of the program, which will allow Ken Cutler to concentrate on what he does best- recruiting and working directly with the students. Our Discussion Groups are the technical heart of our local section. We must continue to encourage and sustain them, as well as facilitate the formation of the two new Groups mentioned above. In addition to our spring local section conference, it seems appropriate to have a fall local section meeting of some kind. To encourage attendance, we could make this more of a social event- a beer/wine tasting, group attendance at a local sports event, etc. Please contact me with any other ideas you may have for a fall meeting. Finally, some of the folks from the national ACS are coming to our section this month to plan for a Capitol Day event, in which ACS members will meet with state legislators to discuss K-12 educational issues in chemistry. We may have a real opportunity here to influence chemistry education on a statewide level.*

*There will be many opportunities for our local section to become involved with chemistry-related issues in 2001. I will do my best to see that this happens, and I invite all of you to become involved in some way as well. Please feel free to contact me with any comments or suggestions you may have. I am looking forward to a productive year with the NCACS Local Section.*

Best regards,

*Maury Balik*  
2001 Chair

## Call for Papers - 115<sup>th</sup> ACS Local Section Meeting

Saturday, April 21, 2001-  
North Carolina State  
University - Dabney Hall

**DEADLINE: Friday,  
February 16, 2001**

Paper submission for this year's local section meeting will be accepted using the on-line registration form found at the following URL:

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

This is the preferred method of submission. If on-line registration is not possible, please fill out the form below



and mail, fax, or email the information to the address/fax number below.

The oral and poster presentations will start as early as 8:00 am and conclude prior to the General Session scheduled to start at about noon. Lunch will be provided for all registered participants.

Oral presentations will be 15 minutes long plus 5 minutes for questions. Overhead and 35mm projectors will be available.

Please register on-line or submit this form to:

Susan CJ Sumner, Ph.D.  
CIIT Centers for Health Research  
Six Davis Drive  
Research Triangle Park  
North Carolina, 27709  
Phone: 919-558-1343  
FAX: 919-558-13  
E-mail: [sumner@ciit.org](mailto:sumner@ciit.org)

Title: \_\_\_\_\_

Presenter: \_\_\_\_\_

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

Co-authors: \_\_\_\_\_

Co-author affiliations, if different: \_\_\_\_\_

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

Email: \_\_\_\_\_

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

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

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

Research Director: \_\_\_\_\_

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

Phone number: \_\_\_\_\_

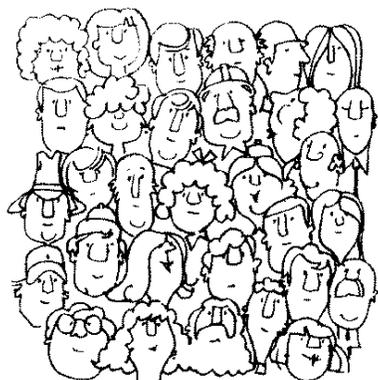
Email: \_\_\_\_\_

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

<input type="checkbox"/> Analytical	<input type="checkbox"/> Organic	<input type="checkbox"/> Inorganic
<input type="checkbox"/> Physical	<input type="checkbox"/> Medicinal	<input type="checkbox"/> Environmental
<input type="checkbox"/> Biochemistry	<input type="checkbox"/> Chem. Ed.	<input type="checkbox"/> Polymer
<input type="checkbox"/> Other: specify _____		

Type of presentation:

Oral\*     Poster     Either



## Welcome to Our Newest ACS Members

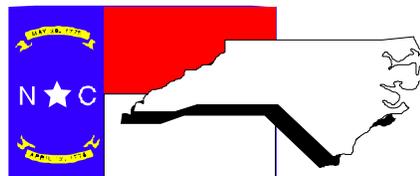
**P**lease welcome our newest ACS members !!

Misti A. Anderson	Rahcyne Hill
Dr. Robin Lynn Arnette	Mervat H. Issa
Stuart N. Bates	Siddugari Kalachan
Volker Boehm	Dr. Iain D. Kelly
Michael A. Carnahan	Dr. Jim E. Kennamer
Hun Feng	Christopher H. Kennedy
Dr. Alexander Golbraikh	Jozef Klucik
Lina A. Gugliotti	Mukunda Krishnaswamy
Dr. Kenneth D. James	Robert D. Lousenberg
Dr. Gary M. Klaich	Christopher L. Mcadams
Li Ma	Mark M. Mcphee
Dr. J. K. Narayanan Nair	Elizabeth C. Monkman
Bauke K. Nauta	Shannon Allen Morrison
Victoria R. Otto	James Onis Mullis
Kamlesh D. Patel	Rick J. Offerman
Jennifer D. Polley	Dr. Jozef Orpiszewski
Yuanyuan Qiao	Gwilym E. Owen, Jr.
Min Shen	Joanne Pelaschier
Dennis S. Smith	Dr. Ralph E. Peterson
Michelle Viglietta	Robert Plourde
Susan Whitaker	David Angelo Pollard
Dr. Yun De Xiao	Peter Alan Reinhardt
Joshua C. Yohannan	Dr. Martin E. Rogers
Ran Zheng	Dr. Edward G. Samsa
Pinky G. Agbuya	Peimin Shao
Brian E. Applegate	Christopher Shelton
Rodney C. Austin	Chunmei Shi
Amanda Ann Baynham	Jason W. Skudlarek
Krzysztof Bednarski	John Warren Sloan
Dr. Christopher W. Beecher	Greg G. Springsteen
David L. Bourdet	Prathapan Sreedharan
Danny J. Cecile	Dr. Brad Thatcher
Stephen Carter Dacus	Nicolai Aage Tvermoes
Dr. Raymond B. Davison	Xiaojing Wang
Jennifer D. Fell	Dr. Andre White
Matthew W. Foster	Louis M Wojcinski
Dr. Hongwu Gao	Dr. Philip Yang
Elaine Grief	
Robert Griffin	
Christina Marie Hall	



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

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

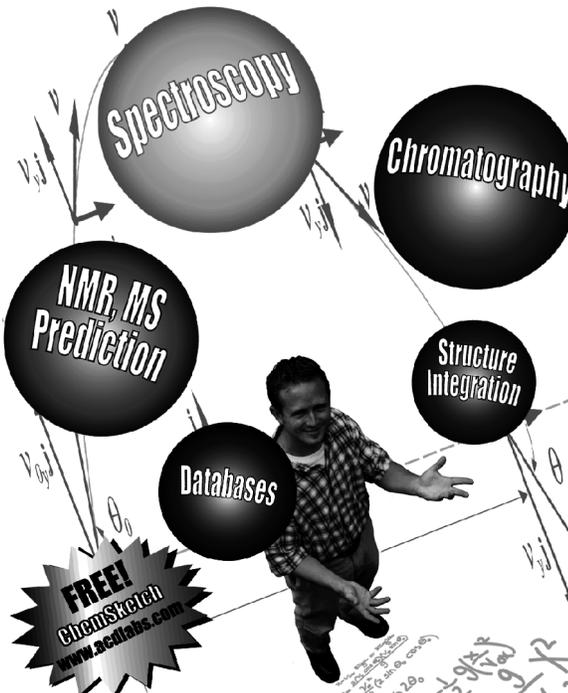


## NC State Capital Day

On Friday evening, January 5, 2000, representatives from the North Carolina and Central North Carolina local sections met at the Research Triangle Institute for the ACS State Government Relations Planning Group meeting. The agenda was to investigate the possibility of a statewide coalition of local sections to effect and contribute to North Carolina policy on K-12 science and math education. The representatives agreed that ACS should work with the state legislature in that area of expertise.

As a first step toward establishing a state government relations program for North Carolina local sections, a North Carolina State Capitol Day will take place on Wednesday, May 9, 2001. ACS members from every North Carolina section are invited and encouraged to convene that day at the State Capitol in Raleigh to meet with their state legislators and discuss education policy. The purpose of these meetings is to establish or reestablish relationships with our own local representatives and introduce the resources and expertise of the North Carolina local sections and members on K-12 science and math education. The ability of ACS, its local sections, and members to ensure that state laws and regulations are based on sound science and supportive of chemists and chemistry is central to the need and opportunity of a state-wide government relations program. Please look for further announcements and plan to join us in Raleigh on May 9. If you have specific questions please contact our section Chair, Maury Balik ([balik@ncsu.edu](mailto:balik@ncsu.edu)).

# Advertisements



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## Retired ACS Members - Interested in a Retired Chemists' Club?

*ACS Retirees in North Carolina – 3000 Years of Experience*

North Carolina is home to over 80 retired ACS members. Two-thirds of us reside close by the Research Triangle, with 23 in Raleigh, 13 in Chapel Hill, 12 in Cary, and 9 in Durham leading the list. More of us live in smaller communities near the Triangle, like Pittsboro, Apex, Hillsborough, Morrisville and Clinton. But Pinehurst also numbers a few ACS retirees among its golfers, so we don't all live in the Triangle.

Some of us, like me, are newcomers who moved to the area after retiring. Others of us discovered much earlier in life how great it is here. Whether a life-long or a year-long resident, a Tar Heel Retired Chemists' Club could be a means of renewing old friendships and creating new ones. Interested? If so, send me an email:

[theuer@worldnet.att.net](mailto:theuer@worldnet.att.net)

Be sure to include your ideas of the things you would want a Retired Chemists' Club to do for you or to cover if we had a monthly or quarterly meeting (over lunch? - near RDU?). Here are some first thoughts to help start the brainstorming process:

- 'consulting' opportunities in the local community
- part-time and temporary work opportunities
- self-employment "Do's" and "Don't's" (legal, professional, etc.)
- lectures on new scientific developments
- community service volunteer opportunities
- middle school and high school science tutoring, career days, science fair judging and coaching/mentoring
- learn what's going on at local universities and in the UNC system
- establish a program for ACS retirees to give a lecture a year at a local university or community college

Richard Theuer  
[theuer@worldnet.att.net](mailto:theuer@worldnet.att.net)  
 (919) 844-5843

## ACS Observes its 125<sup>th</sup> Anniversary in 2001

The founders of the American Chemical Society surely would have considered eccentric anyone who predicted at the organizing meeting, on April 6, 1876, that in the next 100 years the society would have more than 110,000 members. On the eve of its centennial in 1976, ACS had 110,820 members, 175 local sections, and 28 divisions. Dues were \$29. Expenditures were estimated at \$35.2 million.



And I'm sure that in April of 1976, as ACS launched the celebration of a century, there were many that wondered what the next 25 years would bring. We need only search our personal and professional experiences of the last twenty-five (short) years to realize that, once again, we have come a long way. There will be much to celebrate in 2001!

## Letter from Past Chair...

I would like to take this opportunity to thank all of the year 2000 NC-ACS officers, committee chairs, and discussion group leaders for their commitment to the North Carolina Section. In addition, our section is privileged to have some senior scientists who have dedicated their time, in particular, Maurice Bursey and Ernest Eliel. As our new chair, Maury Balik correctly points out in his "Remarks from the Chair" this past year has been a successful one. As you may recall one of my goals as the 2000 Chair was to increase communication within the membership; I do not feel as though this goal was completely reached. But never fear my commitment to communication is so great that I have now assumed the roll of the TarHelium Editor. With the expertise of our new assistant editor, Ms. Judi Price, I am optimistic that we can use the TarHelium to significantly increase membership communication. You can do your part by sharing with me your thoughts and opinions regarding Section operations, activities, or whatever. Please don't hesitate to use email ([sturgeon@ncssm.edu](mailto:sturgeon@ncssm.edu)).

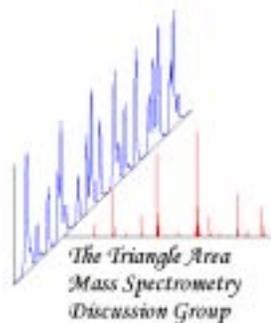


## NC-ACS Discussion Groups



### NC-ACS Discussion Groups

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



#### Triangle Area Mass Spectrometry Discussion Group (TAMS)

The Triangle Area Mass Spectrometry discussion group (TAMS) was created to provide an opportunity for scientists involved in mass spectrometry to get together and share ideas

and experiences. The group typically holds six meetings per year, which include a social time, refreshments, general announcements, and a seminar by an invited speaker. Previous invited speakers have been from the areas of pharmaceutical, biotechnology, environmental, theoretical, and forensic sciences. The group also holds an annual poster and vendor night in the fall, where members are encouraged to present exciting aspects of their work and our sponsors are given the opportunity to show their latest products.

All correspondence is through the TAMS e-mail distribution list and the TAMS website at <http://membership.acs.org/N/NCarolina/tamsdg/tams1.htm>.

Our website lists up-coming events, highlights from last year's poster and vendor night, and a job posting section. Membership in the group is free and anyone can join by sending an e-mail to Daniel Morgan at

[dm19700@glaxowellcome.com](mailto:dm19700@glaxowellcome.com)



### Triangle Chromatography Discussion Group (TCDG)

The purpose of the TCDG is to maintain and promote an interest in and to provide an opportunity for discussion and exchange of information with respect to all fields of chromatography. The membership is open to anyone interested in the field of chromatography. The TCDG sponsors a number of speakers throughout the year and an annual Triangle Symposium and Instrument Exhibit - the 18<sup>th</sup> Annual Symposium will be held on May 17, 2001 at the NCSU McKimmon Center. Our most recent presentation was Ted Provder who presented a seminar entitled "Application of size-exclusion chromatography to product R & D and problem solving" on January 11, 2001.

### Call for Posters

#### 18<sup>th</sup> Annual TCDG Symposium & Instrument Exhibit

The Triangle Chromatography Discussion Group (TCDG) will hold its 18<sup>th</sup> Annual Exhibit, Symposium and Poster Session at the McKimmon Center in Raleigh on Thursday, May 17, 2001. As part of this meeting the Group will sponsor a poster session. Anyone is invited to participate in the poster session, but for student posters only, prizes will be given. The first prize is \$400.00 and second prize is \$200.00. Deadline for receipt of abstract is March 31, 2001. The abstract should be not longer than 150 words. Send the abstract along with title, authors, affiliation, and complete address and phone number to:

Dr. Sherry Movassaghi  
 Aventis Crop Science  
 P.O. Box 12014  
 Research Triangle Park, NC 27709  
 e-mail: [sherry.movassaghi@aventis.com](mailto:sherry.movassaghi@aventis.com)

For more information regarding this discussion group please visit the NC-ACS website or directly at

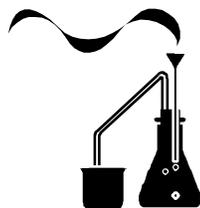
<http://rtpnet.org/~tcdg/index.html>

### Younger Chemist Committee (YCC)

The YCC was developed to encourage greater participation in the ACS in the Local Section by its younger members. The YCC's primary goal is to make the ACS more accessible and relevant to the younger chemist. The programs are designed to provide informative lectures and discussions relevant to YCC members. Meetings are held at least once a quarter. Our group is involved with National Chemistry Week and the NC State Fair as well as other projects that promote Chemistry in the Section. The NC-ACS YCC has recently been acknowledged by National ACS as the best new YCC in 2000. In addition, our YCC has been awarded the "Best Kick-off Event" in 2000. More information about YCC can be found on the NC-ACS website or by emailing Darrell Coleman at [coleman\\_darrell@lilly.com](mailto:coleman_darrell@lilly.com).

Additional information about the YCC can be found at:

<http://membership.acs.org/scripts/ycc/home/default.asp>



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

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

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

*subscribe ncchemed< your name>*

The subject line is ignored. The list is moderated and hidden to minimize the risk of receiving inappropriate messages and "span" because of this list. If you are interested in becoming involved in the discussion group, please contact Dr. Myra Halpin at [halpin@ncssm.edu](mailto:halpin@ncssm.edu)

### Triangle Magnetic Resonance Discussion Group (TMRDG)

The goal of the Triangle NMR Discussion group is to promote interactions and foster a stimulating and collaborative environment for the local NMR community.

The Triangle NMR Discussion Group is an American Chemical Society Group of scientists interested in all areas of magnetic resonance, working the North Carolina area. Their web page will keep members and other interested scientists informed of upcoming TriMR events as well as local seminars.

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

### Polymer Discussion Group (PDG)

Objectives of the Polymer Discussion Group (PDG)

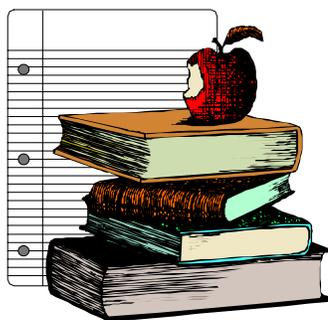
- ★ *To promote polymer chemistry and physics in all aspects.*
- ★ *To foster the educational and professional growth of members.*
- ★ *To increase contacts between people engaged in polymer work in order to exchange knowledge and stimulate ideas.*
- ★ *To sponsor lectures, conferences, and other means to promote these objects and the general cause of polymer chemistry and physics.*

All scientists, engineers, and students working in polymer-related fields are welcome to participate in the Polymer Discussion Group (PDG). Please attend any or all of the meetings on the schedule below to meet other local polymer scientists in industry and academia. Monthly meetings include dinner, a seminar by an invited speaker, and discussion. Meetings are held at the University Club of NC State University on the second Thursday of each month. Social hour begins at 5:30 pm, with dinner at 6:30, and the seminar at 7:30. For more information, to make dinner reservations, or to be added to the email list, contact Marlene Hontz (469-2500 ext. 2127, email: [marlene.hontz@lord.com](mailto:marlene.hontz@lord.com)).

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

### 2001 Meeting Schedule

- |        |  |
|--------|--|
| Feb 8  | Prof. Mitchell A. Winnik (Dept. of Chemistry, University of Toronto, Toronto, Ontario) " <i>Interdiffusion vs. Crosslinking in Thermoset Latex Films</i> "                     |
| Mar 8  | Dr. Jeffrey W. Gilman (National Institute of Standards and Technology (NIST) Fire Science Division, Gaithersburg, Maryland) "Title to be arranged"                             |
| Apr 12 | Prof. Michael F. Cunningham (Dept. of Chemical Engineering Queen's University, Kingston, Ontario) " <i>Nitroxide Mediated Living Radical Polymerization in Miniemulsions</i> " |



## ACS Scholars Program

Applications for the ACS Scholars Program for the 2001-2002 academic year are available by mail or can be downloaded from the ACS web site at

[www.acs.org/minorityaffairs/scholars.html](http://www.acs.org/minorityaffairs/scholars.html)

Approximately 150 new scholarships valued at up to \$3000 per academic year will be awarded to graduating high school seniors, college freshmen, sophomores and juniors majoring in the chemical sciences. Two-year Chemical Technology students are also encouraged to apply. The competition is open to students who meet the following qualifications:

- \* *African American, Latino/Hispanic, American Indian including Alaskan and Hawaiian Natives*
- \* *Citizens or permanent residents of the United States*
- \* *Full-time attendance at an accredited college or university*
- \* *Students with demonstrated high achievement in chemistry or science*
- \* *Evidence of financial need for scholarship aid according to the Free Application for Federal Student Aid (FAFSA) which can be obtained from the U.S. Department of Education*
- \* *High school senior or college freshman, sophomore, or junior intending to or already majoring in chemistry, biochemistry, chemical engineering or a chemically related science and planning a career in the chemical sciences or chemical technology*

To receive information by mail, contact Robert Hughes or Robin Wainwright at 1-800-227-5558, ext. 6250, or send an [scholars@acs.org](mailto:scholars@acs.org)

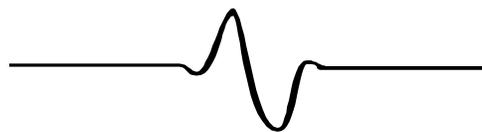
*Some points to ponder....*

*If life seems like it's all uphill ...you must be reaching your peak.*

Tom Wilson, Cartoonist

## NC-ACS Listserv in Review

The NC Section of the ACS now supports 3 different listserv lists. The list names are:



**ncacs** - *a list for the general membership*

**ncacs\_ycc** - *a list for the Younger Chemists Committee*

**ncchemed** - *a list for chemical educators or anyone interested in chemical education*

Information on subscribing can be found on the NC ACS web page. Subscribing requires addressing email to: [listserv@listserv.ncsu.edu](mailto:listserv@listserv.ncsu.edu) and include a 1-line message saying: subscribe listname <your name>; where listname = one of the names above and <your name> is your name, i.e. not your e-mail address.

All lists are hidden and moderated to reduce the chance of receiving inappropriate messages or spam. Hidden means that search engines will not find the list name. Moderated means that someone must approve all messages that are posted.

These lists will be used for posting meeting announcements and job announcements as well as other announcements that might be of interest to the target list. Job announcements are done as a public service of the NC Section of the ACS and NCSU, so there is no charge. These announcement must come from the membership, however, so please keep this service in mind if you have a job opening to publicize. Feedback from employers who have used the service indicates that the list has worked well for networking job applicants.

We hope that these lists will be of service to the membership.

*Submitted by:*

Bill Switzer

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## JOB VACANCIES

### Employment Aids from the Local Section

As many of you are aware, the NC Section has a web page: <http://membership.acs.org/N/NCarolina/>. This page and the links therein are intended to be a resource for chemists in the Section. There are several links of interest particularly to those seeking employment. One link has a list of companies in the Section who hire ACS members; and another links to classified ads in the local paper and to a job search service for the area as well as to several other less targeted sources. Also there are links directly to company job opening web pages where we have been able to find them and links to some of the services offered on ACS web pages.

An additional resource for the most up-to-date job postings is the NCACS listserver. This listserver is operated as a public service of the NC Section and NC State University. There is no charge to anyone. It is operated as a moderated list, which means that only the list owner can approve posted material. This prevents the list from becoming overwhelmed with inappropriate messages. Only valid job openings and meeting announcements are approved. To subscribe, address mail to: [listserv@listserv.ncsu.edu](mailto:listserv@listserv.ncsu.edu). Include a 1-line message saying: *subscribe ncacs <your name>*

The subject line is ignored and your return address is taken as the subscription address. Anyone having a valid job opening can contact Bill Switzer at: [bill\\_switzer@ncsu.edu](mailto:bill_switzer@ncsu.edu). To unsubscribe, reply to any posted message requesting that your name be removed.

Also contact Bill at the same address if you have suggestions for other links that might serve as useful resources on the web page or if you would be interested in taking responsibility for maintaining one or more pages.

### 2000 ChemCensus: Jobs More Plentiful and Salaries Up

Jobs are more plentiful and salaries are higher, according to the newly released ChemCensus of the American Chemical Society's members. The unemployment rate fell from 2.3 to 2.0. However, the gains from lower unemployment were offset by an increase in the proportion of members in part-time positions. The proportion of ACS members in postdoc positions remained relatively low at 2.0 percent.

A report on ChemCensus, released at last August's national meeting in Washington, highlights the continuing increase in the proportion of members not working and not seeking work, plus the increase in the proportion of members under 70 years who stated they were fully retired. The median age for the chemists also rose, from 44 to 45 years.

The fall in unemployment reflects a decline in unemployment for the largest employer of chemists--industry, from 2.6 in 1999 to 2.3 on March 1<sup>st</sup> this year. The declining industrial unemployment rate also reflects age-specific declines in unemployment for chemists: under age 45 from 1.8 in 1999 to 1.5 percent in 2000; ages 45 to 59 from 3.2 to 2.7 percent; and ages 60 though 69 from 6.4 percent to 2.2 percent, even though the latter grouping represents a smaller proportion of the age groups than the others.

Salaries for chemists continued to grow. The median salary for all chemists rose from \$68,000 to \$70,000.

### Employment Status of Chemists

	1996	1997	1998	1999	2000
Full Time	89.4	90.5	89.8	89.4	88.7
Part Time	2.7	2.1	2.4	2.6	2.9
Post Doc	2.7	2.3	2.2	2.0	2.0
Not Employed					
Seeking	2.9	1.9	2.3	2.2	1.9
Not Seeking	2.3	0.8	0.9	1.3	1.7
Fully Retired*		2.3*	2.4*	2.5	2.8
<b>Overall Unemployment</b>	<b>3.0</b>	<b>2.0**</b>	<b>2.3**</b>	<b>2.3**</b>	<b>2.0**</b>

\* Fully retired is new category (1997)

\*\* Not seeking and fully retired (not in workforce) both dropped from calculation

Source: ACS Comprehensive Salary and Employment Status Surveys

**Characterization of Proteins by Mass Spectrometry - NIEHS**

ID# HNV00-8

Position available in September 2000 to study the application of mass spectrometry to protein structure analysis, including tertiary structure, protein complexes and post-translational modifications. Candidates should

have a PhD in analytical chemistry (mass spectrometry) or biochemistry (protein chemistry) or a related discipline, and less than five years of previous postdoctoral experience.

TO APPLY: Submit a cover letter, curriculum vitae, bibliography and the names of three references to:

Dr. Kenneth Tomer

National Institute of Environmental Health Sciences

P.O. Box 12233 (F0-03)

Research Triangle Park, NC 27709

NIEHS/NIH is an Equal Opportunity Employer.

**Scynexis - Multiple Positions Available**

SCYNEXIS Chemistry & Automation, Inc. is a dynamic new company providing a comprehensive range of chemical services for the life sciences industry, from hit discovery and lead optimization using our proprietary technology, through synthesis of early phase testing samples under cGMP's. We have immediate openings in our research and development group for highly motivated candidates.

**MEDICINAL CHEMISTS** - Currently seeking Ph.D.-level organic and medicinal chemists to join our Discovery Chemistry department. You will have the opportunity to design and synthesize novel molecules and molecule libraries for optimization of bioactivity and for hit discovery, using our proprietary technologies and working as part of an interdisciplinary team. Demonstrated expertise in organic synthesis and/or medicinal chemistry is required, as are excellent communication and interpersonal skills. Experience in automated combinatorial or parallel synthesis, aptitude with instrumentation, or advanced computer experience is desirable. Candidates must have a Ph.D. in Organic Chemistry.

We are additionally seeking M.S. and B.S.-level organic chemists to join our Discovery Chemistry team to conduct original research and be responsible for the preparation of organic target molecules and libraries for use in lead optimization and hit discovery programs. Expertise in multi-step organic synthesis, chromatographic purification and analysis, and spectral interpretation is required, as are excellent communication and interpersonal skills. Experience in automated combinatorial or parallel synthesis, aptitude with instrumentation, or advanced computer experience are also desirable. Candidates must have a B.S. or M.S. degree in Chemistry.

For the above positions, please reply Attn: Discovery Chemistry to the address below or to [Chemistry@Scynexis.com](mailto:Chemistry@Scynexis.com). Interested individuals are invited to apply by forwarding a resume and references to: SCYNEXIS Chemistry & Automation, Inc., P.O. Box 12878, RTP, North Carolina 27709-2878. Equal opportunity employer.

**Principal Associate Research Scientist - Bayer**

Needed immediately with Bayer Corporation's Pharmaceutical Division located in Clayton, North Carolina. This position will be located at the Centennial Campus (located at North Carolina State University Campus) Research Center. Responsible for the extended characterization of proteins in support of projects within Research Bioanalytical for Biological Products. The main responsibilities are the development, implementation and validation of assays to characterize the post-translation modifications of glycoproteins.

Ph. D. or equivalent plus post-doctoral experience with an emphasis on protein analysis (protein characterization, biochemistry, analytical chemistry etc.), plus a minimum of two years of industrial experience (or equivalent academic experience) in a pharmaceutical setting. Experience in the characterization of protein post-translational modifications, particularly in the analysis of glycoprotein carbohydrates and/or in the biochemistry of protein glycosylation is highly desirable. The incumbent must be capable of setting priorities and meeting milestones. Teamwork and excellent communication skills are required.

Please forward your resume along with referencing code number PACR0473 to: Bayer Corporation, Pharmaceutical Division, P.O. Box 3238, Scranton, PA 18505-0238. Fax: 1-888-805-7474. E-mail: [bayerpharma@alexus.com](mailto:bayerpharma@alexus.com). In addition please E-mail your resume to [michael.madigan.b@bayer.com](mailto:michael.madigan.b@bayer.com) as a Text File or Word Attachment for direct consideration. For more information on Bayer, please visit our website at [www.bayerpharma-na.com](http://www.bayerpharma-na.com). No agencies or phone calls please. Bayer Corporation offers a competitive salary, a comprehensive benefits packet and is a diversified international global workplace. An Equal Opportunity Employer M/F/D/V.

**Experienced Chemists - Cirrus Pharmaceuticals**

Entry-level or experienced chemists are needed for laboratory work in support of drug formulation studies. Requirements are a B.S. or B.A. in chemistry. Cirrus Pharmaceuticals is a growing contract research & development firm. Submit resume to Cirrus Pharmaceuticals, P.O. Box 14748, Research Triangle Park, NC 27709 (Fax: 919-884-2075; e-mail: [contact@CirrusPharm.com](mailto:contact@CirrusPharm.com); web page: [www.CirrusPharm.com](http://www.CirrusPharm.com))

# The TarHelium 31:3

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**Dated Material - Please Deliver Promptly**

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## The TarHelium

*The TarHelium* is a publication of the North Carolina Section of the American Chemical Society. The views expressed herein are not necessarily those of the Section. Public lectures and seminars as well as announcements of interest to the ACS membership will be listed as deemed appropriate by the editor and as space permits. Short commentaries or contributed articles will also be considered. Also, we are happy to publicize, free of charge, any job openings for chemists. We also accept paid advertisements for more extensive recruiting announcements. The Deadline for each publication is usually the first of the month prior to publication.

## NC Section Electronic Communications

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

The listserv 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: listserv@listserv.ncsu.edu. The subject field is ignored, but in the message field type: subscribe ncacs first\_name last\_name. Your name is required; spaces are allowed. Your return address becomes your subscription address. These instructions as well as those for removing your name are linked to the web page.

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

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