



The TarHelium

Volume 25, Number 6

February 1995

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Polymer Discussion Group

Thursday, February 9, 1995

Andrew Woo

Reichhold Chemicals Inc.

"Rheological Considerations Of Abrasion-Resistant Polyurethane Resins"

NCSU Faculty Club

4200 Hillsborough St., Raleigh

- 5:30 p. m. Social Hour
6:30 p. m. Dinner * (members-guests:
\$15; students \$8)
7:30 p. m. Lecture

*Reservations by 5:00 pm, February 6
with Richard Venditti in Raleigh at: 515-
6185 or richard_venditti@ncsu.edu

February TCDG Meeting

Dr. Marc V. Gorenstein, Senior Scientist
Waters Corporation

"The Spectroscopic Detection of Coelution: Developing and Applying a Peak Purity Method"

Wednesday, February 8, 1995

Camille Dreyfus Laboratory Auditorium

Research Triangle Institute

3040 Cornwallis Rd

Research Triangle Park NC

11:30-noon (Luncheon - by reservation*)
noon - Presentation Begins

*If you wish, a box lunch (choice of
sandwich, \$6) can be ordered or you may
bring your own (optional). For informa-
tion or reservations, call Judi Price (919-
541-8852) or John Hines (919-541-6647)
by 5:00 pm Monday, February 6. A wait-
ing list will be kept in case of cancellation.
Please cancel reservations by 5:00 pm on
Monday, February 6. Abstract p 2

Call for Papers

109th NC Section Conference
See Page 5

The TarHelium

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

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W. L. Switzer (NCSU), SERM-98, <i>Ex Officio</i>	515-2945	bill_switzer@ncsu.edu

Voicemail Information Line: (919) 541-7183 in the RTP

6010-General ACS
6052-Magnetic Resonance Spectroscopy Discussion Group
6054-Triangle Chromatography Discussion Group

6011-Polymer Discussion Group

6053-Mass Spectrometry Discussion Group

National ACS meetings:

April 2-6, 1995, Anaheim
December 17-22, 1995, Honolulu
March 24-29, 1996, New Orleans

August 20-24, 1995, Chicago

International Chemical Congress of Pacific Basin Societies

August 18-23 1996, Boston

Deadline for March Publication: February 10, 1995

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W. L. Switzer, Editor

S. T. Purrington, Assistant Editor

P. A. Flowers, Advertising

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

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

Advertising: All nine issues of the *TarHelium* will accept advertising. The cost is \$25 per column-inch based on a 3.5 inch width; two-inch minimum. There is a 10% discount for advertising in four or more issues in a publication year which runs from September through April plus one issue in the summer. Contact Paul Flowers, Advertising Manager, Department of Physical Science, Pembroke State University, Pembroke NC 28372, Phone: (919) 521-6247 Fax: (919) 521-6649 and Internet: paul@nat.pembroke.edu.

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

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

Manager, Membership & Subscription Services
American Chemical Society
P. O. Box 3337
Columbus, OH 43210
meminfo@acs.org

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

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

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

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

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

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

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

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

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Micron Inc. - p. 6
Quantitative Technology Inc. - p. 3
Symposium on RNA Biology c. - p. 2

Future Polymer Meetings

Mar 9 Menas S. Vratsanos, Air Products & Chemicals Inc., "Impulse Viscoelasticity-An Advanced Polymer Characterization Technique"
Apr 13 Gregory A. York, Shell Development Company, "Structure-Property Relationships In Siloxane Macromer Graft Copolymers"
May 11 Research Triangle Student Symposium (speakers to be determined)

Abstract February TCDG Meeting

Dr. Marc V. Gorenstein, Senior Scientist, Waters Corporation, will speak on "The Spectroscopic Detection of Coelution: Developing and Applying a Peak Purity Method", Wednesday, February 8, 1995. Meeting details are given on the front cover.

ABSTRACT: Photodiode array detectors record an absorbance spectrum at time points during the elution of a chromatographic peak. The presence of even a minor coelutant, one that leaves a chromatographic profile unchanged, can change the shape of every spectrum within the peak. Peak purity algorithms measure a peak's spectral inhomogeneity by analyzing these shape changes. Properly interpreted, peak purity measurements can detect the presence of coelutants that might otherwise be missed.

This talk will focus on how to develop and apply a method that uses a peak purity algorithm to detect coelution within a chromatographic peak.

Future TCDG Events 12th Triangle Symposium & Instrument Exhibit - May 18th, 1995 at the McKimmon Center.

Editorial

by William L. Switzer, bill_switzer@ncsu.edu

I have had problems getting *The TarHelium* written, printed and delivered on time for the last several months. I have made a few changes which I hope will help; other changes are planned if the problem persists. Note that two monthly columns, Area Seminars and Area News, are now by-lines. **Maja Kricker** (NIEHS) will edit the Area Seminars and **Halbert Carmichael** (NCSU) will edit the Area News. They join **Sarah Allen** (NCSSM), editor of the High School Teachers column. Their e-mail addresses have been included. Thanks to all three.

Symposium on RNA Biology c. - p.

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5 Contact: Paul F. Agris
6 Department of Biochemistry-7622
7 NC State University
8 Raleigh NC 27695-7622
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10 (919) 515-6188
11 (919) 515-2047 (fax)

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Quantitative Technology Inc. - p.

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3 Elemental Analysis

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5 PO Box 470
6 Whitehouse NJ 08888

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8 (908) 534-4445

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12 Feb, Mar, Apr, Sep, Oct and Nov

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Call for Papers

12th Annual TCDG Symposium and Instrument Exhibit

The Triangle Chromatography Discussion Group (TCDG) will hold its 12th Annual Exhibit, Symposium and Poster Session at the McKimmon Center in Raleigh on Thursday, May 18. As part of this meeting, the Group will sponsor a poster session. Anyone may participate in the poster session, but for students posters only, prizes will be given. The first prize is \$400 and second prize is \$200. The abstract deadline is Friday, March 31. The abstract should be no longer than one page. Send the abstract along with title, authors, affiliation and complete address and phone number to:

Dr. Joseph R. Hudson
Rhône-Poulenc Ag Company
PO Box 12014
Research Triangle Park NC 27709

Acceptance will be acknowledged no later than April 15, 1995.

Galbraith Laboratories - p.

2
3 Microanalysis Services

4
5 PO Box 51610
6 Knoxville TN 37921-1750

7
8 2323 Sycamore Dr
9 Knoxville TN 37921-1750

10
11 (615) 546-1336

12 (615) 546-7209

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University Grants and Contracts

Air Force Office of Scientific Research: "Chemistry Involving the Preparation, Isolation and Immobilization III-V Compound Semiconductor Nanocrystals and Quantum Dots", **Richard L. Wells**, Duke

Microelectronics Center of North Carolina: "Rapid Parallel Force Evaluation for Molecular Dynamics", **Weitao Yang**, Duke

Office of Naval Research: "The Synthesis and Characterization of Gallium-Arsenic Monomers, Chains, Cycles, and Clusters", **Richard L. Wells**, Duke

Eastern Carolina Student Meeting

East Carolina University, ECU ACS Student Affiliates, ECU Chemistry Alumni Professional Society Alumni Society and the Eastern North Carolina Section of the ACS will hold a Student Meeting in Miniature on November 10, 1995 in conjunction with Chemistry Week. For further information contact Art A. Rodriguez at 919-328-6228 or by e-mail to:

CHRODRIQ@ECUVM.CIS.ECU.EDU

National Engineering Week

Chemical engineers will have a booth at the Cary Town Center, during the mall hours, from February 20 through 23. There will also be a meeting for all engineering disciplines.

Thursday, February 23, 1995

Lyn E. Adams, NC Zoological Park

"Construction of Wildlife Habitats at the NC Zoo"

NCSU Faculty Club

4200 Hillsborough St., Raleigh

6:00 p. m. Social Hour

7:00 p. m. Dinner* (\$25.00; students \$12.50)

8:00 p. m. Lecture

*Reservations: By February 6, 677-2303 Box #1.

Beckman Instruments, Inc. - p.

2
3 Chemical Instrumentation

4
5 Howard Rosenberg, Ph. D.

6 1210 Ashbrooke Dr.

7 West Chester PA 19380

8

9 (215) 429-1375 (PA)

10 (201) 818-8900 (NJ)

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Area Seminars

by Maja Kricker, Kricker%NIEHS.bitnet@cunyvm.cuny.edu

- Feb 3 Sandra Greer, University of Maryland, "Structure and Properties of Living Polymer Solutions", Duke
- Feb 6 John Dorsey, Florida State University, "Studies in Liquid Chromatography", NCSU
- Feb 7 Dr. Emilio Bunel, Central Research, Dupont, "Mechanistic Investigations of Rhodium-Catalyzed Carbonylations of Olefins", UNC
- Feb 8 Dr. Marc V. Gorenstein, Waters Corporation, "The Spectroscopic Detection of Coelution: Developing and Applying a Peak Purity Method", TCDG
- Feb 9 Andrew Woo, Reichhold Chemicals Inc., "Rheological Considerations Of Abrasion-Resistant Polyurethane Resins", PDG
- Feb 9 Max Lagally, Rohm and Haas Lecture, "Crystal Growth from the Atom's Perspective", UNC
- Feb 10 Peter Jurs, Pennsylvania State University, "Prediction of Properties of Organic Compounds from Molecular Structure", Duke
- Feb 10 Max Lagally, Rohm and Haas Lecture, "Simple Steps to Complex Interfaces: Insights into Si and SiGe Surfaces", UNC
- Feb 10 Frank Fang, Glaxo Research Institute, "TBA", UNC
- Feb 13 Frank Fang, Glaxo Research Institute, "Synthesis of the Topoisomerase Inhibitor G147211C and Aromatase Inhibitor GR148109X", NCSU
- Feb 16 Robert Nemanich, North Carolina State University, "Surface Reactions of Hydrogen on Si (100)", UNC
- Feb 16 Paul B. Sigler, Yale University, "Steroid-Nuclear Receptor Recognition of Response Elements: The "2-3-4 Rule" at 2.0 Å Resolution", Glaxo/NCSU-BC
- Feb 17 Frank Fang, Glaxo Research Institute, "TBA", UNC
- Feb 17 Stephen Zimmerman, University of Illinois-Champaign Urbana, "Hydrogen Bonding and Pi-Stacking in Molecular Recognition and Self-Assembly", Duke
- Feb 20 Bryan Eichorn, University of Maryland, "Magnetic and Transport Properties in Early Transition Metal Oxide and Sulfide Perovskites", NCSU
- Feb 23 Y. Kim, Higher Dimensions Research, Inc., "Physics of 'Soft Matter' and Its Application to Industrial Polymer Problems", UNC
- Feb 24 Axel Becke, Queen's College, Ontario, "Kohn-Sham Density-Functional Theory: The Perfect" Molecular Orbital Formalism", Duke
- Feb 27 Joseph Kolis, Clemson University, "Inorganic Synthesis in Supercritical Fluids", NCSU

PDG-Polymer Discussion Group. Call Richard Venditti at NCSU: 515-6185 or richard_venditti@ncsu.edu. Voice Mail 541-7183, box 6011

TCDG-Triangle Chromatography Discussion Group. Call John Hines 541-6647 (RTD). Voice Mail 541-7183, box 6054
 Duke (Chemistry) Call Bonnie Turner at 660-1506.
 NCSU (Chemistry) Call Joyce Weatherspoon at 515-2548.
 NCSU-BC (Biochemistry) Call Pat Sullivan 515-2581.
 UNC (Chemistry) Call Becky Smith at 962-2172.

High School Teachers

by Dr. Sarah Allen, allen@odie.ncssm.edu

It's time to get the orders for the Chemistry Olympiad Exams in. Those who have ordered exams in years past will receive a separate mailing informing them that it has to be done almost a

month earlier than before. For those of you who would like to have students participate for the first time, you need to send the names of students who will be taking the exam so that enough copies will be ordered for our section. The order deadline is February 8 this year. The same procedure used in recent years by Dr. Knecht will be followed. The exam booklets and blank answer sheets will be sent to you by March 6. You will give the exam to your students and return them to Dr. Myra Halpin, NCO-ICO Coordinator, by March 13. Based on the exam grades, she will identify and notify eleven nominees (no more than 2 from any one school) of the NC Section of ACS to take the National Exam. Both students and teachers receive certificates acknowledging participation as well as information about their performance.

If one of your students is identified as a nominee to take the National Exam, Dr. Halpin will contact you and the student to make arrangements for administration of that exam sometime between April 27-30. The results will be announced by the ACS on May 12 and the top 20 students in the nation will be invited to a two-week study camp (June 11-25) at the US Air Force Academy in Colorado to prepare for the international competition. The international competition is in Beijing, China July 12-21.

Best Wishes to you and your students for a stimulation experience in preparing for this competition. Previous exams are available through the coordinator, Dr. Halpin. Write or call her if you need information or if she can be of help in any way. Her address is: Dr. Myra Halpin, NCO-ICO Coordinator, NCSSM, 1219 Broad Street, Durham, NC 27715; 919-286-3366 ext 419; Halpin@odie.ncssm.edu.

I am sure you are hearing about activity on the Information Highway and hope you are actively trying to look at your options. Has your school gotten on the North Carolina Information Highway? If so, you have at your school the facilities required to participate in a Chemistry Teachers Peer Forum. You can do all this without leaving the comfort of your school and avoid the hassle of travel. At the North Carolina School of Science and Mathematics, Chuck Roser and Myra Halpin will facilitate a 10 session forum during Spring Semester, 1995. Topics to be discussed are: Gases, Equilibrium, Acid/Base Chemistry, Buffers, Thermodynamics, Chemical Bonding, Physical Properties, Rates of Reactions, Electrochemistry, and a viewer's choice of other topics. The goal will be to provide a mechanism for teachers from schools across the state to exchange ideas, activities, and teaching techniques. CEU credit will be awarded to participants in 10 sessions. The broadcast will be sent to 4 sites at a time. After registration is completed, times for sessions will be established. Times will likely be after school from 3-4 or 4-5 pm. Your school will need two-way audio/video to participate in this forum. If you need more information or would like to register, contact either Chuck or Myra at 919-286-3366 or email Halpin@odie.ncssm.edu.

The Science House will offer Countertop Chemistry, a workshop for science teachers, grades 4-8, in the Spring. The workshop is ten hours and carries Teacher Recertification credit and a stipend. The time and dates are 4:30-7:00 PM, April 3, 10, 17, and 24. The workshop is made possible through the support of the Burroughs Wellcome Company. For registration forms teachers may call The Science House at (919) 515-6118.

In July of 1995 The Science House will offer a week-long course on using computers in the Chemistry laboratory. The course will show how teachers can use Macintosh computers and micro-computer-based laboratory equipment to increase student learn-

ing. The workshop is made possible with support from Burroughs Wellcome and the National Science Foundation.

For more information teachers may call The Science House at (919) 515-6118.

Dr. David G. Haase The Science House-8211
 Professor of Physics North Carolina State University
 Director, The Science House Raleigh, NC 27695-8211
 Phone (919) - 515-6118 FAX (919) - 515-7545
 e-mail: "David_Haase@ncsu.edu"
 http://www2.ncsu.edu/ncsu/pams/science_house/

Please remember to get information High School Chemistry Teachers need to know about to me at 919-286-3366 ext 225; NCSSM, 1219 Broad Street, Durham, NC 27715; or Allen@odie.ncssm.edu.

NC Small Business Computing

In September 1994 the National Science Foundation announced the funding of the Stimulating and Enhancing Entrepreneurial Development (SEED) program. SEED utilizes the high-performance computing expertise of NCSC and the national MetaCenter for computational science and engineering to stimulate the development of small technology-oriented businesses in the pharmaceutical, chemical, plastics, engineering, and health technologies industries.

In this three-year program, NCSC will transfer technology to small businesses and provide advanced computing resources that are normally not accessible to them for proof-of-concept projects at little or no charge. SEED will target North Carolina industries in the first year and later expand to include businesses in other Southeastern states. NCSC will work through established small business development organizations and incubator facilities, including the Southern Technology Council, to efficiently reach groups of technology-oriented small businesses in the region.

NCSC is currently soliciting a new round of SEED program applications, due by March 31, 1995. For more information or if you would like to receive an application, contact NCSC Business Development at industry@mcnc.org or 919/248-1133.

1	Huffman Laboratories, Inc. - p.
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3	Elemental Analysis
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5	4630 Indiana Street
6	Golden CO 80403
7	(303) 278-4455
8	(303) 278-7012 (FAX)
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Chem Week Video Review

Bill Switzer has agreed to serve on a review panel for an ACS video conference on introducing chemistry in middle school, high school and college planned for National Chemistry Week in November. He would like as broad input as possible. He is conducting this review on the bulletin board, NCACSDIALOG. Please subscribe if interested. Send mail to: listserv@ncsu.edu. Include a one-line message saying: subscribe ncacsdialog <your name>. Replace <your name> with your name, of course, rather than your e-mail address.

Call for Papers 109th NC Section Conference Saturday, April 22, 1994 University of North Carolina, Chapel Hill

Title: _____

Presenter: _____

Co-Author(s): _____

Institution(s): _____

Session:

Analytical Biochemistry Chemical Education

Inorganic Medicinal Organic

Physical Polymer Other

Other (specify): _____

Type of Session: Oral* Poster Either

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

Other audio/visuals: _____

About the corresponding author (research director for students):

Phone: _____

e-mail address: _____

Mail address: _____

DEADLINE: Friday, March 3, 1995

Send application to:

Thomas A. Lehman Internet: lehmant@mary.iiia.org
 DUMC Mass Spectrometry Facility (919) 549-0709 (FAX)
 99 Alexander Dr, Box 14991 (919) 549-0445(W)
 Research Triangle Park NC 27709 (919) 933-8932 (H)

Micron Inc. - p.
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Area News

by Halbert H. Carmichael, halbert_carmichael@ncsu.edu

Duke: Mark J. Burk has received a Union Carbide Innovative Recognition Award-1995. **Richard L. Wells**, presented a seminar entitled "Pathways to Nanocrystals of Gallium Arsenide and Related III-V (13-15) Compound Semiconductors" at Elon College and at Clemson University. **Richard L. Wells** has also accepted appointment to the Editorial Board of *Main Group Chemistry*, a forthcoming journal published by Gordon and Breach. **Charles Lochmüller** has just completed several years as Editor of the journal *Preparative Chromatography* and saw it through both a name and direction change. *Isolation and Purification*, as it is now named, is on the shelves and is a broadly-based collection of papers by different sectors of the larger scale purification industry varying from bio-tech to nuclear chemical materials. He remains as an Associate Editor. **Charles Lochmüller** also is in the final stages of becoming the new editor of the long-established journal, *Critical Reviews in Analytical Chemistry*. Under his direction, *CRAC* will be one of the first to be accessible via a World Wide Web server as well as the familiar archival paper format of most journals today. In addition to the critical review of techniques and approaches to measurement that have characterized the Journal's contents of more than a quarter-century, Professor Lochmüller has commissioned position papers on future challenges in measurement science applied to pharmaceuticals, the environment, materials and other areas.

NCSU: Samuel B. Tove, William Neal Reynolds professor of biochemistry at NCSU died December 31, 1994. Dr. Tove served on the NCSU faculty from 1950 till his retirement in 1987. Dr. Tove's family has asked that, in lieu of flowers, donations be made to the Samuel Tove Graduate Teaching Award, Department of Biochemistry, Box 7622, NCSU, Raleigh NC 27695. **George H. Wahl, Jr.**, Chair of the ACS Division of Chemical Health and Safety had been selected to be one of four panelists in a two hour satellite telecast "How Safe is Your Laboratory?" to be broadcast from Washington on June 13.

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 5 1950 Lake Park Drive, Suite 175
 6 Smyrna GA 30080
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 8 (404) 432-8100 (voice)
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Job Openings

RTI: Contact: Research Triangle Institute, Office of Human Resources, PO Box 12194, Research Triangle Park NC 27709-2194. Phone: (919) 541-6466. Chem. Eng./Env. Eng. II/III J0283 94A B.S./M.S. in Chemistry or Envir. Eng. Must be able to travel and do computer spreadsheet programming. Will collect and evaluate data related to municipal solid waste generation and recycling. Chemist I (2 Positions) B.S./B.A. in Chemistry with training in organic synthesis. Chemist I/II B.A./B.S. in Chemistry with basic organic & analytical chemistry skills including HPLC/GC analysis. Experience in working under GLP's helpful, computer literate, good writing, organization & manual dexterity skills. Chemist I/II B.S./B.A. in Chemistry w/emphasis in organic chemistry and research exp. in chemistry, analytical chemistry preferred. Will conduct studies of the metabolism of drugs & environmental chemicals; analyze biological fluids for these chemicals. Chemist II/III B.S./M.S. in Chemistry with 1-3 years of experience in method development and proficiency in liquid gas chromatography (HPLC and GC). Env. Scientist I BA/BS (or equivalent) in Toxicology/Biological Sciences or related area with above average writing skills and experience doing literature searches. Env. Scientist II/III (DC Office) B.S./M.S. in Chemistry, Environmental Sciences or equivalent with 1+yrs. exp. in env. field. Must be computer literate; good writing & interpersonal skills essential. Monitoring Scientist I (3 Positions) G0082 75A B.A./B.S. in Science related field (BS in chemistry preferred) with good communication skills. Must have valid driver's license, ability to lift and carry at least 40 lbs.; ability to drive RV and trailer. Will conduct human exposure assessment sample and data collection in upper midwest states. Postdoctoral Chemist (2 Positions) Ph.D. in Organic Chemistry with research experience in organic synthesis.