



The Bulletin
of the
Virginia Section
AMERICAN CHEMICAL SOCIETY

APRIL MEETING NOTICE

University of Virginia
Charlottesville, Virginia

Thursday, April 21, 2005

POSTER SESSION: 6:00 - 7:00 p.m.
(*STUDENT RESEARCH*) Lobby
Chemistry Building

DINNER: 6:00 - 7:00 p.m.
Lobby
Chemistry Building

PROGRAM: 7:00 p.m.
Room 304
Chemistry Building

MENU: Pizza (many varieties), Soft Drinks

DINNER RESERVATIONS: Please make reservations by calling Susan Collins at **(434) 924-3623** or e-mail susanc@virginia.edu by **NOON** on Tuesday, April 19.

PRICE: \$7.00 - members, guests, college students; \$4.00 - high school students, high school teachers, retired members/spouses, retired teachers/ spouses

HOST: Dr. James Demas
(434) 924-3343

SPEAKER: **Dr. Eugene Stevens, State University of New York–Binghamton**

TOPIC: **“Green Plastics”**

APRIL 2005

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DR. EUGENE STEVENS



E. S. Stevens is Professor of Chemistry at the State University of New York at Binghamton. His training includes a B.S. in Chemistry from Yale University, a Ph.D. from the University of Chicago, and an NSF Postdoctoral Fellowship at Harvard University. He has conducted research on bio-polymers for more than thirty years and has published more than one hundred papers dealing with the conformational behavior of biomolecules, a topic he has explored through chiroptic methods. He is a member of the American Chemical Society, the Biophysical Society, the American Association for the Advancement of Science, the American Society of Testing and Materials, and the BioEnvironmental Polymer Society.

“Green Plastics”

New plastics are being developed, with characteristics not usually associated with plastic--plastics made from natural, renewable starting materials, plastics that are able to biodegrade completely in an environmentally benign manner. They are made from agricultural feedstocks like starch and vegetable oils rather than irreplaceable fossil fuels; they contribute little to the already burdensome problems of waste management; and they help prepare us for the time when fossil fuels become exhausted. This talk will describe the driving force behind the emerging bioplastics industry, survey the new technologies, and examine their prospects for the future.

POSTER SESSION

The Virginia Section will hold its annual poster session at the April 21 meeting at the University of Virginia in Charlottesville. The emphasis is on student research, especially work done by undergraduates. This is an excellent informal, low-stress environment for students to make research presentations. If you have a student who wishes to present a poster, please contact Dr. James Demas at (434) 924-3343, immediately. He can also be reached via e-mail: demas@virginia.edu. More information can be found on this website: <http://www.people.virginia.edu/~jnd/ACS2005.htm>. We invite everyone to come early for the UVA meeting and to support these young researchers. Outstanding college and university chemistry majors will also be recognized at this meeting.

EXECUTIVE COMMITTEE MEETING

The second Executive Committee Meeting of the year will be held at Wyeth, 1405 Cummings Drive, Richmond, at 6:00 p.m. on Friday, May 20. Officers and committee chairpersons should prepare sufficient copies of their reports to bring or send to the meeting. Persons interested in joining the Executive Committee or persons who have items for discussion at the meeting should contact Dr. Joseph Pompano, Virginia Section Chair - (804) 504-8318; [jpompano @ bichemicals.com](mailto:jpompano@bichemicals.com).

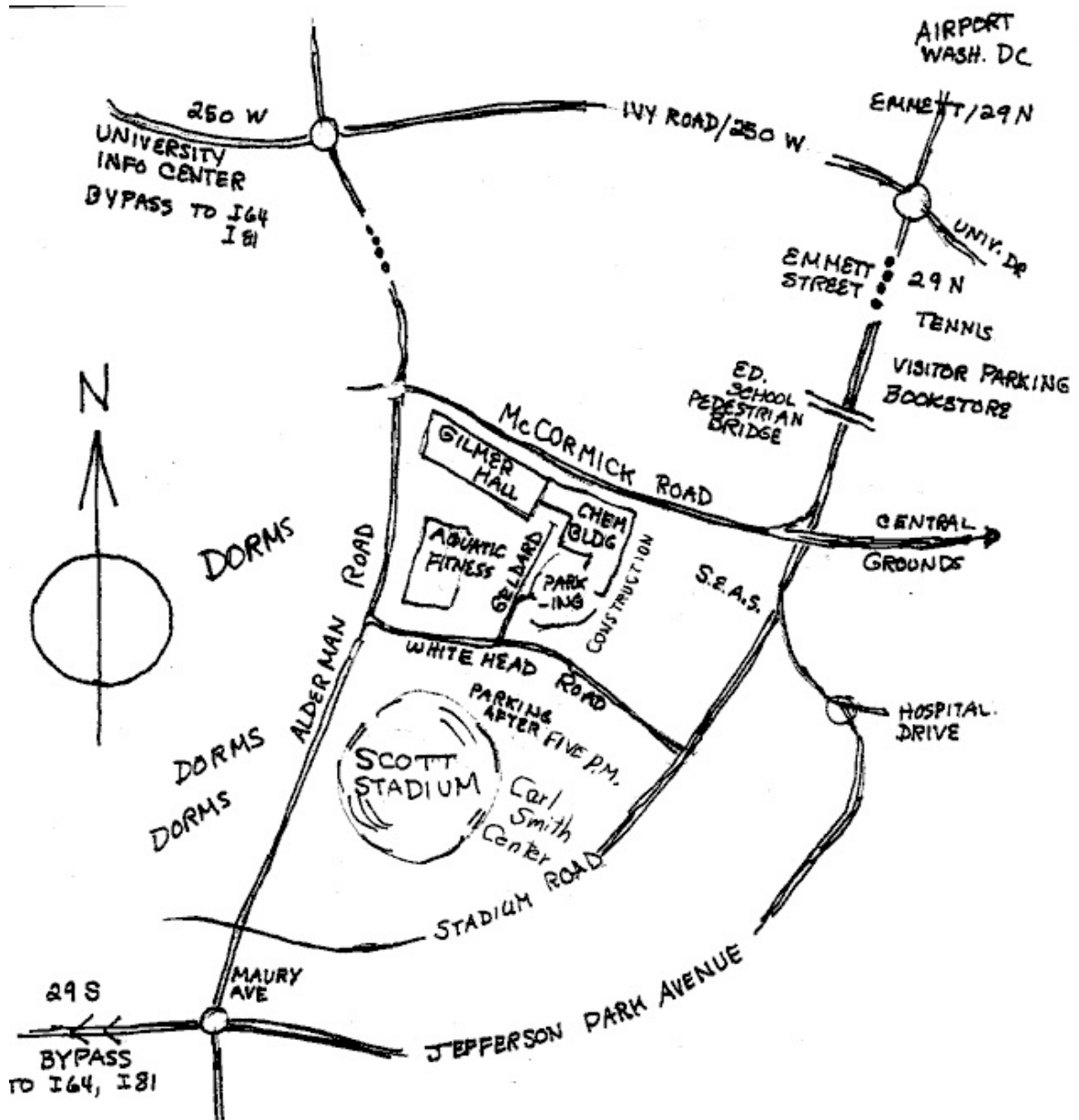
DIRECTIONS

From 29N. Come straight into town past the Cavalier Best Western (on your right), pass under two overhead bridges, and then bear right immediately afterwards. Turn right at the top of the hill at Whitehead Road. Turn right at Geldard Lane, which leads to Chemistry Department parking.

From I-64. Turn north on 29 at Exit 118. Immediately turn right at the Charlottesville/29 Business off ramp. Turn right to go into town, then turn left at the second light. Turn right immediately after the stadium on Whitehead Road. This brings you to the back or new wing of the chemistry building.

If you miss the first off ramp after I-64, turn right at the next exit (UVA information), proceed into town, turn right at the second light (Alderman Rd.), go through the first light, then make a left at Whitehead Road. Turn left into the parking lot by the new chemistry wing.

Until 5:00 p.m., all parking around the Chemistry Building is restricted and you will be ticketed. This applies to both the chemistry lot and the surrounding lots. Please time your arrival so that you park after 5:00. Note also that after 5:00 p.m. the Chemistry Building is locked except for the lobby entrances on McCormick Road. As Chemistry Drive is now a construction site, you will need to walk up the semi-concealed stairs at the upper end of Geldard; signs will be posted at 5 p.m. on the meeting day.



***** VIRGINIA SECTION NEWS *****

FUTURE MEETINGS

**VIRGINIA SECTION
EXECUTIVE COMMITTEE MEETING**

Friday, May 20 - 6:00 p.m.
Wyeth Consumer Healthcare
1405 Cummings Drive
Richmond, Virginia

VIRGINIA ACADEMY OF SCIENCE MEETING

May 18-20
James Madison University
Harrisonburg, Virginia

AWARDS TO COLLEGE SENIORS

Outstanding senior chemistry majors from colleges and universities in the Virginia Section will be honored at the April 21 Section meeting in Charlottesville. Each school has been asked to select a student to receive the Virginia Section award for undergraduate achievement. The awardees will be the guests of the Section at the meeting on April 21 and will receive a free membership in the ACS and a certificate of recognition. Chemistry departments must inform Chair Joseph Pompano of their nominees and an ACS membership application form must be completed by each nominee. If you have not submitted the name of your outstanding senior chemistry student, please contact Dr. Joseph Pompano at (804) 537-5433 or jpompano@bichemicals.com

VIRGINIA SECTION MEETINGS - FALL, 2005

Friday, **Sept. 23**, 2005 - Virginia Commonwealth University, Richmond, ANNUAL AWARDS MEETING

Friday, **Oct. 21**, 2005 - Mary Baldwin College, Staunton

Friday, **Nov. 18**, 2005 - University of Mary Washington, Fredericksburg, Dr. John J. Meister, "Your Garbage= My Reactants: Trash Recycling"

Friday, **Dec. 2**, 2005 - Virginia Union University, Richmond, Dr. Kevin M. Dunn, "Caveman Chemistry: Hands-On Projects in Chemical Technology"

VIRGINIA ACADEMY OF SCIENCE MEETING

The 83rd Virginia Academy of Science Meeting will be held at James Madison University in Harrisonburg on May 18-20, 2005. For more information, contact Jerry Bass, Executive Officer: OFFICE: 804-864-1451; E-MAIL: jbass@smv.org or check the Academy's website: www.vacadsci.org. Information on papers in the Chemistry Section can be obtained from Dr. Thomas DeVore at James Madison University: (540) 568-6672, [devoretc @ jmu.edu](mailto:devoretc@jmu.edu).

NEW MEMBERS OF THE VIRGINIA SECTION

We welcome these new members of the Virginia Section:

MAMOUN M. ALHAMADSHEH
ANDREW H. BROWN
SEAN DALY
DANIELLE N. DICKINSON
WILLIAM C. ELLIS
CASANDRA L. HERNANDEZ
SCOTT B. KENNEDY
ELIZABETH G. MALCOLM
JOHN A. MORGAN
ROBERT PAUL OHL
STACY E. PRICE
GREGORY M. SCHAAF
SEVAG SHANT SINANIAN
DAVID J. TOGNARELLI
WILLIAM A. VON WOTRING
YAN ZHANG

SARA L. ANASTASIO
JOHN BUSHWELLER
TIMOTHY DANIELSON
BIAO DUAN
BRENDLYN DENISE FAISON
MIRTH T. HOYT
MARY K. LOVATO
JOSHUA MCCOY
MICHAEL MURPHY
ARUN H. PATEL
TRENT D. RIDDER
EUN JAE SHIN
MARY BUTLER STONE
NAMRATA D. UDESHI
KEITH D. WILKINS
YONGDA ZHANG

RAMIN AZODANLOU
BAPPADITY CHATTERJEE
NATHAN J. DEAN
PHILIP A. EGAN
BRIAN S. GRELLA
MARILISE A. HYACINTH
LOUIS P. LUE
MARILYN TEBBS MILLER
ANDRAS NAGY
SRINIVAS PEDDI
MICHAEL R. SANDRIDGE
MARK A. SHMORHUN
CHANDLER ROY TAYLOR
THEARITH H. UNG
MIN YANG
RAN ZHU

TEACHING POSITION AVAILABLE

Tandem Friends School, a small private school located in Charlottesville, is seeking a Chemistry Teacher for the 2005-2006 school year. Interested persons should contact Christine Putnam at cputnam @ tandemfs.org or at (434) 296-1303, ext. 269.

SUMMER POSITION AVAILABLE

Richard Bland College is seeking a qualified individual to teach the second semester of the general chemistry sequence this summer. This is a four-week course with both lecture and laboratory components. A Master's degree or 18 graduate hours in chemistry is required. If you would like to be considered for this temporary position, please contact Dr. Mary Gurnick, Richard Bland College, 11301 Johnson Road, Petersburg, VA 23805; (804) 862-6253; mgurnick@rbc.edu.

CHEMISTRY SEMINARS AT THE UNIVERSITY OF VIRGINIA

- Apr. 8 **Dr. David Kimball**, Lexicon Pharmaceuticals, "The Role of Organic Chemistry in Drug Discovery"
- Apr. 12 **Professor Stephen Kent**, University of Chicago, "The Chemistry of Protein Function"
- Apr. 15 **Professor Tuan Vo-Dinh**, University of Tennessee, Knoxville, "Advanced Biomedical Photonics: From Laser to Biochip"
- Apr. 22 **Professor Richard Mathies**, University of California, Berkeley
- Apr. 29 **Professor Ian Manners**, University of Toronto, "Functional and Supramolecular Metallopolymers"

Seminars are scheduled for 4:00 p.m. in Room 304 of the Chemistry Building. The complete colloquium schedule can be found at <http://www.virginia.edu/chem/newsandevents/seminars/>.

SEMINARS AT VIRGINIA COMMONWEALTH UNIVERSITY

- Apr. 7 **Dr. Jeff Long**, Naval Research Laboratory
- Apr. 12 **Dr. Dmitry Rudkevich**, University of Texas at Arlington, "Gases and Supramolecular Materials"
- April 18 **Prof. Peter B. Dervan**, California Institute of Technology. "Toward Transcriptional Therapy with Programmable DNA Binding Oligomers " (**KAPP LECTURE**)
- Apr. 28 **Dr. Ken Eisenthal**, Columbia University
- May 5 **Dr. Michel R. Gagne**, University of North Carolina at Chapel Hill, "Synthetic Active Sites for Transition Metal Chemistry: Feeble Attempts to Mimic Mother Nature"

Seminars are in the Kapp Lecture Hall, Room 1024, in the Mary E. Kapp Wing of Oliver Hall, 1001 West Main Street in Richmond. Refreshments at 3:45 PM, Seminars at 4:00 PM. The public is invited. **For more information, call (804) 828-1298.**

REPORT ON THE FEBRUARY MEETING

On Friday, February 18, a large and enthusiastic audience at the University of Richmond heard Dr. Charles L. Liotta of the Georgia Institute of Technology speak on environmentally benign green chemical processes. This was the W. Allan Powell Lectureship in Chemistry at the University of Richmond.

Dr. Liotta was introduced by Dr. John Gupton, Chair of the Department of Chemistry at the University of Richmond, and a former student of Dr. Liotta at Georgia Tech. Prior to the lecture, Dr. William Myers introduced Dr. Allan Powell and seven members of the Powell family who were in attendance (one of Dr. Powell's grandsons is currently enrolled at the University of Richmond). The program was preceded by a delicious meal in the Heilman Dining Center. The Section thanks Dr. John Gupton, Ms. Mandy Mallory, and the chemistry faculty, staff, and students for organizing this meeting. We also thank the U of R Chemistry Department for subsidizing a portion of the meal cost.



JUDGES NEEDED FOR THE VJAS MEETING

Judges are needed for the 2005 meeting of the Virginia Junior Academy of Science (VJAS). On Wednesday, May 18, about 750 middle and high school students from across the state will be presenting papers on their research work. The meeting will be at James Madison University in Harrisonburg. Judges are needed in all areas, including chemistry, consumer science, medicine and health, physical science, engineering, and environmental science. Judges receive copies of written papers in advance and then on May 18, they hear oral presentations by the students. If you need additional information or wish to volunteer as a judge, contact Susan Booth, VJAS Director, at (757) 874-9301; susanscience@msn.com.

NEW NUMBER FOR SECTION CHAIR

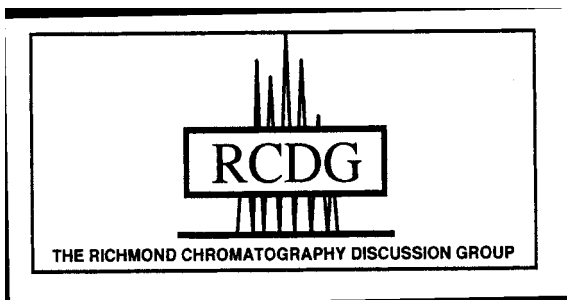
Dr. Joseph Pompano, Section Chair, has a new telephone number: (804) 504-5318. His e-mail address is still [jpompano @ bichemicals.com](mailto:jpompano@bichemicals.com).

QUESTIONS FROM THE PAST

This question was asked in the March Bulletin: Dr. Attila Pavlath, former President of the American Chemical Society, addressed the Virginia Section on January 21 at the Science Museum of Virginia. Dr. Pavlath was the featured speaker at an earlier meeting of the Virginia Section. **When and where was that meeting held and what was Dr. Pavlath's topic?** On November 17, 1999, Dr. Attila Pavlath spoke at Mary Washington College on "Biomass Utilization."

A new question from the past: The Nominating Committee for the Virginia Section presented a slate of officers that included Robert Timberlake Kemp, Jr. for Chairman, Franklin D. Kizer for Chairman-Elect, and Carl Trindle for Vice-Chairman. **What year was that?**

RCDG MEETING



The Richmond Chromatography Discussion Group (RCDG) will be meeting at 5:30 p.m. on Wednesday, April 13. The meeting will be held in Virginia Room D of the Student Commons at Virginia Commonwealth University, 907 Floyd Avenue in Richmond. The program will feature presentations by the 2004-2005 Ingraham Scholarship recipients. Hope P. Bailey will speak on "HPLC-DAD and Chemometric Analysis of Nine Amphetamines;" Richard Keithley's presentation will be on the "Characterization of

Potential Drug Interactions between Dextromethorphan, fluoxetine, and PMMA." Refreshments, sponsored by Shimadzu Scientific Instruments, will be served after the program. More information and directions can be found on the RCDG website: www.rcdg.org.

TRUSTEES OF THE VIRGINIA SECTION

The Trustees of the Virginia Section are authorized and directed by the Executive Committee to hold or invest funds, or sell securities, in the name of the Virginia Section. They make semiannual reports to the Executive Committee. Trustees serve three-year terms. The current Trustees are Dr. Phil Burks (term expires in 2007), Dr. James Demas (term expires in 2005), and Dr. William Welstead (term expires in 2006).

NOMINATIONS FOR AWARDS

The Virginia Section is soliciting nominations for these awards: Distinguished Service Award, Outstanding High School Chemistry Teacher Award, Outstanding Middle School Science Teacher Award, Outstanding Industrial Innovator Award. Names of candidates should be forwarded to Sheryl Baldwin or Yezdi Pithawalla, Chairs of the Awards Committee: Sheryl Baldwin, (804) 827-0606, [sdbaldwin @ earthlink.net](mailto:sdbaldwin@earthlink.net); Yezdi Pithawalla, (804) 274-4587, [yezdi.b.pithawalla @ pmusa.com](mailto:yezdi.b.pithawalla@pmusa.com).

CHEMISTRY AT THE UNIVERSITY OF VIRGINIA

The University of Virginia Department of Chemistry is of medium size, combining outstanding physical facilities with a close-knit community of scholars. With a faculty size of 30, a graduate student body of about 120, and about 50 research associates, a stimulating atmosphere strongly encouraging interactive association has been created. Our 30 faculty members include professors who are nationally and internationally recognized in their fields. The list of recent honors received by faculty members includes the American Chemical Society's Award for Creative Work in Synthetic Organic Chemistry; 1993 and 1998 Dreyfus Teacher-Scholar Awards for excellence in both teaching and research; 1992 and 1996 Virginia Scientist of the Year awards, a 1994 Sloan Foundation Award, 1997 and 1999 Alexander von Humboldt Research Prizes, an Analytical Chemistry Award in Chemical Instrumentation, a 1999 Presidential Early Career Award for Scientists and Engineers, a 1999 Coblentz Award, and a 2001 MacArthur Genius Award. Faculty research areas span a wide range offering a varied program of courses and research problems. Recent graduate student national fellowship awards include Kristy DeWitt awarded the Cognis Corporation Research Fellowship in Colloid and Surface Chemistry and Scott Capitosti awarded the ACS Division of Medicinal Chemistry Predoctoral Fellowship Award. A graduate student can expect to have considerable input in both the design of his or her own degree program as well as in matters pertaining to the operation of the Department as a whole.



The goal of graduate study in chemistry is to develop outstanding young scientists able to make significant contributions in their chosen fields. With this in mind, emphasis is placed on research that contributes to our fundamental body of knowledge. Also important is the exceptional opportunity to interact not only with fellow graduate students, research associates and faculty, but also with outstanding scientists from all parts of the country and world. This participation in the forefront of scientific discovery prepares the student for the role of independent contributor to the scientific community.

Teaching and research in the Department of Chemistry have been considerably strengthened in recent years by a number of interdisciplinary centers and programs including Molecular Biophysics, Structural Genomics, Chemical Physics, Drug Discovery, and Laser Interactions with Matter. These programs, along with ongoing research in analytical methods, synthetic inorganic and organic chemistry, spectroscopy and other areas of physical chemistry, provide the student with a choice of strong research areas over a broad range of the chemical sciences. The faculty attracts more than \$10.5 million yearly in outside funding to support these programs, an indicator of the vigor of research being carried out in the Department.

The graduate program is further supported by an extensive library system. The Barksdale Chemistry Library, established by private gifts, contains about 20,000 volumes on chemistry-related subjects. Up-to-date sets of the important chemical journals, books, and on-line databases are readily accessible. Graduate students are entitled to keys to the building and to the library for research and reading. Alderman Library has more than 1.6 million books as well as extensive collections of manuscripts, maps, prints, and microfilms. The Science and Engineering Library, the large library of the Medical School, and the Physics Library contain numerous additional books and journals in chemistry and allied fields.

RESULTS OF MEMBER SURVEY

In October, 2004, a survey questionnaire was sent to the members of the Virginia Section.; 120 persons responded. Here are some of the survey results:

I have found my service in the ACS rewarding because:

- “People and topics are stimulating”;
- “It gives me the opportunity to learn to know and meet with other chemists”;
- “Nice to be associated with professional chemists (both industrial and academic)”;
- “Interaction with other members”;
- “Provides a way of interacting with people in the same discipline”;
- “ACS hasn’t served me well in the past decade or so”;
- “It connects me with the academic community”;
- “The VA Section has useful activities. The national ACS is an overgrown, unresponsive bureaucracy that absorbs funds. The national meetings are always scheduled to conflict with our academic calendar – the Fall Meeting always occurs during the first week of classes. Those of us who teach cannot miss classes.”;
- “The Society addresses all issues pertinent to chemistry in a responsible and ethical manner”;
- “I am a chemical engineer; teacher of ChE most of my professional life; special interest in the ‘bio’ area”; “Contact with nice folks, learning opportunities”;
- “They are just good”;
- “It looks good on a resume”;
- “Networking originally–now for news about developments in chemistry”;
- “Fellowship and stimulation of colleagues”;
- “I get a sense of professionalism by interacting with other chemists”;
- “In earlier years of career–interesting programs in home W.V. location–networking and participation in taping weekly ACS programs”;
- “Yrs ago, it provided opportunity to discuss problems with others–meet friends”;
- “We work for an important and worthwhile cause. I also enjoy the fellowship”; “Good people, common interests, stimulating, educational”;
- “I have met some wonderful people and I am contributing to the purpose of organization by membership”; “Source of Tech Info Chem & E News”;
- “Of the professional stimulation it provides to all aspects of my work”;
- “I feel the need to give back to the profession”;
- “I enjoy getting to know more and more people in the field of chemistry”;
- “I stay connected to the fields of chemistry and engineering”;
- “I worked with Pre-college students”;
- “Of high minded camaraderie–and science”;
- “Of professional activities and the good people”

What suggestions do you have for improvements in the Section Bulletin?

“Are you kidding? It’s super”;

“Good as is. Occasionally late in arriving.”;

“None—great bulletin”;

“Committee reports and brief descriptions”;

“Send more in advance w/details for each month”;

“None”;

“Send out in timely manner”;

“O.K. the way it is now”; “It is great and I know the people (they) put in to guess”;

“Quarterly: list employment in region by discipline. Yearly: list top employer in region; list school populations by discipline. Have a ‘hot’ Regional Topics page”;

“I think it is excellent”;

“Make it more reader friendly—have articles of interest”;

“It’s very good already!”;

“While the insert on Trick or Treating was funny, I thought it was totally out of place in a professional bulletin (and I’m not old, either)”;

“None. Va. Sect. Bulletin is excellent”;

“O.K. in general. However ‘off color’ articles such as “Ten reasons Why etc.” - October, 2004 ... was inappropriate and should not be included in future!”;

“Print in Color/Glossy”;

“Do something to get H.S. Chem Teachers involved in activities. Do not make them feel inferior”;

“None”;

“Give people the option to receive electronically to save \$ on mailing”;

“The Bulletins I read have been good and informative”;

“None”

What suggestions do you have for future programs or meetings?

“Non-academic locations along w/ a tour of facilities – like the Science Museum, Consolidated Labs, BioTech Center, etc.”;

“The programs/meetings I’ve attended have been good and informative”;

“Don’t necessarily rely on Speakers Bureau for speakers”;

“I enjoy meetings that are general enough for my non-chemist wife to come to and also enjoy”;

“What would it take to get me to come to a program? It would have to be something special, something dynamic, maybe astronomy at the science museum. I don’t know...”;

“Plant tours”;

“Have more of a business focus for at least one meeting/year”;

“Consider meetings without dinner”;

“Need for chemists in Environmental Science; problem of mercury in old laboratories and hospitals.”;

“Nanotechnology; Converting(?), Ink and Printing Chemistry”

What suggestions do you have for other Section activities?

“Some programs for Pre-College Teachers. Some of us are working in this from Dec NSTA/VAST and including VA Section”;

“More technical workshops”;

“Probably need to do more to involve college students and student affiliate groups”;

“Have a mtg outside with a cookout and beer to promote social interaction. Have alcohol available at all mtgs (cash bar). Have wine at the Powell lecture (where did it go?)”;

“This area is in good shape at this point”

Other Comments or Suggestions?

“I think we need to work more effectively at reaching the general public on chemical issues”;

“I’ve enjoyed doing programs in elementary schools during National Chemistry Week and throughout the school year. I call my program ‘Chemical Curiosities’ and I’ve presented it to Scout Troops and other youth groups as well as elementary schools in Culpeper and surrounding counties. I typically do at least 30 programs per year. I’ve also done presentations at the VA Science Museum in Richmond during National Chemistry Week for many years. I’ve also done programs for the Regional Governor’s School in Culpeper and Fredericksburg.”;

“I would like to work w/ Ryan Warren on P.C. Education”;

“Check for a critical mass in the Winchester, Frederick & Loudoun Counties. These areas are growing rapidly. The only ‘professional’ group is involved with quality control. Perhaps a mini-merger of ACS and AIChE + ..? The closest AIChE chapter is in D.C. “;

“I am confined to a wheelchair”;

“I am retired and attend only if interested in subject and if meeting place is close or convenient”;

“I am retired, getting older, but still trying to keep up with what’s going on in chemistry. Active participation days are about over.”;

“No—you are doing a great job. Since I am retired, I will not attend or participate in many activities. However, I do appreciate hearing about them and hopefully will show up at some.”;

“Throughout my professional career I was active (very) in a wide range of ACS activities, most recently (until ≈ age 77) as a volunteer under the ‘Speakers Bureau’ activities.

I regularly attended national meetings, etc. I am now 81 and ‘suffer’ (= am slowed down by) congestive heart failure so I don’t do a lot of traveling. I believe that Division activities are useful and desirable but no longer ‘my cup of soup’.”;

“The section geography seems arbitrary. We are closer to Lynchburg College, Sweet Briar College, R-M Woman’s College than to Bridgewater & Mary Washington, yet they are in the Blue Ridge Section. Maybe there could be some joint section meetings?”;

“Member for 57 years – active in D.C. in the 50’s! Do enjoy the Bulletin and am glad to see your survey. Good luck to the Section.”;

“Is there a ACS Regional Meeting in the Winchester/Northern Shen Valley?”

REGISTER YOUR OPINIONS

The survey results given above reflect the opinions of less than ten percent of the Section's members. If you would like to reinforce or rebut some of the comments offered by the survey respondents, or if you have other suggestions, complaints, or comments, please forward them to any member of the Executive Committee (see list in the March issue of the Bulletin or on the Section website), or contact Dr. Joseph Pompano, Section Chair (804-504-8318; jpompano @ bichemicals.com). Items for publication should be forwarded to Dr. James Beck, Bulletin Editor (804-733-5286; beckjd @ juno.com).

EARTH DAY 2005—APRIL 22

On April 22, 2005, chemists will be participating in the celebration of Earth Day. The theme is "Air—Here, There, Everywhere" and the Unifying Event for Chemists Celebrate Earth Day is Kite Flying. Chemists and organizations are invited to help celebrate the chemistry of the atmosphere and the wind by hosting activities such as kite decoration, a height contest, and the attachment of sensors to kites. There will be a music video contest based on the theme. The ACS has information on Earth Day and a wealth of teaching resources available at www.chemistry.org/earthday. The ACS online store offers a variety of Earth Day materials such as bookmarks, paperweights, kites, wrist bands, and squeeze balls. Items can be ordered at www.chemistry.org/store.



TEACHING RESOURCES FOR EARTH DAY

Hands-on activities, safety guidelines, correlation with science education standards, and related articles are posted on the Chemists Celebrate Earth Day website. There are lists of reference books and electronic resources, including lots of hands-on activities and useful articles. Try the word-find game on the Earth's Atmosphere and Beyond or the Martian Maze. There will also be a web-based interactive activity. Check out www.chemistry.org/earthday.

COME EARLY ON APRIL 21 TO SEE THE UNDERGRADUATE RESEARCH POSTERS

WORDS OF WISDOM FOR APRIL:

*“The Only Way To Get Finished
Is To Get Started”*

Milli's Safety Tips for Aspiring Young Chemists

Always work with an adult.

Read and follow all directions for the activity.

Read all warning labels on all materials being used.

Wear eye protection.

Follow safety warnings or precautions, such as wearing gloves or tying back long hair.

Use all materials carefully, following the directions given.

Be sure to clean up and dispose of materials properly when you are finished.

Wash your hands well after every activity.

Never eat or drink while conducting an experiment, and be careful to keep all of the materials used away from your mouth, nose, and eyes!

Never experiment on your own!

VIRGINIA DISCOVERY MUSEUM

The Virginia Section has made a contribution of \$500 to the Virginia Discovery Museum in Charlottesville. The Museum provides exhibits and sponsors a variety of programs for children and adults in the Charlottesville area. The ACS funds will be used to purchase science kits and materials for use in the Magic School Bus After-School Science Club, a program for children ages 4-7 that allows them to "discover the mysteries of science through hands-on activities, demonstrations, and special guests." Peppy G. Linden is the Executive Director of the Museum; Peter Clark is the Gallery Manager, and Anneliese Harmons coordinates the public programs. More information on the Museum can be found at <http://www.vadm.org>



Dr. James Demas (right) Trustee of the Virginia Section, presents the ACS check to Peter D. Clark, Gallery Manager of the Virginia Discovery Museum



THE W. ALLAN POWELL LECTURESHIP

The W. Allan Powell Lectureship in Chemistry at the University of Richmond has been held annually since 1988. Each year, the Virginia Section of the ACS joins the University of Richmond for this meeting. The Powell Lectureship was established by the Department of Chemistry at the University of Richmond to honor Dr. W. Allan Powell who served the University for 34 years. Dr. Powell was chairman of the Chemistry Department of 23 years. He retired from the University in 1986 and resides in Cary, North Carolina. He was an active member of the Virginia Section, serving as its chairman in 1964 and as a Section councilor for many years. He received the Distinguished Service Award in 1977. Dr. Powell compiled the History of the Virginia Section that was published in 1996.



The Powell Lectureship is an endowed lectureship that is devoted to specific advances in the chemical sciences. Past lecturers include

1988 - Gary Hieftje
 1989 - Jerrold Meinwald
 1990 - Dudley Herschbach
 1991 - Koji Nakanishi
 1992 - Mark S. Wrighton
 1993 - Nicholas J. Turro
 1994 - Herbert C. Brown
 1995 - Mary L. Good
 1996 - David A. Evans

1997 - Gertrude B. Elion
 1998 - Ronald Breslow
 1999 - Royce W. Murray
 2000 - Sidney Hecht
 2001 - Orville Chapman
 2002 - Michael Marletta
 2003 - Robert Crabtree
 2004 - Edward C. Taylor
 2005 - Charles L. Liotta

PHOTOS FROM THE 2005 POWELL LECTURESHIP



Dr. W. Allan Powell and members of his family at the Powell Lectureship, University of Richmond, February 18, 2005



Dr. Jerry Bass with Dr. Powell



Dr. Powell with Dr. Stuart Clough of U of R

NEUROCK RECEIVES CATALYST AWARD

Dr. Matthew Neurock, Professor of Chemical Engineering and Chemistry at the University of Virginia, has been named the recipient of the Paul H. Emmett Award in Fundamental Catalysis. The Emmett Award is presented by the North American Catalysis Society to researchers who are age 45 or younger and is given for advancing understanding of basic catalytic phenomena. Professor Neurock is being honored for his computational studies of complex systems in heterogeneous catalysis and surface chemistry.

CHEMICAL EDUCATION COMMITTEE

The Chemical Education Committee of the Virginia Section works with pre-college students and teachers. Committee functions include:

- ❖ maintaining contact and communication with pre-college science teachers in the Section;
- ❖ planning and coordinating activities such as meetings and workshops for science educators and for pre-college students;
- ❖ administering the Section's grants for elementary and middle school science projects;
- ❖ and soliciting nominees and selecting recipients for the Outstanding Chemistry Teacher and the Outstanding Middle School Science Teacher awards.

Ryan Warren is the committee chair. Bill Rademaker and Larry White are members of the committee. All three are high school chemistry teachers. They are planning some new activities for teachers and students and would welcome suggestions and offers to help. Ryan can be contacted at 304 N. Sheppard Street, Richmond, VA 23221; (804) 342-1323; warrencr @ vcu.edu.

GRANTS FOR K-12 SCIENCE PROJECTS

The Virginia Section is soliciting proposals for grants to support school science projects in grades K through 12. The \$50 to \$500 grants will be provided to teachers in the Virginia Section for the purchase of materials and supplies. To apply for support, request an application form from Mr. Ryan Warren, 304 N. Sheppard Street, Richmond, VA 23221; (804) 342-1323; warrencr @ vcu.edu. Or complete an application on-line by accessing the Virginia Section website at <http://membership.acs.org/V/VA/grants.htm>.

E-MAIL NOTICES OF SECTION MEETINGS

If your Bulletin does not always arrive in a timely fashion or if you simply would like to be reminded of Section meetings, you may wish to take advantage of our meeting notification service. Just send us your e-mail address and we will send you, via e-mail, a brief reminder of the upcoming meeting. We'll try to get the notice to you about a week before the meeting date so you'll have time to make a dinner reservation if you decide to attend the meeting. Send your e-mail address to James Beck at beckjd@juno.com.

THE BULLETIN

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CAN YOU IDENTIFY THIS PERSON?

The photo is from 1974. The subject was born in Colorado and lived in Colorado and Wyoming during his youth. He received a B.S. degree from the University of Wyoming, an M.S. from the University of Mississippi, and a Ph.D. in chemistry from the University of Virginia. He worked at the Ernst Bischoff Company in Tennessee, the Southern Research Institute in Alabama, the Mobil Chemical Company in Richmond, and the Naval Weapons Laboratory in Dahlgren, Virginia. During World War II he was a civilian chemical engineer with the Chemical Warfare Service. His research interests included organophosphorus chemistry, organic reaction mechanisms, and active chemical systems.

The March "mystery person" was **Dr. Sam Perone**. He was the speaker at the March 17, 1977 Virginia Section meeting held at Virginia State University. His topic was "Computerized Pattern Recognition Applied to Chemical Analysis."

