



**JANUARY MEETING NOTICE**

**SCIENCE MUSEUM OF VIRGINIA**

**Richmond, Virginia**

**Friday, January 18, 2008**

**SOCIAL HOUR:** **6:00 p.m.**  
R. F. & P. Forum  
Science Museum of  
Virginia  
2500 W. Broad Street

**DINNER:** **6:30 p.m.**  
R. F. & P. Forum

**PROGRAM:** **7:15 p.m.**  
R. F. & P. Forum

**MENU:** Pork BBQ, Smoked Chicken, Baked Beans, Cole Slaw, Green Beans, Rolls, Apple Cobbler, Iced Tea and Lemonade

**PRICE:** Members/Guests - \$11.00; Students, High School Teachers/Spouses, Retired ACS Members/Spouses, Retired Teachers/ Spouses - \$6.00

**DINNER RESERVATIONS:** Please make reservations for the dinner by **NOON on Wednesday, January 16** by calling Ken Chapman at (804) 448-4852 or by e-mail to kmc97 @ aol.com. Please honor your dinner reservations!

**HOST:** Mr. Kenneth Chapman, (804) 448-4852; kmc97 @ aol.com

**SPEAKER:** **Mr. James Kessler, American Chemical Society**

**TOPIC:** **“Local Sections and K-8 Science Education — A Team Effort”**

**JANUARY 2008**

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13	14	15	16	17	18	19
			<i>reservations</i>		<i>meeting</i>	
20	21	22	23	24	25	26
27	28	29	30	31		

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**Mr. James Kessler**

Jim Kessler's science education career started as a classroom teacher in 9<sup>th</sup> and 10<sup>th</sup> grade biology and physical science. He has spent the last 18 years developing and publishing science activities for elementary and middle-school students and teachers through the Education Division of the American Chemical Society. Over the last few years, he has been involved in creating the book **Inquiry in Action** and in conducting in-person and on-line teacher professional development workshops to help teachers incorporate more inquiry-based physical science into their teaching. He is the Manager of the Office of K-8 Science in the Education Division of the American Chemical Society in Washington, D.C. He helps chemists to prepare effective classroom experiences and teachers to make better use of visits by chemists.



**“Local Sections and K-8 Science Education — A Team Effort”**

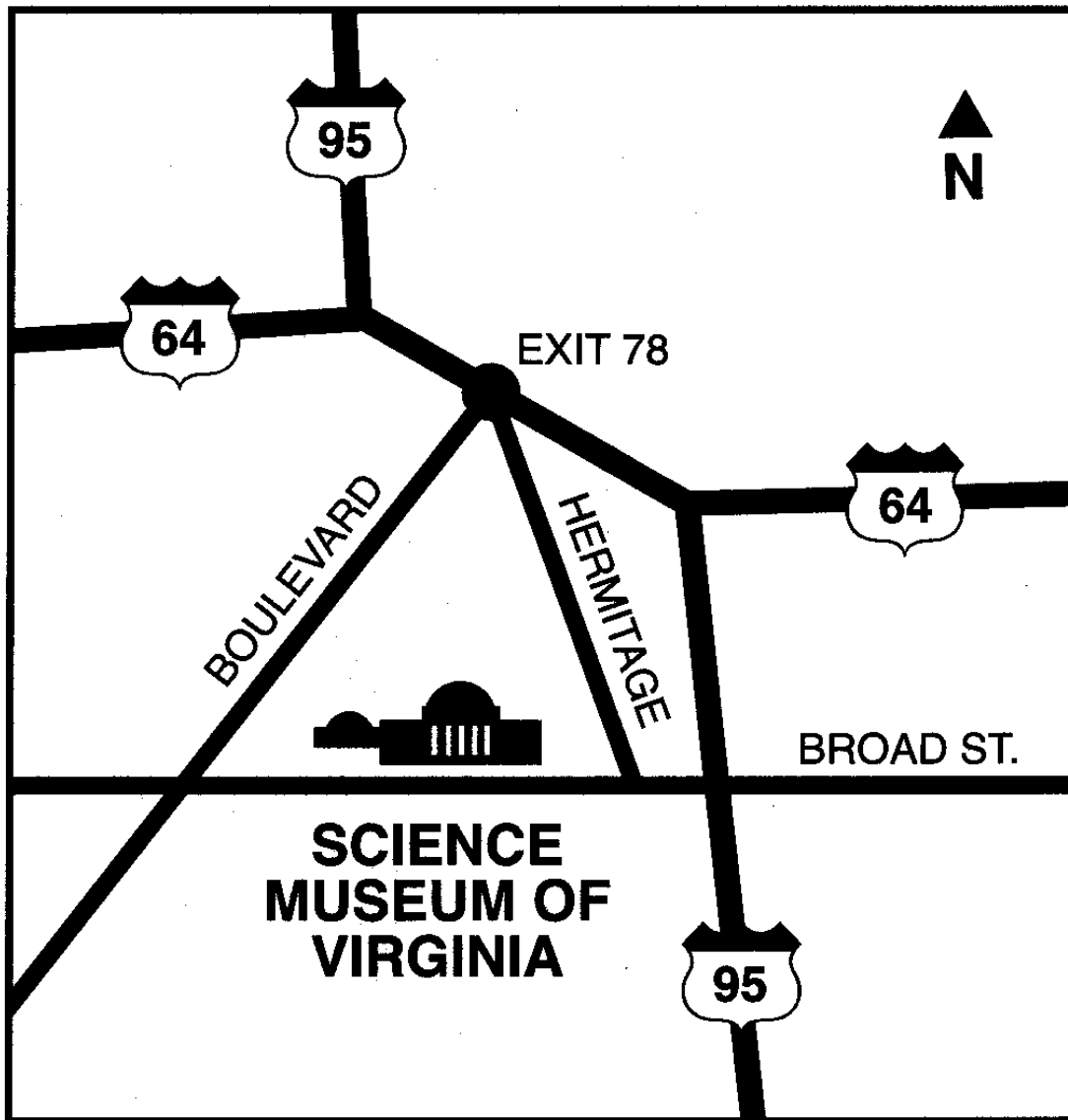
Young children are innate scientists, whose enthusiasm for chemistry is always enhanced by contact with professional chemists. I will talk about the two-prong approach that the Office of K-8 Science takes to helping elementary and middle school teachers teach chemistry-related science content and how local sections can get involved by teaming up with us to help. One way is to organize and sponsor teacher professional development workshops for the teachers in the school districts in the local section. I will describe these workshops and how the local section can organize them. The other prong is the Kids & Chemistry program in which chemists volunteer to go into a classroom to do activities that support the teaching of the curriculum. I will describe this program and the steps to forming a team of volunteers who can visit one or more elementary or middle schools during the school year.



*Happy New Year!*



**WORDS OF WISDOM FOR JANUARY :** *“The Time Is Always Right To Do What Is Right”*



The  
Science  
Museum  
of

Virginia is located in mid-town Richmond, Virginia, at 2500 West Broad Street in the historic Broad Street Station designed by renowned architect John Russell Pope. The Science Museum of Virginia is easily reached via Interstate 95 and Interstate 64.

From the north or west: Take I-95 South or I-64 East to Richmond (I-95 and I-64 run together through Richmond). From I-95, take the Boulevard exit (# 78), bear right onto Boulevard. Take Boulevard to West Broad Street (US 250) (4th traffic light). Turn left onto West Broad Street and go two blocks. The Science Museum is on your left.

From the south or east: Take I-95 North or I-64 West to Richmond (I-95 and I-64 run together through Richmond). From I-95, take the Boulevard exit (# 78) and bear left onto Hermitage Rd. Take Hermitage south for 1.3 miles to West Broad Street (US 250). Turn right onto West Broad St. and proceed for one half mile. The Science Museum is on your right.

There is ample free parking adjacent to the museum.

## \*\*\*VIRGINIA SECTION NEWS\*\*\*

### FUTURE MEETINGS

DATE: **February 8, 2008**  
 LOCATION: University of Richmond  
 Richmond, VA  
 HOST: Dr. Carol Parish  
 PHONE: (804) 484-1548  
 E-MAIL: cparish @ richmond.edu  
 SPEAKER: **Dr. Roald Hoffmann**  
 TOPIC: "All the Ways to Have a Bond"  
 (POWELL LECTURESHIP)

DATE: **April 11, 2008**  
 LOCATION: University of Virginia  
 Charlottesville, Virginia  
 HOST: Dr. James Demas  
 PHONE: (434) 924-3343  
 E-MAIL: demas @ virginia.edu  
 SPEAKER: **Dr. Richard Day**  
 TOPIC: "Fluorescent Proteins from  
 Marine Invertebrates—New  
 Tools for Studying Protein  
 Dynamics in Living Cells"

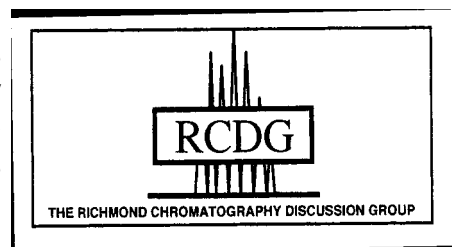
### EXECUTIVE COMMITTEE MEETING

The Virginia Section Executive Committee will meet at 9:00 a.m. on Saturday, January 19 at the Downtown Campus of J. Sargeant Reynolds Community College, 7<sup>th</sup> and Leigh Streets in Richmond. The meeting will be in Room 172. Refreshments will be served at 8:30 a.m. See the Section website for full directions and the meeting agenda—<http://membership.acs.org/V/VA/>. Additional information on the Executive Committee and on the meeting can be obtained from the incoming Section Chair, Mr. Charles E. (Trey) Gregory, III; (804) 504-8840; cgregory @ bichemicals.com. The meeting is open—members of the Section are invited to attend.

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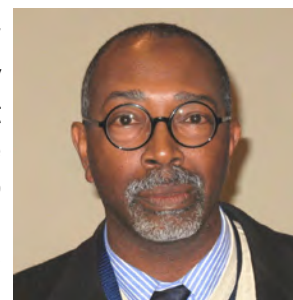
### **E RICHMOND CHROMATOGRAPHY DISCUSSION GROUP**

The Richmond Chromatography Discussion Group (RCDG) promotes the interests of chromatographic and other separation sciences by expanding the awareness and capabilities of individuals from the scientific community. The group publishes a newsletter, presents lectures, and provides student scholarships. For more information and a schedule of their seminars, check their website: [www.rcdg.org](http://www.rcdg.org).



## THE CHAIR'S CORNER

To the Virginia Section, I thank you for allowing me to serve as your 2007 Chair. This has been an honor and a privilege. A special thanks to Dr. Dorothy Eseonu, Past-Chair, for dealing with me and all the questions I had about "everything" and to Dr. Jim Beck for his e-mails and phone calls to make sure "things" were on track. I appreciated his reminders and thoughtfulness. I plan to continue supporting the Section and look forward to working with Charles (Trey) Gregory, our incoming Chair, and the other officers and members of the Executive Committee.



In January 2007, I formulated the Local Section and the Chair's goals. Just to recap and reflect for a moment, I reproduced those goals below:

### Local Section Goals -

- Support ACS Programs and Initiatives with major emphasis on the Chemistry Olympiad, National Chemistry Week, and other activities as approved by the Executive Committee
- Promote career development and professional interactions among members
- Continue to ensure efficient operation of the Section

### Chair's Goals -

- Increase communication and interaction with chemistry teachers and student at high schools, community colleges, colleges, and universities
- Continue officer meetings to share information and always follow up with committee chairs and members to provide assistance as needed
- Make special efforts to address the needs of younger chemists, as well as women and minorities, and to increase their participation in VA Section activities
- Recognize volunteers

Those were our goals and shown below is a list of some of the Section's 2007 accomplishments, activities, and project initiatives.

- The Section welcomed one hundred eighty-five new members
- The Section was a ChemLuminary Award Finalist for Outstanding Performance by a Local Section
- The Section partnered with the Chemistry Club at John Tyler Community College in executing Earth Day and National Chemistry Week (NCW) Activities
- Two ACS National Poster Contest Winners were from the Section; Earth Day Haiku 2nd place winner 3rd-4th grade category, and NCW 1st place winner K-2nd grade category
- The Section received an ACS National Award for Greatest Involvement in Chemists Celebrate Earth Day
- The Section had two Student Affiliate Chapters that received Honorable Mention Awards from the ACS (Longwood University and the University of Mary Washington)
- Eight Local Section meetings were held at diverse locations, including one jointly sponsored meeting with the University of Richmond—the W. Allan Powell Lectureship
- The Section thanked our members who served as Local Section meeting hosts: Charles (Trey) Gregory; William Myers, William Anderson, James Demas, Sally Hunnicutt, John Thoburn, Roy Gratz, Kristine Smetana, James Beck
- The Section's Chemistry Olympiad had 35 schools participate (over 1000 students); two students received honors on the National Exam and Olympiad Team winners were recognized

- The 85th Annual Meeting of the Virginia Academy of Science was held at James Madison University
- Section members served as judges at the Virginia Junior Academy of Science, Richmond Metro Science Fair, and Virginia State Science and Engineering Fair (financial support for the Chemistry award at the two latter events was given by our Section)
- The Section provided several Grants for K-12 science project support
- The Section recognized outstanding senior chemistry majors at 10 colleges and universities; each student received free ACS membership, a Merck Index, and a recognition certificate
- The Section's Councilors attended both ACS National Meetings
- Section members participated in "Lunch and Learn" presentations at schools (K-12) and in the scientific community
- The Section partnered with The Virginia Department of Education to promote recruitment of scientists into the Virginia Science Resource Network (VSRN), a web-based network linking K-12 science teachers with scientists for mentorship
- The Section's Younger Chemists Committee (YCC) held its first event and focused on careers
- The Section continued its planning to host SERMACS 2011
- The Section participated in High School Chemistry Club activities
- The Section sent recognition certificates and congratulations to ten members for having been ACS members for 60 years and to twelve members for 50 years of membership in the ACS
- The Section's Distinguished Service Award recipient was Jeffrey I. Seeman (Saddle Point Frontiers) and the Outstanding Innovation Award recipient was Kai O. Donsbach (Boehringer Ingelheim)
- Section meeting notices continued to be available via The Bulletin; website, and e-mail
- The Section recognized its Distinguished High School Chemistry Teacher Liza Schmieder (Prince George High School) and Distinguished Middle School Science Teacher Dianne Nolan (Ni River Middle School, Spotsylvania County)
- The Section recognized its Officers, the Executive Committee, and other volunteers for all their help and hard work in 2007

Well, we were quite busy and very proud of our accomplishments. I will most definitely detail these events in the 2007 Annual Report for submission to the ACS. As always, contact information and Section activities may be found in The Bulletin and at our website: <http://membership.acs.org/V/VA/>

Thank you for allowing me to serve.

Sincerely...Will H. Lewis, Jr., Ph.D., Past-Chair of the Virginia Section

## **REPORT ON THE NOVEMBER SECTION MEETING**

On November 9, 2007, about 40 persons heard Dr. Jack Breazeale of the College of Charleston speak on "Lab Inspections: You Might Be Surprised By What You Find!" The Virginia Section meeting was held in the Jepson Science Center at the University of Mary Washington in Fredericksburg. Dr. Breazeale was introduced by Ms. Jennifer Yox, a senior chemistry major at Mary Washington and honor student who is conducting research with Dr. Janet Asper. Thanks to Dr. Roy Gratz and his colleagues and students at the University of Mary Washington for organizing and hosting this excellent meeting.

**CHAIR:** **Mr. Charles E. (Trey) Gregory III** (804) 504-8840  
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**CHAIR-ELECT:** **Mr. Kenneth Chapman** (804) 448-4852  
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Philip Morris RD&E FAX: (804) 274-4778  
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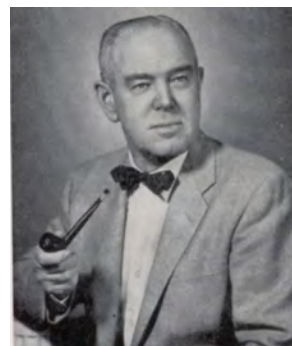
**SECRETARY:** **Dr. Stephanie Mabry** (804) 639-6991  
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Chesterfield, VA 23832 verizon.net

**TREASURER:** **Dr. Brian Moores** (804) 227-3149  
13033 Little Bridge Drive FAX: (804) 227-3149  
Doswell, VA 23047 e-mail: moores1129 @ cs.com

The term for each of the officers listed above is one year. Dr. Ann Sullivan was elected to a three-year term as a Councilor; Mr. Charles (Eddie) Thomas was elected to a three-year term as Alternate Councilor; and Dr. Philip Burks was re-elected as Trustee for another three-year term. The new officers began their terms on January 1, 2008.

## **QUESTIONS FROM THE PAST**

**This question was asked in the December Bulletin: One of the best** attended meetings of the Virginia Section was held on June 6, 1958 when 221 persons were present for the annual Awards Meeting. Mrs. Brent Remsberg received the Distinguished Service Award for Outstanding Contributions in Science Education. The Distinguished Service Award for Outstanding Contributions in the Advancement of the Chemical Profession was presented to a native of Newfoundland who had served as Chairman of the Virginia Section and as President of the Virginia Academy of Science. At the time he received the Award, he was Chair of the Department of Chemistry at the College of William and Mary. **Who was the recipient of the 1958 Distinguished Service Award? Dr. William B. Guy** received the Distinguished Service Award in 1958. The Award was presented on June 16, 1958 at the Officers Club of Virginia in Richmond. Dinner cost \$3.00.



New question: **Dr. Janos Fendler**, distinguished professor of chemistry at Clarkson University, died on July 12, 2007, at the age of 69. Dr. Fendler was a native of Hungary and held a Ph.D. in physical organic chemistry from the University of London. In 1983 he received the ACS Award in Colloid & Surface Chemistry in 1983. Dr. Fendler gave a talk to the Virginia Section on "Membrane Mimetic Chemistry." **When and where was that Section meeting held?**



## ***THE SCIENCE MUSEUM OF VIRGINIA***

The Science Museum of Virginia (in Richmond) has, since 1977, occupied the building that opened in 1919 as a railroad station for use by several railroads. The current mission of the SMV is:

- to deepen our understanding of man and his environment;
- to promote a knowledge of the scientific method and thus encourage objectivity in the everyday affairs of man;
- to engage in instruction and research in the sciences in order to educate citizens of all ages in the concepts and principles of science and how these concepts and principles form the foundation upon which rests our technological society and its economy;
- to use, subject to the approval of the accredited educational facilities concerned, Museum personnel in educational programs;
- to motivate and stimulate young people to seek careers in science;
- to encourage an understanding of the history of scientific endeavor;
- to provide special facilities and collections for the study of Virginia's natural resources; and,
- to foster a love of nature and a concern for its preservation.

The Science Museum features a great variety of continuing exhibits as well as special exhibitions and programs. Live theater is presented in the Carpenter Science Theater, the planetarium shows highlight many night sky events, and outstanding films are shown on the IMAX DOME. The Museum sponsors many programs for all age groups. For more information, including a schedule of events, check out the Museum's website: [www.smv.org](http://www.smv.org).

## ***VOLUNTEERING AT THE SCIENCE MUSEUM***

Share the excitement of science and technology! Join the volunteer team and help bring the Science Museum of Virginia and the Virginia Aviation Museum to life! High school students to retirees share their time and talents in numerous positions throughout the museums. Volunteers are committed to personal growth and a love of learning. Additional benefits enjoyed include:

- Free Family/Dual Membership for volunteers who give a minimum of 100 hours per year;
- Invitations to museum special events and adult educational programs;
- Service recognition at annual volunteer recognition awards dinner and presentation;
- Letter of reference.

To become a part of this outstanding group of volunteers, call Beth Voelkel at (804) 864-1511. Adult and student volunteer applications are available on the Museum website: [www.smv.org](http://www.smv.org).



# SCIENCE EDUCATION AT THE MUSEUM

The Science Museum of Virginia is a great place to learn. Go to the Science Museum website, [www.smv.org](http://www.smv.org) to find out more about these educational programs and workshops:



## **Astronomy**

Astronomy resources

## **Camp In**

When the sun sets, the fun rises at Camp In! The hugely popular Camp In returns for its 22<sup>nd</sup> year with new activities sure to excite and entertain your group!

## **Dig Archaeology**

Presented by the Richmond Society of the Archaeological Institute of America.

## **Exhibits Plus**

Enliven your group's visit with Exhibits Plus. These activities are presented by gallery educators on a wide variety of topics. Each Exhibits Plus demonstration is 30 minutes in length. Exhibits Plus is available by reservation only, and they are performed exclusively for your group.

## **Lunch Break Science**

Pack a lunch and join us for the newest in our series of life-long learning programs.

## **Outreach Education**

The Science Museum of Virginia brings science fun to schools, libraries, day-care centers, fairs and parks throughout Virginia.

## **Richmond Bioethics Consortium**

Medicine, Media, and Morality: Does the Media Impact Your Health Care Decisions and Treatment? Free and open to the public.

## **School Trips**

Find out everything the Science Museum of Virginia can do to make your field trip fun, memorable and worthwhile.

## **Science Saturdays**

The Science Museum is the place to be on Saturday afternoons! You'll have a blast with hands-on activities, science demos, interactive exhibits and more!

## **Science Spotlight**

First- through sixth-grade students enjoy a hands-on workshop focused on a science theme. These 45-minute activities add exciting, structured learning to your visit.

## **Teacher Resources**

Professional development, education materials, classroom activities and special programs for teachers.

## **Wonderplace**

Exclusively for scientists age 4 - grade 2! Climb aboard the Wonderplace train car for a journey into science exploration and discovery.

Help out the Virginia Section by serving on one of our committees: Awards, Chemical Education, Chemical Technicians, Chemistry Olympiad, Entertainment, Government Relations, Hospitality, Industrial Relations, Media/Public Relations, Membership, Minority Affairs, National Chemistry Week, Publications, Safety, SERMACS 2011, Student Affiliates, and Younger Chemists. To get more information, volunteer your services, or make suggestions, contact Mr. Charles E. (Trey) Gregory III at (804) 504-8840 or [cgregory@bichemicals.com](mailto:cgregory@bichemicals.com). Suggestions for new committees or committee activities are welcome.

## **2008 CHEMISTRY OLYMPIAD**

The Virginia Section will host the 2008 Chemistry Olympiad for all high school chemistry teachers and students who are interested in participating. The Local Section competition will involve first and second year chemistry examinations given during March. The students who do well in the Local competition will be nominated to compete in the National competition in April. These students will compete for 20 positions in the study camp at the US Air Force Academy in Colorado. The five member International Chemistry Olympiad (IChO) team will be chosen from these 20 students to compete in the IChO. For more information and the application forms, either hard copy or on-line, go to the Virginia Section Chemistry Olympiad site at <http://membership.acs.org/VVA/olympiad/default.htm>. Dr. Ann Sullivan is the coordinator for the Chemistry Olympiad in the Virginia Section.

## **BOEHRINGER INGELHEIM SPONSORS TEACHER AWARDS**

The Virginia Section's 2008 awards to outstanding teachers are sponsored by Boehringer Ingelheim. The Section gratefully acknowledges their financial support. Dr. Kai O. Donsbach of Boehringer Ingelheim Chemicals received an Outstanding Innovation Award from the Virginia Section in September, 2007. The BI Chemicals CAPIC Synthesis Team received the Section's Industrial Innovation Award in 2002. BI Chemicals has a large production facility in Petersburg and other facilities in both Petersburg and Richmond. Dr. Joseph Pompano, Senior Analytical Chemist at Boehringer Ingelheim Chemicals in Petersburg, is a Past Chair of the Virginia Section and Mr. Charles (Trey) Gregory, a Chemist in the Quality Control Division at BI Chemicals, is the Chair of the Section for 2008.

## **CAN YOU IDENTIFY THIS PERSON?**

The photograph is from April 2003 when the subject was chair of the Virginia Section. He is holding an award that the national ACS presented to the Section for the hospitality provided to ACS tour speakers. The mystery person received a B.S. degree from Emory and Henry and a Ph.D. from West Virginia University. He worked at the DuPont Company before entering the teaching profession. His career included 27 years on the chemistry faculty at Longwood College (now Longwood University). He retired from Longwood in 2001; he and his wife Rebecca live in Farmville.



The persons shown in the December 2007 Bulletin were (left-to-right) Frank Kizer (Virginia Section Chair), Bill Welstead (Vice-Chair), Byron Price (Treasurer), Mrs. Lewis Flinn (representing the Junior League), Dr. Paul Knappenberger, Jr. (Director of the Science Museum of Virginia), and Bill Trout (Chair of the Centennial/Bicentennial Committee).



## REPORT ON THE DECEMBER SECTION MEETING

On December 7, over 80 persons were enlightened and entertained by **Dr. Marilyn Miller** who spoke on “CSI and Forensic Science: Real vs Reel.” Dr. Miller contrasted the real world of forensic science to that portrayed on popular television shows. The meeting was held at John Tyler Community College in Chester. **Mr. James O’Brien**, Co-President of the Chemistry Club at John Tyler, introduced Dr. Miller. The meeting also featured a number of special awards. **Dr. Will Lewis**, Chair of the Virginia Section, presented the Distinguished High School Chemistry Teacher Award to **Ms. Liza Schmieder**, who teaches Chemistry at Prince George High School. Ms. Schmieder was introduced by **Ms. Teri Hedgepeth**, Career and Technical Education Coordinator for Prince George County Schools. The Distinguished Middle School Science Teacher Award was presented to **Ms. Dianne Nolan**, who teaches science at Ni River Middle School in Spotsylvania County. She was introduced by **Ms. Jean Young**, Science Coordinator for Spotsylvania County. Dr. Will Lewis then presented several “Chair’s Awards.” These were given to **Jim Beck**, Editor of the Section’s Bulletin; **Dr. Kristine Smetana**, Coordinator of the Section’s activities for National Chemistry Week and Earth Day; **Dr. Ann Sullivan**, Section Councilor, Chemistry Olympiad Coordinator, and Section Webmaster; **Ms. Rhonda Phillips**, teacher at Mary Munford Elementary School in Richmond; and to the John Tyler Community College Chemistry Club, represented by **Mr. James O’Brien**, **Mr. Brandon Davis**, and **Ms. Carolyn Carico**. Dr. Ann Sullivan, Chemistry Olympiad Coordinator, presented an award to **Mr. Marvin Curry**, Chemistry Teacher at Albemarle High School, recognizing his students’ achievement on the Olympiad examinations. Dr. Kristine Smetana recognized **Dr. Lidia Vallarino**, Professor of Chemistry at Virginia Commonwealth University, for her years of dedicated service to the Virginia Section and to chemical education. Dr. Lewis acknowledged the members of the Executive Committee for the Virginia Section and thanked them for their work during his tenure as chair of the Section. The Section extends special thanks to Dr. Kristine Smetana and the members of the John Tyler Chemistry Club for organizing this outstanding meeting.



*Left - to - right:*

*Ms. Dianne Nolan, Distinguished Middle School Science Teacher Award winner*

*Dr. Will H. Lewis, Jr., Chair of the Virginia Section for 2007*

*Ms. Liza Schmieder, Distinguished High School Chemistry Teacher Award winner*

*Dr. Will Lewis, Section Chair, gives an engraved Jefferson Cup to Dr. Marilyn Miller, speaker at the December 7 meeting of the Virginia Section*



## ***THE BULLETIN***

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