



The Bulletin
of the
Virginia Section
AMERICAN CHEMICAL SOCIETY

JANUARY MEETING NOTICE

SCIENCE MUSEUM OF VIRGINIA

Richmond, Virginia

Friday, January 23, 2009

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 Tuesday, January 20** by calling Jim Beck at (804) 733-5286 or by e-mail to yezdi.b.pithawalla @ altria.com

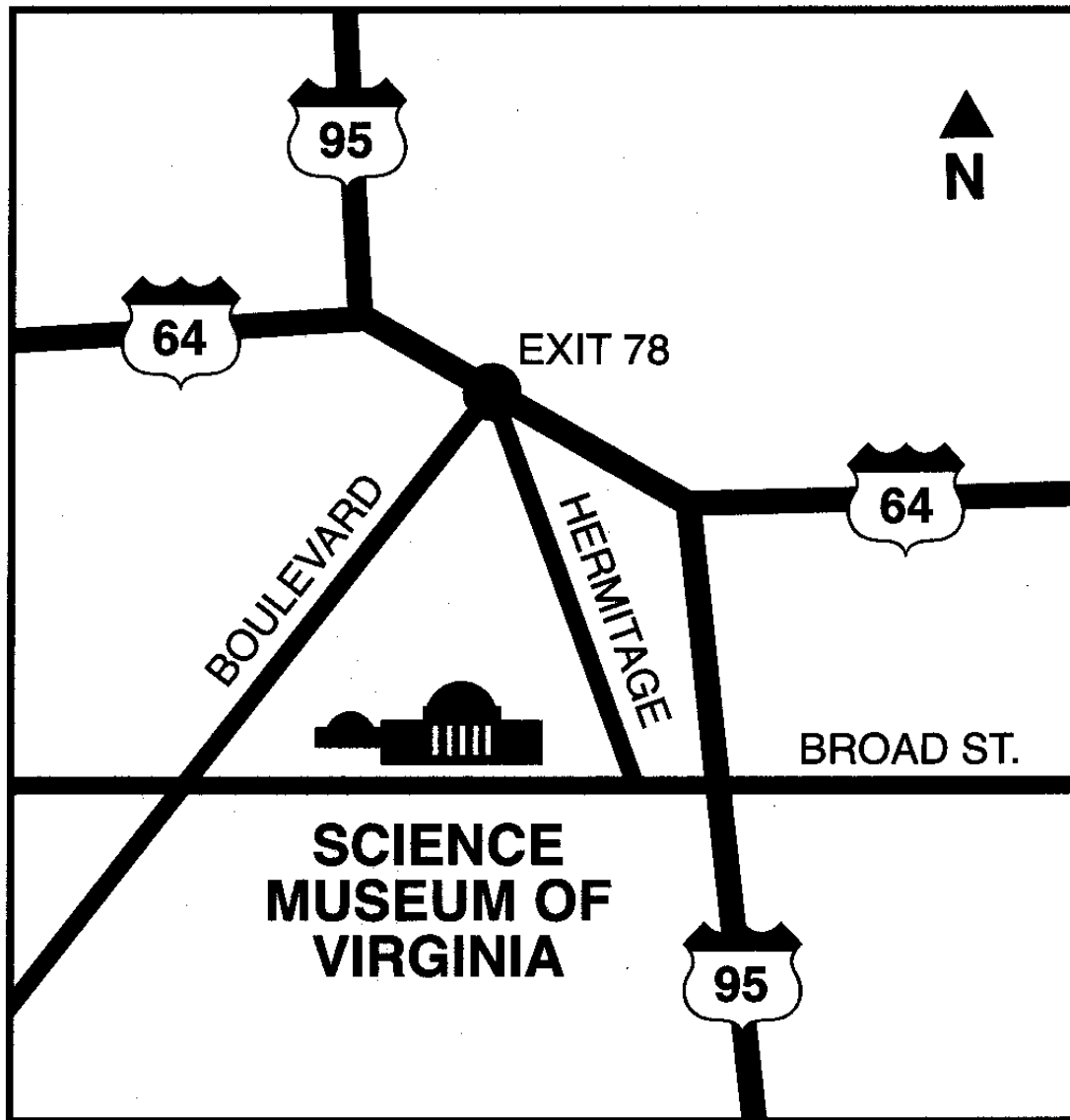
HOST: Dr. Yezdi Pithawalla, (804) 274-4587; yezdi.b.pithawalla @ altria.com

SPEAKER: **Dr. Yorke E. Rhodes, New York University**

TOPIC: **“Planetary Chemistry: Differences in the Solar System Atmospheres”**

JANUARY 2009

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
		<i>reservations</i>			<i>meeting</i>	
25	26	27	28	29	30	31

MAP AND DIRECTIONS

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 6, 2009**
LOCATION: University of Richmond
Richmond, VA
HOST: Dr. William Myers
PHONE: (804) 484-1548
E-MAIL: wmyers @ richmond.edu
SPEAKER: **Dr. Timothy M. Swager**
TOPIC: "Polymer Electronics for
Chemical and Biological
Sensors"
(POWELL LECTURESHIP)

DATE: **March, 2009**
LOCATION: TBA
HOST: TBA
PHONE: TBA
E-MAIL: TBA
SPEAKER: TBA
TOPIC: TBA

DATE: **April 24, 2009**
LOCATION: University of Virginia
Charlottesville, VA
HOST: Dr. James Demas
PHONE: (434) 924-3343
E-MAIL: demas @ virginia.edu
SPEAKER: **Dr. John Yates**
TOPIC: "Reactions of Single Molecules on Surfaces"

EXECUTIVE COMMITTEE MEETING

The Virginia Section Executive Committee will meet at 9:00 a.m. on Saturday, January 24 at the Downtown Campus of J. Sargeant Reynolds Community College, 7th and Leigh Streets in Richmond. The meeting will be in Room 662. 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 Section Chair, Mr. Kenneth Chapman, (804) 448-4852; kmc97 @ aol.com. The meeting is open—members of the Section are invited to attend.

THE CHAIR'S CORNER

Hello, Virginia Section Members,

As an unsettled new year opens, the Section has both new and returning officers. I would not be serving this year as Chair if I had not encountered an exceptionally knowledgeable and supportive group of officers and members when I moved into the Section's territory a few years ago. The Virginia Section is the most impressive of the many sections with which I worked as an ACS staff member. Much of the Section's potential is already being exploited, but we need to search continually for ways to use that potential more effectively.



Please welcome and assist the newcomers to the officer corps: Karen Carter (Secretary) and Brad Norwood (Treasurer); and thanks to our experienced returnees: Yezdi Pithawalla (to Chair-Elect from Vice-Chair) and Stephanie Mabry (to Vice-Chair from Secretary). Our Councilors continue to serve admirably.

An outstanding feature of the Section is its strong industrial representation among the officers and the Executive Committee. However, we need more vigor from the educational community to provide the balance that makes the ACS such a powerhouse on behalf of science and science education. Whatever your role in chemistry, the Section can help you only if it is aware of your problems/concerns, can identify effective remedies through open debate, and then implement reasonable remedies. That requires your input and involvement – as volunteers. You are invited to attend your Executive Committee's meeting at the J. S. Reynolds Community College downtown campus on January 24. And we have other opportunities for you if you cannot attend that meeting.

During this year, I intend to support all our current efforts outreaching to the general community, providing recognition for outstanding service, serving chemists, and presenting excellent monthly meetings. Unexpectedly finding myself now a high school science teacher, I would like to find ways to assist high school chemistry teachers more directly.

Ken Chapman
2009 Virginia Section Chair

TREY GREGORY RECEIVES AWARD FROM ACS

Congratulations to Trey Gregory, Past Chair of the Virginia Section, who has received a Leadership Development Award from the Younger Chemists Committee of the American Chemical Society. This award will enable Trey to participate in the YCC Leadership Development Workshop that will be held in January in Fort Worth, Texas, in conjunction with the ACS Leadership Institute. There were over 70 applications for the 15 awards. All travel and conference expenses will be paid by the ACS.



In his letter of notification to Trey, Mick Hurrey, Chair of the Younger Chemists Committee of the ACS, said:

“This YCC program recognizes emerging leaders in the profession and helps them prepare for the leadership opportunities at volunteer organizations, such as ACS, and in their professional career. YCC recognizes your past contributions and your leadership qualities. The committee also believes that you have tremendous potential to be a successful leader both within your profession as well as the ACS.”

REPORT ON THE NOVEMBER SECTION MEETING

On November 20, 2008, an overflow crowd of over 100 persons was entertained and enlightened by Dr. Marvin Lang of the University of Wisconsin at Stevens Point. The Virginia Section meeting was held in the Jepson Science Center at the University of Mary Washington in Fredericksburg. Dr. Lang was introduced by Merida Marston, President of the ACS Student Affiliate Chapter at UMW. The talk on "Elements of Leadership" featured numerous illustrative and exciting demonstrations. Dr. Lang was accompanied by his wife Louise. The Section was pleased to welcome a contingent of high school students from Stafford High. Thanks to Dr. Roy Gratz and his colleagues and students at the University of Mary Washington for organizing and hosting this excellent meeting.



"be careful when you share..."



WOW – look at that!



the clean-up crew (Louise Lang and Ken Chapman)

SECTION HOSTS SCIENCE CAFÉ



On November 22, the Virginia Section held its first Science Café at the Tobacco Company Restaurant in Richmond. Nine persons participated in a lively discussion of alternative energy sources and energy conservation. The varied opinions reflected the diverse backgrounds and experiences of the group. There was general agreement on the nature of the energy problems that we face and everyone recognized that there are no easy solutions. The group also agreed on the delicious nature of the lunch served at The Tobacco Company. Trish Lauck of Boehringer Ingelheim organized the Science Café.

2009 CHEMISTRY OLYMPIAD

The Virginia Section will host the 2009 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.

VIRGINIA SECTION OFFICERS FOR 2009

CHAIR:	Mr. Kenneth Chapman Cardinal Workforce Developers 16080 Countyline Church Road Ruther Glen, VA 22546	(804) 448-4852 FAX: (804) 448-9323 kmc97 @ aol.com
CHAIR-ELECT:	Dr. Yezdi B. Pithawalla Altria Client Services 4203 Commerce Road Richmond, VA 23284	(804) 274-4587 FAX: (804) 274-4778 yezdi.b.pithawalla @ altria.com
VICE CHAIR:	Dr. Stephanie Mabry 9407 Orchid Terrace Chesterfield, VA 23832	(804) 639-6991 stephanie.mabry @ verizon.net
SECRETARY:	Dr. Karen Carter Commonwealth Biotechnologies, Inc. 601 Biotech Drive Richmond, VA 23235	(804) 521-7369 kcarter @ cbi-biotech.com
TREASURER:	Dr. Bradley K. Norwood Arista Laboratories 1941 Reymet Road Richmond, VA 23237	(804) 271-5572 ext. 307 brad.norwood @ aristalabs.com

The term for each of the officers listed above is one year. Dr. R. Gerald Bass was elected to a three-year term as a Councilor; Dr. Sheryl Baldwin was elected to a three-year term as Alternate Councilor; and Dr. James Demas was re-elected as Trustee for another three-year term. The new officers began their terms on January 1, 2009.

QUESTIONS FROM THE PAST

This question was asked in the December Bulletin: When the Section changed to a calendar-year term for its officers, it meant that the first set of officers under the new basis actually served 18-month terms of office (from July of one year through December of the next). At that time, the Section had just over 600 members (membership is now over 1400) and the Section Chair was Clinton W. Baber. **What years are we talking about – 1939-40; 1953-54; 1962-63; or 1977-78?** Can you name any other Section officers who served the year-and-a-half terms? The extended terms ran from July, 1953 through December, 1954. Clinton W. Baber was the Chairman of the Section, William E. Trout, Jr. was Chairman-Elect, Randolph N. Gladding was Vice-Chairman, C.J. Coli, Jr. was Secretary, and Everett C. Cogbill was Treasurer.

New question: The Virginia Section has been presenting awards to distinguished high school chemistry teachers for sixty years. **Who was the recipient of the first teaching award, presented in 1948?** Bonus question: **When did the Section begin recognizing middle school science teachers?**

**WORDS OF WISDOM FOR JANUARY : “Experience Is
The Name Everyone Gives To Mistakes”**

COMMENTS FROM THE PAST CHAIR

I want to first thank everyone for coming to our meetings, volunteering to help support our many activities, and for supporting me. 2008 was great!

We held many events:

- Chemists Celebrate Earth Day
- National Chemistry Week
- Chemistry Olympiad
- Monthly Meetings
- Science Café

We recognized many people:

- Distinguished High School Chemistry Teacher Award - Leslie Kovach
- Distinguished Middle School Science Teacher Award - Mary Younger
- Distinguished Service Award - Dr. Ralph Allen
- Industrial Leadership Award - Dr. Jane Lewis

I look forward to continuing the tradition of the ACS as Past Chair and being more active in other Committees such as the 2011 SERMACS Planning Committee and the Younger Chemist Committee, and to upholding our newly-created Science Café event.

I learned a lot this year on the job and I would like to say thanks to all of my fellows Executive Committee members for doing their jobs diligently, to Jim Beck for keeping me in line, and to Dr. Will Lewis for mentoring me.

Thank you and I look forward to seeing you in the near future.

Trey Gregory
Past Chair
Virginia Section ACS

LONGWOOD STUDENT NAMED ACS SCHOLAR

Longwood University junior **Jeramie Stamps** is one of 121 college students from across the country selected as American Chemical Society Scholars. The ACS Scholar program provides support for minority students who plan to pursue careers in chemistry. Mr. Stamps, from Ringgold in Pittsylvania County, is a chemistry major at Longwood who plans to pursue a career in forensic science. He will receive \$5,000 for the 2008–09 academic year and may be eligible for a renewal grant. He transferred to Longwood University in 2008 from Danville Community College. Jeramie is a member of Alpha Chi Sigma professional chemistry fraternity and of the LU Chemistry Club. He learned about the ACS Scholar program from two of his chemistry professors— Dr. Paul Fox and Dr. Melissa Rhoten.





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.

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.

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 to find out more about these educational programs and workshops:



Astronomy

Star charts, sky happenings, astronomy resources, and more.

Camp In

When the sun sets, the fun rises at Camp In! Activities sure to excite and entertain your group!

Demonstrations

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

Dig Archaeology

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

Junior Solar Sprint

Middle school students working in teams design and build a vehicle that will complete a race in the shortest time possible using energy from the sun.

Kids Extra

Science activities for elementary school-aged children. In the *Richmond Times-Dispatch* on the first Tuesday of each month.

Labs

First- through sixth-grade students enjoy a hands-on experience focused on a science theme. These activities add exciting, structured learning to your group's visit. By reservation only.

Lunch Break Science

Pack a lunch and join us on Wednesdays for 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.

Science Explorers

Science Explorers Summer Camp will be back in Summer 2009.

Science Saturdays

The Science Museum is the place to be on Saturday afternoons! You'll have a blast with hands-on activities, cool demonstrations, interactive exhibits and more! Saturdays noon till 4:00 p.m.

School Partnership Programs

Programs brought to your school during regular school hours or after school.

School Trips

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

Teacher Resources

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

Wonderplace Lab

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

BOEHRINGER INGELHEIM SPONSORS TEACHER AWARDS

The Virginia Section's 2008 awards to outstanding teachers were sponsored by Boehringer Ingelheim. The Section gratefully acknowledges their financial support. 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, was the Chair of the Section for 2008. 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.

CAN YOU IDENTIFY THIS PERSON?



The photograph is from 1942 when the subject graduated from East Carolina Teachers College (now East Carolina University). The Department of Chemistry in The Thomas Harriott College of Arts and Sciences at East Carolina University recently honored him as its oldest alumnus and scholarship supporter. He and his wife Helen attended the homecoming festivities at ECU where he was presented with a certificate of appreciation and a plaque for his contributions to the chemistry department. He also received an autographed ECU game ball from the Pirates Head Coach Skip Holtz. At the ceremony, he said "The education I received from East Carolina Teachers College some 66 years ago, along with the love and support of my wife, have enabled me to have a satisfying and successful career as a high school chemistry and physics teacher as well as supervisor of science education for the state of Virginia."

The person shown in the December 2008 Bulletin is Dr. Glen Kellogg, Associate Professor of Medicinal Chemistry at Virginia Commonwealth University. He and Dr. Donald J. Abraham founded the company eduSoft, LC in 1993. They received the Section's Outstanding Innovation Award in 2001.



NCW VOLUNTEERS

The Virginia Section's celebration of National Chemistry Week 2008 featured a day of exciting demonstrations and hands-on science activities at the Science Museum of Virginia on Saturday, October 25. The great success of this outreach activity would not have been possible without the hard work and enthusiastic assistance of many volunteers. The Virginia Section thanks everyone who contributed to NCW 2008.

From **John Tyler Community College**: Kristine Smetana, Jocelyn Strode, Tecumseh Bey, Florence Moneta, Konnie Bryant-Duong, Beth Awesome, Hanan Magsher, Jennifer Lewis, Edward Adusei, Indira Boodrum, Lydon Van Den Borg, Anh Nguyen, Elvetta Stith, Anna Marston, Lauren Alleyne, Dickie Alleyne, Renee Estep, Maria Seranno, Shannon Howell, Charles Stacey, Kevin Gainey, Andrew Kriz, Methal Amin

From **J. Sargeant Reynolds Community College**: Ann Sullivan, Fetema Alam, Amanda Stewart, Christopher Tuck, Sheila Rosanelli, Emely Castanos, Menyeshu Hassan, Valerie Brooks, Alex Dimen, William Bowen, Morgan Campbell, Rene Carbone, Nicole Satterfield, Jennifer Ware, Smita Joshi, Carrie Miller, Pryce Mallory, Thomas White, Adil Suleman

From **Thomas Dale High School**: Felix E. Torres, Khayrat Amin, Anh Nguyen

From the **Appomattox Regional Governor's School**: Allen Black, Leno Bradby

From **Hopewell High School**: Timothy Saywack

From **Longwood University**: Megan Simms, Lyndsay Betts, Tricia Clary, Sarah Blevins

From the **Virginia Section**: Jim Beck, Will Lewis, R. G. Bass, David Anderson

Cub Scouts: **Pack 440** - Zack Gallagher, Alexander Smetana, Ann Rowlay; **Pack 443** - Reed Richardson, Kyle Richardson; **Pack 531** - Sean McAndrew, Cole McAndrew

Other: Benjamin Anderson

Special thanks to **Dr. Kristine Smetana**, the NCW Coordinator for the Virginia Section and to **Dr. Ann Sullivan** for their outstanding efforts on NCW 2008.

THE BULLETIN

Published eight times a year by the
American Chemical Society
Virginia Section

Science Museum of Virginia
2500 West Broad Street
Richmond, VA 23220
<http://membership.acs.org/V/VA/>

NON-PROFIT ORGN.

**U.S. POSTAGE
PAID**

**Richmond, Virginia
Permit No. 1231**

OFFICERS OF THE VIRGINIA SECTION OF THE ACS



Ken Chapman

Chair - Mr. Kenneth Chapman (804) 448-4852

Chair-Elect - Dr. Yezdi Pithawalla (804) 274-4587
Vice Chair - Dr. Stephanie Mabry (804) 639-6991
Secretary - Dr. Karen Carter (804) 521-7369
Treasurer - Dr. Bradley Norwood (804) 271-5572 ext. 307
Bulletin Editor - Dr. James Beck (804) 733-5286
Bulletin Publisher - Dr. Will Lewis (804) 274-5869