



The Bulletin
of the
Virginia Section
AMERICAN CHEMICAL SOCIETY

SUMMER 2014 ISSUE

VIRGINIA SECTION MEETING
FRIDAY, SEPTEMBER 19, 2014
VIRGINIA COMMONWEALTH UNIVERSITY
RICHMOND, VIRGINIA

Dr. Tracy Hamilton, University of Alabama at Birmingham
"Zymurgy: The Art and Science of Brewing Beer"

Presentation of Teacher Awards

The September meeting will feature the presentation of the Section's annual awards to outstanding teachers. Here are the 2014 recipients.



The Franklin D. Kizer Distinguished High School Chemistry Teacher Award:

Heather Warkentien

Osborn High School, Manassas City

The Distinguished Middle School Science Teacher Award:

Nate Shotwell

Kate Collins Middle School, Waynesboro



The Distinguished Elementary School Science Teacher Award:

Rita Larson

Martin Luther King Jr. Elementary School, Prince William County

***** VIRGINIA SECTION NEWS *******THE CHAIR'S CORNER**

It was another great year for the section in the ChemLuminary competition. The Virginia Section is a finalist in five categories:

1. Creative & Innovative Use of the *Chemists Celebrate Earth Day* Theme
2. Most Creative NCW Celebration Using the Yearly Theme
3. Outstanding Community Involvement in *Chemists Celebrate Earth Day*
4. Most Innovative New Activity or Program
5. Outstanding Performance by a Local Section (Medium Large Size)



This is becoming a habit for the section and is the result of a lot of hard work from the section members involved in community outreach. Kristine Smetana deserves special thanks for all the effort she put into these activities. Hopefully, it will be another great night for the section when the awards are announced at the ACS meeting in San Francisco. The Section benefits greatly from the heroic efforts of a few individuals. As we move towards the new academic year, I encourage Section members to seek opportunities to help with continuing events or create new ones. We need to broaden the base of our active members in order to continue these very successful programs.

In addition, Linette Watkins was named an ACS Fellow this summer. Linette is the new Head of the Chemistry Department at James Madison University. She was previously at Texas State University and was nominated by the Central Texas Section. She now serves as a Councilor for the Virginia Section. Congratulations, Linette!

...Scott Gronert, 2014 Section Chair, sgronert@vcu.edu

SECTION MEETINGS - FALL, 2014

September 19, 2014 - Virginia Commonwealth University, Richmond
PRESENTATION OF TEACHING AWARDS

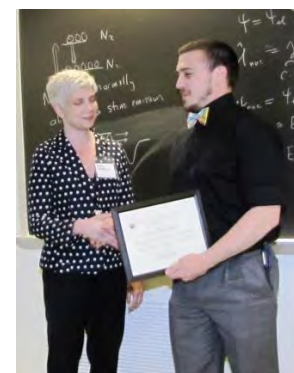
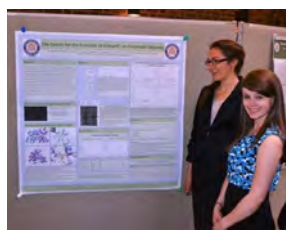
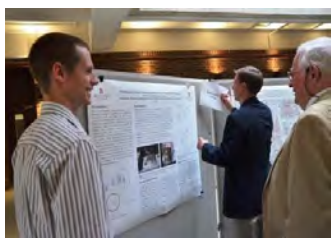
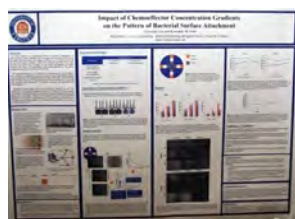
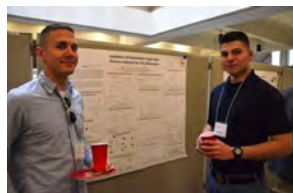
October 24, 2014 - James Madison University, Harrisonburg

November 3, 2013 (tentative date) - University of Mary Washington, Fredericksburg

NOTE: There will not be a Section meeting in December, 2014.

REPORT ON THE APRIL MEETING OF THE VIRGINIA SECTION

The April 2014 meeting of the Virginia Section was held on April 11 at the University of Virginia in Charlottesville; Dr. Todd Koch, Section Chair-Elect, presided. Dr. David Hudson, Associate Vice President for Research at the University of Virginia, spoke on “Responsible Conduct of Research—Good Citizenship Rules Apply.” He was introduced by Jason Liao, a senior chemistry major at the University of Virginia. About 50 persons attended Dr. Hudson’s very interesting and relevant presentation. At the Poster Session, 35 papers were presented by students from eleven colleges and universities (information on the papers is given below). This marked the 28th consecutive year of the Poster Session that highlights undergraduate student research. Twelve outstanding students at colleges and universities within the Virginia Section were recognized as part of the evening’s program (see list below). Special thanks to Jim Demas and his colleagues at the University of Virginia for organizing this successful meeting.



CORRECTIONS TO EXECUTIVE COMMITTEE LIST

In the April issue of the Bulletin, the name of **Dr. Jerry Bass** was left off the list of at-large members of the 2014 Executive Committee for the Virginia Section. Our apologies to Jerry. He retired this year as a Section Councilor, but will continue as a valued member of the Executive Committee. Here is the correct information to be added to the “Members-at-Large” section of the list:

Dr. R. Gerald Bass
204 Bishop Lane
Lynchburg, VA 24503
(434) 386-3326
robertg.bass@gmail.com

Also, the email address for councilor **Linette Watkins** was incorrect. It should be watkinlm@jmu.edu.

OUTSTANDING CHEMISTRY GRADUATES

At the April meeting, the Virginia Section recognized graduating seniors from colleges and universities within the Section. Schools in the Virginia Section were invited to nominate senior chemistry majors for this honor. Each student received a Certificate of Recognition and a copy of Sam Kean's book, *The Disappearing Spoon*. The outstanding students for the year 2014:

| <u>College/University</u> | <u>Student</u> |
|----------------------------------|-----------------|
| Bridgewater College | Scott Griffin |
| College of William & Mary | Ashley Fidler |
| Hampden-Sydney College | Meade Edmunds |
| James Madison University | Matt Dent |
| Longwood University | Sarah Ganrude |
| Mary Baldwin College | Selma Elsarrag |
| Randolph-Macon College | Fred Parks |
| University of Mary Washington | Eric Johnson |
| University of Richmond | Jeff Schriber |
| University of Virginia | Jason Liao |
| Virginia Commonwealth University | Joshua Driskill |
| Virginia Union University | Billy Bello |

Conference on Small Molecule Science (CoSMoS)

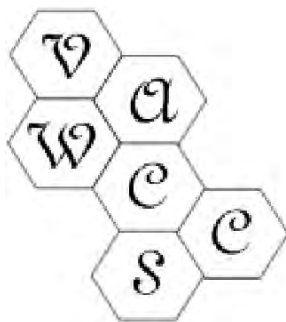
**August 11-13, 2014
Williamsburg Lodge
Williamsburg, Virginia**

CoSMoS is an annual conference where scientists and practitioners meet to exchange information on analytical techniques related to small molecule science. The conference is a great venue for networking and discussion on the practical uses of emerging technologies.

<http://www.cosmoscience.org>

Founding Sponsors: Waters, Agilent, Thermo Fisher Scientific,
ACS Department of Professional Education

WCC SUMMER NETWORKING EVENT



The ACS Women's Chemists Committee hosted a wine tasting and a presentation on wine making at Woodland Vineyards in Midlothian, Virginia on Friday, June 6, 2014. Twenty-four members and guests attended the event. The presentation was given by Melissa Jeltema, Ph.D., Food Science, who is the wine artisan and co-owner of the winery with her husband, Eric Gretenhart. It was a beautiful evening, and everyone attending enjoyed the food, wine, and fellowship. The WCC would like to thank Ann Sullivan for organizing this event.



VIRGINIA ACADEMY OF SCIENCE FALL UNDERGRADUATE RESEARCH MEETING

Saturday, October 18, 2014
9:00 am - 3:00 pm

VIRGINIA STATE UNIVERSITY
Petersburg, Virginia

more information: www.vacadsci.org

NEW BOOK BY SAM KEAN



Author Sam Kean's new book, *The Tale of the Dueling Neurosurgeons*, is an omnibus of the most dramatic and fascinating stories in neuroscience. He says "*Dueling Neurosurgeons* can be enjoyed by all. There's enough oddball history and strange science for everyone!" Kean's first two books, both best sellers, were *The Disappearing Spoon* and *The Violinist's Thumb*. He was the speaker for the Virginia Section meeting in September, 2013 and in August, 2014, he will be speaking twice at the ACS National Meeting in San Francisco.



LAWRENCE J. WINTERS 1930 - 2014



Lawrence Winters died on June 1, 2014 at the age of 83. Larry was Chairman of the Department of Chemistry at Virginia Commonwealth University for over 20 years, retiring in 1996. Born in Chicago to Russian immigrant parents, he attended Marquette University on a football scholarship and earned a B.S. in chemistry from Washington University, then a Ph.D. in organic chemistry from the University of Kansas. He was an associate professor of chemistry at Drexel University before joining the chemistry faculty at VCU. In 1972, he succeeded Dr. Mary Kapp as chair of the department. The Ph.D. program at VCU was developed under his leadership. He was part of a research team that synthesized a precursor to the herbicide Paraquat.

Jerry Bass was a member of the chemistry faculty at VCU during Dr. Winters tenure as chairman. Jerry recalls that Larry was very supportive of faculty and student involvement in the ACS, providing travel funds and offering encouragement to persons who participated in regional and national meetings. Jerry remembers Larry as being “very wise and considerate and a good friend to me.”

Survivors include Larry’s wife Honora Ann Murphy, two sons, a daughter, and nine grandchildren. Memorial gifts can be made to the VCU Department of Chemistry.

LINETTE WATKINS NAMED ACS FELLOW

Dr. Linette Watkins, a councilor for the Virginia local section, has been named a 2014 ACS Fellow. The ACS Fellows Program was created by the ACS Board of Directors in December 2008 “to recognize members of ACS for outstanding achievements in and contributions to Science, the Profession and the Society.”

Dr. Watkins is a biochemist with a B.S. from Trinity University and a Ph.D. from the University of Notre Dame. After completing a post-doctoral appointment at Texas A&M University, Dr. Watkins spent 17 years at Texas State University before being appointed as department head at James Madison University in 2014.



Dr. Watkins’ research is focused on understanding bacterial desulfurization and bioremediation. She also promotes active learning in the biochemistry classroom, and using undergraduate research to promote student success. In the ACS, Dr. Watkins has been a strong advocate for diversity and inclusion as the Chair of the Committee on Minority Affairs, through the ACS Scholars, and as a founding member of the Women Chemists of Color program. She also served as a local section leader in the Central Texas local section, as Chair of the 2011 Southwest Regional Meeting, and as the organizer of Minority Affairs Subdivision programming for the Division of Professional Relations.

Warren E. Weaver 1921 - 2014



Dr. Warren E. Weaver died on July 10, 2014 at the age of 93. Dr. Weaver served as dean of the School of Pharmacy at the Medical College of Virginia from 1956 until his retirement in 1981. He was a national and state leader in pharmacy education. Born in Sparrows Point, Maryland, he received a B.S. in Pharmacy and a Ph.D. in Pharmaceutical Chemistry from the University of Maryland. From 1942 until 1945, he served as a Research Assistant with the National Defense Research Council, then worked at the Naval Research Laboratory in Washington from 1945-50. He taught one year at George Washington University before joining the faculty at MCV. From 1954-56, he served as Professor of Chemistry and Chairman of the Department of Chemistry and Pharmaceutical Chemistry at MCV. He was elected Dean of the School of Pharmacy in 1956 and was instrumental in developing an outstanding program in pharmacy education.

Dr. Weaver was very active in the Virginia Section, serving as Section Chair in 1962. Other positions that he held included Secretary, Treasurer, Vice Chair, Chair-Elect, and Editor of the Bulletin. The photo on the right is from 1961 when he was a candidate for Chair-Elect.

After retiring from MCV in 1981, he started a second career as a founding member and president of the Christian Pharmacists Fellowship International. He loved gardening, reading, and fishing at Nags Head. Dr. Weaver is survived by his wife, Esther Schiesser Weaver, a son, three daughters, seven grandchildren, and eight great-grandchildren. Memorial donations may be made to the Alzheimer's Association.



CHEMLUMINARY AWARDS

Each year, the American Chemical Society recognizes outstanding achievements by local sections and divisions through a series of ChemLuminary Awards. As Scott Gronert noted in his "Chair's Corner" above, the Virginia Section has been nominated for five ChemLuminary awards this year. This follows the Section's outstanding work in 2013 when it was a finalist for a record eight awards and won five of those. The Section received two ChemLuminary awards in 2012 and others in 2008, 2009, and 2011. This year's ChemLuminary Awards will be presented on August 12 at the ACS National Meeting in San Francisco.

For more information, and to see the recipients for 1999 through 2013, go to <http://www.acs.org/content/acs/en/funding-and-awards/awards/community/chemluminary.html>.



RICHMOND CHROMATOGRAPHY DISCUSSION GROUP

The Richmond Chromatography Discussion Group (RCDG) is functioning again. Talks on chromatography-related topics are given at locations in the Richmond area. Contact M. Tyler Smith at Altria Client Services to be added to their email list: Matthew.T.Smith@Altria.com; (804) 335-2759.

NEW FIFTY-YEAR MEMBERS OF THE ACS

Congratulations to these members of the Virginia Section who have been active in the American Chemical Society for fifty years:

| FIFTY-YEAR ACS MEMBER | LOCATION |
|------------------------------------|------------------------|
| Dr. Robert G. Bryant | Charlottesville |
| Dr. Judith A. Crissman | Fredericksburg |
| Dr. William B. Edwards III | Richmond |
| Dr. John L. Hudson | Charlottesville |
| Dr. Richard L. Kiefer | Williamsburg |
| Mr. Frank J. Miraglia Jr. | Fredericksburg |
| Dr. John R. Moody | Powhatan |
| Dr. Raphael M. Ottenbrite | Midlothian |
| Ms. Sandra B. Ryan | Richmond |
| Dr. Chandler Roy Taylor Jr. | Mechanicsville |
| Mr. Richard E. Thek | Williamsburg |

NEW SIXTY-YEAR MEMBERS OF THE ACS

Congratulations to these members of the Virginia Section who have been active in the American Chemical Society for sixty years:

| SIXTY-YEAR ACS MEMBER | LOCATION |
|-------------------------------------|---------------------|
| Mr. Alfred Anthony Gonzalez | Williamsburg |
| Mr. Seraphim Lawrence Guerra | Midland |
| Dr. John William Howard | Louisa |
| Mr. Henry Bolway Merritt | Richmond |

EMERITUS MEMBERSHIP IN ACS

Emeritus membership is available to ACS members with 35 years or more of paid membership who are at least 70 years old and are retired from full-time employment. Emeritus members receive free ACS membership and other benefits, including *C&EN*. Emeritus membership must be renewed each year. To renew your membership or apply for emeritus status, contact Member Services at (800) 333-9511 or (614) 447-3776 or by e-mail to service@acs.org. Or go online to www.renew.acs.org.

QUESTIONS FROM THE PAST

This question was asked in the April Bulletin: When Dr. Jeffrey Seeman gave his talk at the March meeting of the Section, he broke a tie with Dr. Lidia Vallarino for the number of presentations to the Section. Dr. Vallarino gave talks at four meetings. Dr. Seeman's five talks now ties him for the most ever. **Who is the University of Virginia professor who also has given presentations at five meetings of the Virginia Section?** Dr. Ralph Allen has given these five talks:

"The Scorpion King Meets CSI: How the Analysis of DNA Aids Archaeological and Criminal Investigations" - September 19, 2008

"The Analytical Chemist in the Fight Against Crime" - November 14, 2003

"Chemists--Endangered or Dangerous Species?" - December 10, 2002

"Uncovering the Secrets of the Nile (Cracked Pot Chemists Look at the Past)" - November 1, 1991

"Cracked Pot Chemistry: A Geochemist Uncovers the Secrets of an Ancient Technology" - March 21, 1986



A new question from the past: The governor of the Commonwealth of Virginia spoke at a Virginia Section meeting in 1952. This was a joint meeting with the Virginia-Carolina Chemical Corporation and was held at the Hotel John Marshall in Richmond. The governor's topic was "Scientific Research and Our American Way of Life." **Who was the governor who spoke to the Virginia Section?**



CHEMISTRY SEMINARS AT THE UNIVERSITY OF VIRGINIA

Sept. 5 - **Professor Miriam Freedman**, Pennsylvania State University

Sept. 26 - **Professor Matt Kanan**, Stanford University

Oct. 10 - **Professor Rory Waterman**, University of Vermont

Oct. 17 - **Professor Helmut Schwarz**, Technical University of Berlin

Oct. 24 - **Professor Alex MacKerell**, University of Maryland

Oct. 31 - **Professor W. Carl Lineberger**, University of Colorado

Nov. 7 - **Professor Gary Pielak**, University of North Carolina at Chapel Hill

All seminars are held at 4:00 p.m. in room 304 of the Chemistry Building.

The full seminar schedule can be found at <http://chem.virginia.edu/events-seminars/fall-2014/>

WORDS OF WISDOM FOR THE SUMMER: "High Expectations Are The Key To Success"

CAN YOU IDENTIFY THIS PERSON?



The photograph is from April, 1992. The subject served as Chair of the Section in 1995, after completing terms in the positions of Treasurer, Secretary, Vice Chair, and Chair-Elect. In 1991, he received the Section's Distinguished Service Award for High School Chemistry Teaching. He holds a B.S. degree in chemistry from Bridgewater College and an M.S. in biochemistry from Virginia Tech, and has done further graduate work at Tech and at the Ohio State University. He taught chemistry at Harrisonburg High School for many years and has taught at Bridgewater College and at Eastern Mennonite College. On March 16, 1990, he spoke to the Virginia Section on "Chemistry Education in the Twenty-First Century."

The persons shown in the March Bulletin were Dr. Ann Sullivan and Ms. Joy Ann Ross. Dr. Sullivan, Coordinator of the Chemistry Olympiad for the Virginia Section, presented an award to Ms. Ross for the outstanding Olympiad work by her students at the Maggie Walker Governor's School. In 2001, Ms. Ross received the Section's Distinguished Service Award for High School Chemistry Teaching.



STATE COUNCIL HONORS LINDA COLUMBUS



Dr. Linda Columbus, Associate Professor of Chemistry and Molecular Physiology and Biological Physics at the University of Virginia, has received a 2014 Outstanding Faculty Award from the State Council of Higher Education. The State Council program honors faculty at Virginia colleges and universities for excellence in teaching, research, knowledge integration, and public service. Her research involves membrane proteins that facilitate the transfer of information across lipid bilayers. The Columbus Group seeks to determine the structure and conformational changes of membrane proteins involved in bacterial infection. Dr. Columbus holds a B.S. degree from Smith College and a Ph.D. from the University of California, Los Angeles.

STUDENT POSTER PRESENTATIONS APRIL 11, 2014 UNIVERSITY OF VIRGINIA

Kyana Afshar, Brad Brown, Marisa Konishi, Sophia Lim, Taylor Parr, Yvonne Zhang, Carol Price, Cameron Mura, Linda Columbus, Department of Chemistry, University of Virginia, **Preliminary Kinetic Characterization of PyDAT, a Putative Aspartate Aminotransferase**

Brooke Andrews, and K. Nicole Crowder, Department of Chemistry, University of Mary Washington, **Comparative Synthesis of 4,4'-di(bromoalkyl)-2,2'-bipyridine**

Brigit Baglien, Angela Baquiran, Zac Bessette, Alison Bellew, Ann Lee, Adi Narahari, Angelica Verdan, Department of Chemistry, University of Virginia, **Introductory Studies Into Active Site Characterization and Functioning in *Corynebacterium diphtheria* Cystathionine Beta-Lyase**

Savannah Barnett and Andrew Yeagley, Department of Chemistry and Physics, Longwood University, **Alternative Extraction Method of Ptilomycaulin A from marine sponge *Ptilocaulis spiculifer***

Savannah J. Barnett, Brian E. Cornwell, and Sarah E. G. Porter, Department of Chemistry and Physics, Longwood, University, **Identification of Organic Gunshot Residue on Surfaces Using High Performance Liquid Chromatography with Diode Array Detection (LC-DAD)**

Randi Beil and Peter Ruiz-Haas, Department of Chemistry and Physics, Mary Baldwin College, **Degradation of Bisphenol-S with UV Light**

Aylina Benge, Alexandra Bocharnikov, Jason Liao, Simay Okyay, Michelle Sjostrom, Sankeerth Takkellapati, Linda Columbus, Cameron Mura, Carol Price, and Ellen Speers, Department of Chemistry, University of Virginia, **Characterization of *ErAroAT*, a Novel Aromatic Aminotransferase from *Eubacterium rectale***

J. Drake Bishop and H. J. Sipe, Jr., Department of Chemistry, Hampden-Sydney College, **Electron Spin Resonance (ESR) Spectroscopic Investigations of Phenoxy Radicals Generated from Paraben Additives and Raspberry Ketone Supplement**

Logan Carpenter, Zachary Wood, and Daniel Harrison, Department of Chemistry, Virginia Military Institute, **Synthesis of Ruthenium Single-Site Electro-catalysts for CO₂ Reduction**

Brent Clark, Ryan Miccio, and Stan Smith, Department of Chemistry, Virginia Military Institute, **Synthesis and Biological Testing of Pyrimidines**

Jeff Davidson and Leanna Giancarlo, Department of Chemistry, University of Mary Washington, **STM Investigation of Coadsorption of Carboxylic Acids on Graphite**

I. De Leon, F. Gutierrez, M. Long, K. Miller, R. Singh, S. Bentley, L. Columbus, C. Mura, C. Price, Department of Chemistry, University of Virginia, **Enzymatic Characterization of a Putative Aspartate Aminotransferase from *Deinococcus geothermalis***

Matthew R. Dent, Jonathan A. Boltersdorf, Caroline J. Campbell, and Barbara A. Reisner, Department of Chemistry and Biochemistry, James Madison University, **Understanding Metal-organic Framework Assembly in Hydrotris(1,2,4-triazolyl)borate Materials**

Joshua Driskill, Davide Vanzo, Dusan Bratko, and Alenka Luzar, Department of Chemistry, Virginia Commonwealth University, **Metastable Vapor in Janus Nanoconfinement**

Meade C. Edmunds and H. J. Sipe, Jr., Department of Chemistry, Hampden-Sydney College, **Development of Lab VIEW Software with NIEHS DOS-based Software Program ESR Capabilities for Post-processing ESR Spectra**

Selma Elsarrag and Karl Zachary, Department of Chemistry and Physics, Mary Baldwin College, **Supramolecular Interactions between Peptides and a Glycouril-Based Molecular Clip: a Computational Study**

Christopher Gerace, Jason Freischlag, and Christopher Gulgas, Department of Chemistry and Physics, Longwood University, **New Tb³⁺ Complexes for Detecting Capsaicinoids in Aqueous Solution**

Eric Johnson and Catherine N. Crowder, Department of Chemistry, University of Mary Washington, **Synthesis of a Catalytic Metal Oxide Surface through the Use of Click Chemistry**

Hyeonjin Lee and Roseanne M. Ford, Department of Chemical Engineering, University of Virginia, **Impact of Chemoeffector Concentration Gradients on the Pattern of Bacterial Surface Attachment**

Hyeonjin Lee, Shelby Shultz, Catherine Williams, Zach Wright, Sana Zahid, Linda Columbus, Carol Price, and Cameron Mura, Department of Chemistry, University of Virginia, **Functional Investigation of a Putative Alanine-Glyoxylate Aminotransferase from *Mus musculus*, MmAGT**

Ben Maldonado, Bilal Chaudhry, Sylvia Akauloa, Rebecca Babski, Stephen Grado, Carol Price, and Cameron Mura, Department of Chemistry, University of Virginia, **Expression, Purification, and Kinetic Characterization of ErAspAT**

Alexander Mathew and James Demas, Department of Chemistry, University of Virginia, **Inexpensive Ratiometric and Lifetime Oxygen Imaging with Dual Emissive Polymers**

Aaron McMillion and Sara Fitzgerad, Department of Chemistry, Bridgewater College, **More Tolerable Peptide Drug Therapies via Binding to Human Serum Albumin**

Ariel Nash, Gang Zhang, and Rong Huang, Department of Medicinal Chemistry, Virginia Commonwealth University, **Syntheses of S-Adenosyl Methionine Analogs**

Tyler B. Nguyen, Shanequa McDowell, and Maria L. Craig, Department of Chemistry and Physics, Mary Baldwin College, **Interactions Between the LL37 Peptide and DNA**

Salma Omer, Arun Samidurai, and Rakesh Kukreja, Pauley Heart Center, Virginia Commonwealth University, **Sildenafil (Viagra®) Protects Against Ethanol Cytotoxicity in H9C2 Rat Cardiomyoblasts Under Normal and High Glucose Conditions**

Sebastien Ortiz¹, Jennifer Martin¹, Alison Criss², and Linda Columbus¹, Department of Chemistry¹ and Department of Microbiology², University of Virginia, **Progress Towards Understanding Opad Interactions with CEACAM1**

Abbey Pfister, Osama Saadon, Kyle Sandridge, Christina Son, Eleferios Trikantopoulos, Milton Tyler, IV, Amanda Wang, Carol Price, Cameron Mura, and Linda Columbus, Department of Chemistry, University of Virginia, **Function Determination and Characterization of CgAspAT**

Georgi Talmazov and Glen Kellogg, Department of Medicinal Chemistry, Virginia Commonwealth University, **A Novel Topological Model of the Tuftelin Gene**

Jefferson C. Thompson and H. J. Sipe, Jr., Department of Chemistry, Hampden-Sydney College, **Electron Spin Resonance (ESR) Spectroscopic Studies of Free Radical Intermediates in the Chemical Oxidation of Syringaldazine and Related Compounds by Cerium (IV)**

M. Jennifer Van¹, Mahmoud Namazil, Ruxi Xiangl, Amarda Shehu^{1,2,3}, and Estela Blaisten-Barojas^{4,5}, Computer Science¹ and Bioengineering² Departments, School of Systems Biology³, Computational Materials Science Center⁴, and School of Physics, Astronomy, and Computational Sciences⁵, George Mason University, **Structural Analysis and Dynamics of the Met-Enkephalin Peptide**

Andrew Veenis and Kenneth Overway, Department of Chemistry, Bridgewater College, **Redesign of a Gas Chromatograph for Sulfur-Specific Detection**

Danielle Wolin, Eve Privman, and Jill Venton, Department of Chemistry, University of Virginia, **Dopamine Neurotransmission Modulates *Drosophila* Feeding Behavior**

SERMACS 2014



October 16 - 19, 2014
Sheraton Music City Hotel
Nashville, Tennessee

The 66th Southeastern Regional Meeting of the American Chemical Society will be held in Nashville, Tennessee, October 16-19, 2014. "Tune in to Chemistry in Music City."

- SYMPOSIA – GENERAL SESSIONS – POSTER SESSIONS – EXPOSITION – SCI-MIX –
- HIGH SCHOOL PROGRAMS – UNDERGRADUATE PROGRAM – TEACHERS PROGRAM –
- GRAD SCHOOL FAIR – BUSINESS RELATED SEMINARS – AWARDS LUNCHEON –
- WORKSHOPS – CAREER ACTIVITIES – CONCERT BY THE STEEL DRIVERS

DEADLINE FOR ON-LINE ABSTRACT SUBMISSION - August 29
HOTEL RESERVATION DEADLINE - September 24
ADVANCE REGISTRATION DEADLINE - September 25

For more information, visit the SERMACS2014 web site: www.SERMACS2014.org.

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THE BULLETIN

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