Next CSW Meeting 12/9

On Saturday, December 9th, the December CSW meeting will be held at Alfio’s La Trattoria, featuring a presentation by Dr. Carl G. Simon, Jr. This meeting is co-sponsored by the CSW Senior Chemists Committee. Logistics can be found below.

Biography: Dr. Carl G. Simon, Jr

Dr. Simon is a biologist and Project Leader in the Biomaterials Group at the National Institute of Standards & Technology. He earned a B.S. in Biology from Bucknell University in 1992 and a Ph.D. in Biochemistry from University of Virginia in 1998, where his thesis focused on signal transduction during human platelet aggregation. He trained as a post-doctoral fellow in the NIST Polymers Division, and became a staff scientist at NIST in 2003. He has lead projects on tissue engineering and biomaterial scaffolds with a focus on cell-material interactions since 2007. Dr. Simon is Chair of ASTM Committee F04.43 “Cells and Tissue-Engineered Constructs”, where documentary standards are being developed to support the development of medical products. Dr. Simon is active in the Society for Biomaterials and is on the editorial board for Biomaterials and Journal of Biomedical Materials Research Part B.

Abstract: **Tissue Engineering Scaffolds for Osteogenic Applications**

The use of scaffolds to engineer bone has been investigated from several perspectives. In one track, osteoprogenitor cells were cultured in several types of scaffolds and osteogenic differentiation was assessed. In another track, the 3D shape of cells in scaffolds was measured and analyzed with computational methods to determine how 3D cell shapes affect the cell physical properties with regard to differentiation. Finally, a high-throughput method for assessing osteogenesis in vivo has been developed that enables 19 osteogenic formulations to be tested in one mouse using the subcutaneous implantation model. Results will be presented and discussed in terms of how they may improve bone tissue engineering.

Meeting Logistics

Date: Saturday, December 9
Time: 11:39 a.m. check-in, noon lunch, 1:00 p.m. presentation

Location: Alfio’s La Trattoria Restaurant, 4515 Willard Avenue, Chevy Chase, Maryland 20815

Menu: Choice of entrée: Chicken Dorati, Veal Piccata, or Eggplant Parmigiano. Served with a house salad, bread, beverage (coffee, tea or soft drinks), and ice cream sandwiches. Alcoholic beverages will be available for purchase.

Cost: $30 Members / Guests, $15 Students

RSVP by noon on Wednesday, December 6th to csw@acs.org, or by phone (messages only: 202-659-2650). Space is limited for this event, and registration will be taken on a first-come basis.
Call for Nominations: CSW Chemical Ambassadors Award—Deadline Extended

Contributed by John Malin and Darryl Boyd, CSW Committee on Public Relations

The nomination deadline for the CSW Chemical Ambassadors Award has been extended to December 31, 2017. This award will honor a CSW member whom also serves as an ACS Chemistry Ambassador. Qualifications for nomination are broad in scope, including (but not limited to) working with grade school science students, judging science fairs, explaining a scientific concept to the general public, working with Congress on scientific matters, publishing a science article or blog, or giving science-related interviews on radio or TV. A written nomination should include a description of the accomplishments on which the nomination is based. Additional documentation that includes seconding letters and the nominee’s CV are welcome. The awardee will receive a plaque and special recognition from the CSW chapter of ACS at a future CSW meeting (date TBD). Nominations and questions concerning the award should be submitted electronically to John Malin (jmalin023@verizon.net) or Darryl Boyd (darryl.anthony@gmail.com) from the CSW Committee on Public Relations.

Crystal City Family Festival Photos

Top left: Ivana Brekalo, Elizabeth Nesbit, Matthew Martin, Safia Jilani, Seth Cohen, Camille Lombard-Banek, Kim Morehouse, Eileen Morehouse, and Jason Schaff. Top right: Kim Morehouse and Safia Jilani perform chemistry demonstrations. Bottom: Tents set up at the Crystal City Family Festival, held in conjunction with the Marine Corp Marathon.
CSW Project SEED Career Seminar

Contributed by Allison Aldridge, Project SEED Coordinator

CSW held a Career Seminar for the Project SEED Fellows on August 12th. The panel included five CSW chemists: Joseph Duran, Cardinal Health; Julius Green I, Ph.D., Executive Director of Empowerment Enterprise II and adjunct professor at Northern Virginia Community College; LaKesha Perry, Physical Science/Engineering Technician in the Inorganic Materials Group and the Polymeric Materials Group at the National Institute of Standards and Technology (NIST); Louis Poon, Ph.D. candidate at Georgetown University; and Viviana Rodriguez, student at Montgomery College and student fellow at NIST.

The panel discussed their education, careers, and how they solve problems. They answered questions posed by the facilitator, the fellows and their family members as well as CSW volunteers. The fellows were also given information about careers in chemistry. The evaluations for the event were outstanding, and we also received ideas to enhance the event for the future.

As Project SEED coordinator, I am grateful for the CSW volunteers that agreed to participate on the panel and those who supported the event. Please join us for Project SEED 2018 as a volunteer by sending an email to Allison457@aol.com.

If you can sponsor a Project SEED fellow at your university or institution, please send an email to Allison457@aol.com. Information about the program is available at: https://www.acs.org/content/acs/en/education/students/highschool/seed.html?_ga=2.231778847.1065033710.1510690622-343669225.1460404354

The Project SEED program is financially supported by the National Project SEED program and our local section. Please contribute to the Noel Turner Fund to help sustain our local section program. Checks payable to the Noel Turner Fund can be sent to the CSW Local Section Office, 1155 Sixteenth Street, NW, Washington, DC 20036.
Congratulations to Poster Competition Winners

Contributed by Jennifer Tanir

The Chemical Society of Washington (CSW) held a joint symposium with the National Capital Area Chapter of the Society of Toxicology (NCAC-SOT) on October 13, 2017 on “TSCA: Best Practices in Toxicology, Risk, and Chemical Management Strategies.” The successful event attracted over 75 attendees, plus over 40 additional participants connected via webinar, and 26 poster submissions. The webinar recordings and slides are available at http://www.toxicology.org/groups/rc/ncac/events.asp.

For the poster competition, submissions by graduate student and postdoctoral fellows were judged based on the clarity of the abstract, the quality of the study that was performed, and the quality of the presentation, and were topicically divided and judged by either CSW or NCAC-SOT judges. We are pleased to announce the following poster award winners:

CSW Awards

First place graduate student: Ivana Brekalo (Georgetown University), Temptation of Novel Zeolitic Imidazolate Frameworks in the Solid State

Honorable mention graduate students: Gracia El-Ayle (Georgetown University), Structural Analysis of Extremely Confined Gases Inside a Lipophilic Cage Molecule; and Sarah Fischer (University of Maryland, College Park), Characterization and Quantification of Pharmaceutical and Personal Care Product (PPCP) Interactions with Biosolids-Derived Dissolved Organic Matter

First place postdoctoral fellow: Dr. Robert Balow (Naval Research Laboratory), Towards Real-World Chemical Warfare Agent Decomposition: The Role of Ambient Environmental Components on Zr(OH)4 Nanoparticles

NCAC-SOT Awards

First place graduate student: Sarah Attreed (Johns Hopkins Bloomberg School of Public Health), Chronic arsenic exposure reduces influenza vaccine immunogenicity in adult female C 57BL/6 mice

Second place graduate student: Camille Lombard-Banek (George Washington University), Single-cell Temporal Proteomic Analysis in the Developing Frog (Xenopus) Embryo

Honorable mention: Megan Chesnut (Johns Hopkins University, Bloomberg School of Public Health), Development of a dysmyelination test to study developmental neurotoxicity of environmental chemicals in a human brain microphysiological system

First place postdoctoral fellow: Dr. Laura Savery (US Food and Drug Administration, Center for Devices and Radiological Health), Deriving a provisional tolerable intake for intravenous exposure to nanoparticles released from medical devices

Second place postdoctoral fellow: Dr. Darshan Mehta (US Food and Drug Administration, Center for Food Safety and Applied Nutrition), Evaluating performance of chemical fingerprinting methods and machine learning algorithms for in silico prediction of Ames mutagenicity

Honorable mention: Dr. Mapa S. T. Mapa (US Food and Drug Administration, Center for Food Safety and Applied Nutrition), Elucidating the Mode of Transport of Fatty Acid Esters of 3-MCPD into Proximal Tubule Cells

YCC Happy Hour 12/14

Contributed by Sara Orski, CSW Younger Chemists Committee

The Younger Chemists Committee will be hosting a winter happy hour Thursday, December 14th at The Prospect DC (1214 U St NW, Washington, DC) from 6-8 PM. Come meet your chemistry peers in the DC area, hear about upcoming events, and enjoy some light food and a drink on us! There's space reserved for 40 people, so if you'd like to attend, please RSVP to ycccs@gmail.com.

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Capital Chemist Staff
Voice: 202-659-2650
Email: thecapitalchemist@gmail.com
Twitter: @CapitalChemist

Chair, Publications
Christopher W. Avery

Editor, Business Manager
Jessica L. Rasmussen

Publisher
Chemical Society of Washington

Advertising Manager
MBO Services
PO Box 1150, Marshfield, MA 02050
Vince Gale, Advertising Manager
vincegale@mboservices.net
781-837-0424 voice

CSW Correspondence
CSW, 1155 16th Street, NW, 0-218
Washington, DC 20036
202-659-2650 voice
e-mail: csw@acs.org
http://csw.sites.acs.org

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The Chemical Society of Washington (CSW) is the local ACS Chapter for the Washington, DC area and serves approximately 4,000 members.

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CSW Calendar of Events

December 9: CSW/Senior Chemists Luncheon
December 14: YCC Happy Hour
December 31: CSW Ambassadors Award Deadline

The Capital Chemist