

## ***Good News for Chemistry***

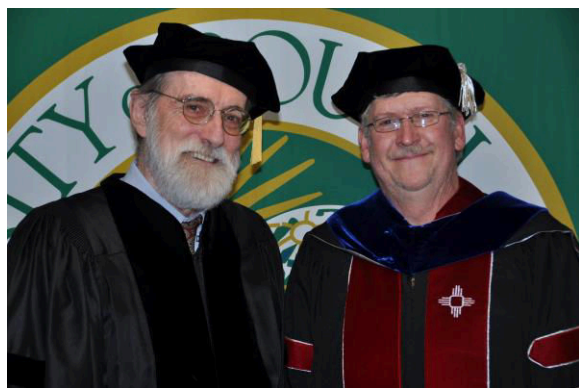
### **NAS Election**

**Dr. Joseph S. Francisco**, Purdue University and recipient of a D.Sc. (*h.c.*) at the USF December Commencement was elected to active membership in the National Academy of Sciences (April 30).

The citation for Dr. Francisco and other chemists who have received honorary degrees from USF may be found through a link (*Honorary Degrees*) on the left-hand column of the Department Web page.

### **Honorary Degree Awardee**

**Dr. Jerry L. Atwood** received the D.Sc. (*h.c.*) from USF May 3<sup>rd</sup> at the 6 pm commencement.



Dr Jerry Atwood and Dr. Randy Larsen (photo courtesy of Ms.Entela Balliu Caisse, MBA)

The citation noted:

“Dr. Jerry Atwood is currently the Curator, Professor and Chair of the Department of Chemistry at the University of Missouri. An international leader in the field of supramolecular chemistry, Dr. Atwood was one of the first scientists to understand the significance of this emerging field. He has pioneered this area of research, co-writing a textbook, co-editing an encyclopedia, founding a journal and writing numerous notable research articles on the field. Dr. Atwood holds 13 patents and numerous notable research findings. In 1969, he first discovered liquid clathrates, (lattices of one type of molecule that can trap a second kind of molecule), which led to the development of the field of ‘green’ or ‘environmentally friendly’ chemistry.”

“Astoundingly, Dr. Atwood’s prolific body of work has been cited more than 29,000 times with 67 of his papers having more than 100 citations each. He has published more than 750 articles in refereed journals, including five in *Science*, four in *Nature*, 45 in *Angewandte Chemie* and 104 in the *Journal of the American Chemical Society*. Editor of numerous peer-reviewed journals, he founded the journal *Supramolecular Chemistry* in 1992 and the *Journal of Inclusion Phenomena* in 1983.”

“He received a B.S. in chemistry and Mathematics from Southwest Missouri State University and a Ph.D. from the University of Illinois. “ He also served as Dr. Michael Zaworotko’s doctoral advisor.

## **May Graduates (cont)**

On May 4<sup>th</sup>, **Mr. Anthony Iannelli**, received a Masters of Education (College of Education) with a concentration in College Student Affairs. He has worked across campus in areas including both Student



Mr. Iannelli

Government and New Student Connections. He has been a member of the Chemistry advising cadre for several months.

## **August Grads**

The recipients of graduate degrees in the August 10<sup>th</sup> Commencement included the following chemists (advisors are listed parenthetically).

### **Master's:**

**Ms. Si Yi (Dr. Jon Antilla)**



Dr. Van Horn



Ms. Si Yi

### **Doctoral:**

**Dr. Courtney DuBoulay (Dr. Wayne Guida); Dr. Kurt Van Horn (Dr. Roman Manetsch); Dr. Ushiri Kulatunga (Dr. Jennifer Lewis)**



Dr. DuBoulay



Dr. Kulatunga

## **Chemists' work in *USF Magazine***

A record number of stories about chemists appeared in the summer issue:

### **Searching for Cures**

Chemical compounds discovered in the farthest reaches of the natural world and optimized in the laboratory could lead to life-saving cures. Story features Professor **Bill Baker**, CDDI Director, collector of specimens on the Antarctic sea floor and other marine sites around the world, explains the process for going from sample collecting to finding a compound that would be a significant drug. Others involved in the chemodiversity lab include Professor **Jim Leahy**.

<http://magazine.usf.edu/2013/summer/features/searching-for-cures.aspx>

### **On the Brink of a Cure**

**Dr. Roman Manetsch**, associate professor of chemistry, and **Dr. Dennis Kyle**, professor of global health, were co-leaders

of the USF team that helped to discover *and* develop a series of potent compounds, known as quinolones, to combat malaria.

<http://magazine.usf.edu/2013/summer/features/on-the-brink-of-a-cure.aspx>

### **Clear Air Technologies**

A discovery by USF and KAUST chemists could be a breakthrough in developing new tools for cleaner air and energy production. The international group reported (in a March issue of *Nature*) their discovery of “a previously underused material... capable of removing carbon dioxide even in the presence of water vapor.”

Professor **Mike Zaworotko**, a spokesman for the SMMARTT center said “We have something unprecedented.”

Those involved also included Drs. **Brian Space**, **Shengqian Ma**, **Mohamed Eddaoudi**, and a graduate collaborator **Patrick Nugent**. Credit was also given to student **Stephen Burd**.

<http://news.usf.edu/article/templates/?a=5245>

Details for each story may be found using the links provided. Our thanks to **Ms. Kimberly Read** for providing the helpful links to these impressive stories.

## ***Inside the Department***

Our Department has immense responsibilities of teaching, research, and service, of course, but some time is set aside for personal relationships.

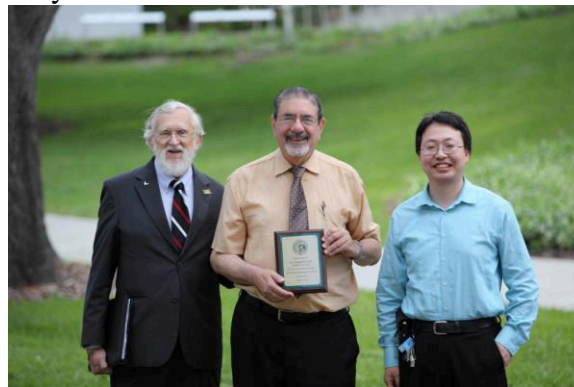
### **Peer Leading progress**

A new Permanent Instructor, **Dr. Laura Anderson** is working with **Ms. Christina Nelson**, (academic services administrator) and **Nina Oliver**, a member of the advisory cadre to develop a new helpful Website:

<http://chemistry.usf.edu/peerleading/> They designed the website with **Mr. Brant Tudor's** help in order to help recruit more students into the program with an online form as well as student testimonials and additional information about the program.

### **Martin Lecturer**

**Dr. Richard N. Zare**, Marguerite Blake Wilbur Professor in Natural Science at Stanford University, served as the 2013 Martin Lecturer presenting a Seminar “Desorption Electrospray Ionization” on May 23<sup>rd</sup>.



Drs. Martin, Zare, and Cai (photo courtesy of Ms. Aleksandra Karolak)

Dr. Zare has over 800 publications, and a number of awards; recent examples include the King Faisal International Prize in 2011, Honorary Membership into the Japan Society for Analytical Chemistry (2011), the Einstein Professorship of the Chinese Academy of Sciences (2011), the Torbern Bergman Medal (2012), and the International Science and Technology Cooperation Award of the People's Republic of China (2012).

He is also a member of the National Academy of Sciences, the American Academy of Arts and Sciences, American Philosophical Society, and the World Jewish Academy of Sciences, Fellow of the American Physical Society, American

Association for the Advancement of Science, and many others. He recently has been appointed chair of the Committee on Science, Engineering and Public Policy of three academies, i.e., the National Academy of Sciences, the National Academy of Engineering, and the Institute of Medicine.

### **Mrs. Osteen retires**

Dr. Larsen wrote “Mrs. Venice Osteen retired from USF after 24 years of outstanding service to our department and the University of South Florida! She started with us on August 21, 1989, and her last day was June 28, 2013.”

In honor of her years of service to Chemistry, the Department held a brunch for her on Friday, June 28<sup>th</sup>.



Mrs. Venice Osteen , her daughter (Mrs. Mathias), and the USF blanket Venice received.

Dr. Larsen wrote in a message to members of the Department, “Venice has been a cornerstone of the main office since well before I arrived. I, for one, am indebted to her for her service to our department! Thank you Venice!!!”

**Ms. Kimberly Read and Ms. Linda Lowe** coordinated the planning. **Mr. Roberto Avergonzado, Ms. Adrienne McCain, and Ms. Cheryl Graham** assisted with implementation.

In addition to the USF blanket, **Mrs. Osteen** also received a memory book from faculty, staff, and friends complete with messages and pictures of the writers. **Ms. Read** prepared a poster with a collage of past pictures and a biography.

### **NSF –Chem SEEDS REU**

Dr. **Patricia Muisener** and Assistant Chair and Dr. **Sandi-Urena** Co-Principal Investigators provided helpful background information about the ten-week program.

Nine students from different universities and colleges across the country participated in the program doing research alongside their faculty mentors and graduate mentors.

“Our Graduate Mentors ... did a great job of advising the students and participated in the events. Dr. **Sandi-Urena** and **Ms. Ranjani Muralidharan** worked hard to make sure the program was a success. We also had a REU Advisory Committee: **Ms. Ranjani Muralidharan, Mr. Parker Huhta, Ms. Siqi Sun,** and **Mr. Adrian Villalta-Cerdas**. This committee did a great job and actively participated in running the Chem-SEEDS REU Program.”

“They helped organize the events which included an industry tour to Ocean Optics, and also facilitated all the Monday seminars and the Friday REU Research meetings.”

Monday Seminars included presentations by Dr. **Ed Tuross** (“Ethics”), Dr. **Mark McLaughlin** (“Drug Discovery/Bioethics,”)

Dr. **Dean Martin** (“Chemical Literature Searching” and “Errors in Science”). Ms. **Adrienne McCain** conducted a seminar on tips for applying to graduate school.”

“Our Chemistry Council of Graduate Students, included Ms. **Hasnaa Mouttaki**, Ms. **Jennifer Santiago**, Mr. **Joey Gill**, **Wenyang Gao**, and Ms. **Jackie Fries**, met with the students for a Graduate Student Forum and discussed everything they needed to know about Graduate school.

Staff members assisted: Ms. **Kim Read** was instrumental in making sure the REU students were hired and on payroll, Ms. **Linda Lowe** helped organize the travel and anything else we needed and Ms. **Cheryl Graham** ordered all the supplies for every student .

Participants were Mr. **Jesus Dones** (University of Puerto Rico, Rio Piedras), Ms. **Ayunna Epss** (Albany State U.), Ms. **Amber Hughes**, Florida Gulf Coast U.) , Ms. **Hangny Dao** (Barry University) Ms. **Fiona Kearns** (USF), Ms. **Kristin Meise** (Marian University of Fond du Lac, Wisc.), Mr. **Vinent Fullerat** (Polk State College), Ms. **Linda Vang** ( Cal State College-Stanislaus) Mr. **Kenny Wang** (New College).

## ***Persons you may know***

**Rachael Alessio** (M.S.’11) accepted a position as production chemist with Medical Chemical Corporation in Los Angeles.

We had a chance to visit with Ms. **Dyane Chapman**, a long-time staff member in Chemistry, when we happened to meet on campus. She and her husband **Larry** are both retired and have time to travel, most

recently to several interesting places in California.

**George P. Cobb** (Ph.D. ‘89) is Chairman of Environmental Chemistry at Baylor University. A recent ACS biography noted: “Prof. Cobb maintains strong national and international leadership positions in the American Chemical Society, the Society of Environmental Toxicology and Chemistry,



Dr. Cobb (photograph courtesy ACS ENVR)

and the International Union of Pure and Applied Chemistry. Within ACS, he currently serves as a subcommittee chair for the Committee for Environmental Improvement, and within the Division of Environmental Chemistry he serves as treasurer and alternate councilor and as a member of the International Activities Committee. Previous roles within ACS ENVR include Certificate of Merit Chair, member-at-large, and assistant treasurer. He is a candidate for Chair-Elect of the ACS ENVR Division.

**Craig C. Foreback** (Ph.D. ‘73) visited us recently. He is Emeritus Senior Lecturer , Department of Pathology & Laboratory Medicine, University of Wisconsin School of Medicine & Public Health. **Dr. Robert Braman** was his doctoral mentor.

**Kerriann Greenhalgh** (Ph.D.’08) of KeriCure, Inc. was interviewed (June 7<sup>th</sup>) for WFLA, Channel 8, Tampa concerning skin care products she has developed. She has been working with a marketing firm

(designing the product packages and advertising). Several versions have been developed for different health care markets. **Dr. Ed Tuross**, her doctoral advisor said that the product, as a water emulsion, may be



Dr. Greenhalgh

sprayed on a skin cut, quickly forming a film that stops bleeding and allows for skin regrowth while stopping infection.

**Priyesh Jain** (Ph.D.'10) is employed at Modulation Therapeutics, 3802 Spectrum Blvd, Tampa. **Dr. Mark McLaughlin**, his doctoral advisor, kindly brought us up to date.

**Sbidar R. Kaulagari** (Ph.D. '10), a doctoral advisee of Dr. McLaughlin's, is a postdoctoral fellow at Georgia State working in the field of near-IR dye synthesis and bioconjugation.

**Chungsik Kim** (Ph.D. '10), whose mentor was **Dr. Peter Zhang**, is currently a postdoctoral fellow with Prof. Tsutomu Katsuki at Kyushu University in Japan.

**Joshua Ruppel** (Ph.D.'08) is a tenure-track assistant professor of chemistry at the University of South Carolina Upstate. His doctoral mentor, Dr. Zhang, brought us up to date.

**Ralph Salvatore** (Ph.D. '01) is Dean of the Arts and Sciences and Professor of Chemistry at Pueblo Community College in

Pueblo, Colorado. He noted that he also continues to conduct research in the area of organic and medicinal chemistry with both undergraduate and graduate students while holding a joint appointment as a professor of chemistry at Colorado State University-Pueblo.



Dr. Salvatore

**Melissa Topper-Rodnick** (Ph.D.'10) after postdoctoral study at Wayne State University is a radiopharmaceutical chemist at the University of Michigan. She, also, was an advisee of **Dr. McLaughlin's**.

**Xue (Snow) Xu** (Ph.D. '12) was invited with financial support to attend the Reaxys Inspiring Chemistry Conference in Grindelwald, Switzerland September 22-24. She was one of 45 finalists selected from 580 applicants and will present a portion of her doctoral research. **Dr. Peter Zhang** was her doctoral advisor.

Several alumni are faculty members at State College of Florida-Bradenton's Department of Natural Sciences. They include Professor **Anthony J. Gambino** (Ph.D. '93) Associate Professor **Crystal Gambino** (M.S. '94), Adjunct Instructor **Craig C. Foreback** (Ph.D. '73), and Assistant Professor **Jose Ors** (Ph.D. '74).

## **RIP**

*Marylyn Tuttlton Lupton*, Ph.D. died July 24 after a long illness. She was a secretary in the Department of Chemistry for nearly 17 years before resigning to complete her graduate work. During the years she was employed at USF she registered for six hours of classes (an employee perquisite) and earned a B.A., M.A., and Ph.D diplomas. She left chemistry to become a teaching assistant in humanities, subsequently retiring to spend more time with her husband, Keith Lupton. (Further information in the *Tampa Tribune*, July 27, Metro, p.5)

## **Faculty-Staff Fund Drive**

An annual drive to encourage Faculty and Staff to donate to funds that support students and staff members was successful. Last year, participation was boosted to 42% system-wide, the total number of donors was the highest in the history of the campaign. And for the fourth year in a row over 90% of the faculty and staff in chemistry participated.

## **Out and about campus...**

### **A New Tradition Begins**

“Facilities management recently worked with USF’s Student Government Association (SGA) to procure and install a beautiful bull statue in front of the student entrance to the Sun Dome.”



Picture courtesy Ms. Karla Willman, USF Facilities Management.

“SGA dedicated the bull statue as a symbol of good fortune to all and asks that those passing by touch or pat the hoof of the bull... for good fortune.”

*Information from USF Facilities E-flash.*

## **Campus changes --- past and future...**

### **Summer work**

Work on “Castor Beach” has been scheduled by USF Facilities Management. This is a facility near a dormitory named for former USF president **Betty Castor**.

## **Treasured Donors**

The following is a list of those who made gifts to the Department of Chemistry, January 1- June 30, 2013, as obtained from the College of Arts and Sciences Office of Development. We are grateful for the special support of the alumni, faculty, friends, staff, and corporate and foundation donors listed here.

Dr. Kirpal S. Bisht  
Mr. Harvey R. Chaplin

Community Foundation of Tampa Bay, Inc.  
Dr. Xin Cui  
Elsa U. Pardee Foundation  
Dr. Kimberly Bliss Fields  
Dr. Ioannis Gelis  
Dr. Anthony J. Girgenti  
Mr. Walter Augustus Goins III  
Mr. Lawrence Greenwald  
Dr. Wayne C. Guida  
Ms. Lorene L. Hall-Jennings  
Dr. Thomas A. Jackman  
Robin L. Jones  
Dr. James W. Leahy  
Ms. Dawn R. Lee  
Dr. Jennifer E. Lewis  
Dr. Abdul Malik  
Mr. John L. Martin  
Mr. Bruce F. Martin  
Mrs. Barbara B. Martin and Dean F. Martin  
Dr. Mark A. McLaughlin  
Dr. Gerhard G. Meisels  
Ms. Suzanne Rogers Moore  
Dr. Patricia Anne Muisener  
Dr. Rebecca M. O'Malley  
Ms. Kimberly Bailey Read  
Rooms to Go Children's Fund  
Ms. Frances M. Salo  
Dr. Santiago Sandi-Urena  
Ms. Judith T. Solomons  
Ms. Patricia C. Sullivan  
Tampa Bay Section of the American Chemical Society  
The Briar Foundation  
The Margaret Ewell Dickens Foundation  
Dr. Edward Turos  
Mr. Damon E. Walker  
Dr. Henry Lee Woodcock III  
Dr. Xiao-Xiang Peter Zhang

## ***News and feedback***

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***Webmaster:*** Mr. Brant Tudor



Mr. Tudor

**About those acronyms...**

**CDDI** - Center for Drug Discovery and Innovation

**KAUST** - King Abdulla University of Science and technology

**SMMARTT** –Smart Metal-organic Materials Advanced Research and Technology Transfer

***News:***

For past issues you may have missed, please see the departmental Web page.

***News for us or comments?***

Please write to: [dfmartin@usf.edu](mailto:dfmartin@usf.edu)

or share with the Webpage or with the Facebook.



## **Acknowledgments**

We are grateful to **Ms. Victoria Mothershed** for a number of photographs. We acknowledge the valued assistance of **Ms. Ann Serota**. This is the 47th issue that has benefitted from **Mrs. Barbara Martin's** proof-reading.