

Annual ACS Report

An annual report is submitted to the ACS (American Chemical Society) Committee on Professional Training each fiscal year

This year's document was prepared by Dr. Patricia Muisener for the period July 1, 2011 and June 30, 2012.

Undergraduates

Bachelor's chemists	
certified to ACS	17
not certified	506

Graduates

Master's	5
Ph.D.	16

Faculty Information

Full time tenure-track/tenured	25
Full time permanent instructional	7
All others (full-time equivalents)	5

The department is seeking an additional five full-time permanent instructional Staff and one assistant professor (tenure track)

Good news for Chemistry

Mr. Christian R. Cioce

Mr. Cioce (an advisee of **Dr. Brian Space**) has been invited to be the Keynote Speaker at an induction ceremony of the National Society of Collegiate Scholars.



Mr.Cioce

Dr. Randy Larsen noted that The National Society of Collegiate Scholars (NSCS) is an honors organization that recognizes and elevates high achievers. NSCS provides career and graduate school connections, leadership and service opportunities and offers nearly half a million dollars in scholarships annually. **Mr. Cioce** was the 2011-2012 Department Webmaster.

Dr. Jacqueline Hargis

Dr. Hargis, a postdoctoral researcher in **Dr. Lee Woodcock's** group gave an invited Highlighted Presentation at the 2012 USF Postdoctoral Colloquium on November 15th. It was a showcase of current research among USF and Moffitt postdoctoral scholars. Her presentation was entitled "What Makes 'Perfect Penicillin' Perfect?"

Dr. Hargis earned her Ph.D. in Chemistry from the University of Georgia, and has been working with **Dr. Woodcock** for the past two years.

Ms. Fiona Kerns



Ms. Kerns, an undergraduate student, won an outstanding poster award at the recent NanoFlorida Conference. She worked with **Dr. Bill Baker** and **Dr. Lee Woodcock**. The poster was entitled: “Computational Ecology: Elucidating novel chemical defense mechanisms of Antarctic Sea Sponges” with co-authors **Fiona Kerns, Sai Lakshmana Vankayala, Bill J. Baker, and H. Lee Woodcock**.

Ms. Susana S. Lopez

Ms. Lopez was selected for the Graduate School's Dean's Scholars program for 2012-13. This program is designed to increase underrepresented minority student enrollment in the STEM fields at USF.



Ms. Lopez

She will be going on a short recruiting trip and be involved a few other activities

throughout the year. All the recruitment expenses will be paid by the Graduate School. **Dr. Jon Antilla** is her faculty advisor.

Dr. Arjan van der Vaart

Dr. van der Vaart was granted tenure in August, and he was promoted to associate professor. The autumn of 2009, he joined the USF Faculty where he is one of a group of highly regarded computational chemists.

Additional biographical material concerning his background was presented in the *News* (Autumn 2010 issue).

Congratulations and best wishes to **Dr. van der Vaart**.



Meetings of Interest

244th ACS Meeting, Philadelphia

The Department was well represented at this meeting with faculty presenting in several divisions. For example, **Dr. Shengqian Ma** was the co-organizer of a symposium on Metal-organic Frameworks for Energy and Fuels, which included papers by **Dr. Randy Larsen** and **Dr. Mike Zaworotko**, both of whom presented additional papers in other divisions).

Dr. Jennifer Lewis contributed an invited paper at a symposium honoring Dr. Susan Hixson, who recently retired from NSF after 20 years as a program director (Division of Undergraduate Education).

Dr. Lee Woodcock presented two papers (in IE&C and Physical Chemistry) and was co-author of two others.

Dr. Cheryl Li presented a paper in the Analytical Chemistry Division.

Dr. Dean Martin contributed a paper in the HIST division.

Details (titles, co-authors) may be found at www.acs.org

STEM meetings

Dr. Gerry Meisels, professor of chemistry and Director, Coalition for Science Literacy, was in Washington, D.C. the first week in October. He attended the annual meeting of the Triangle Coalition for Math and Science. He serves on the Triangle Coalition Board, and he also served on the planning committee for this year's meeting.



Dr. Meisels

He told us, "A big part of the meetings are the informal visits to the Hill arranged by the TC staff... [The] meetings raise the visibility of STEM education in Congress."

The next week he went to Orlando for The Future of Florida Forum. He was a member of a subcommittee "developing a plan for strengthening one of the six pillars of the Florida Chamber Foundation's 20-year plan for economic growth" (The only STEM educator in the subgroup).

For a few days of the week of October 15th he was in Jacksonville working on FCAT questions.

Research Administrators Conference

This meeting held in Orlando, October 1-3, was attended by **Ms. Kimberly Read**, Manager, Fiscal and Business Administration and by **Ms. Victoria Mothershed**, Chemistry's Research Administrator.

17th World Congress on Advances in Oncology

This and the 15th International Symposium on Molecular Medicine 11-13 October, 2012, Creta Maris, Hersonissos, Crete, Greece. **Dr. Mildred Acevedo-Duncan** (research associate professor) presented a paper, "*In-vivo* effects of ICA-1 on cancer xenografts," and she also served as co-chair of the session.



Dr. Santiago Sandi-Urena (Asst. Professor) is pictured with **Dr. Miranda Li Wu**, ACS President-Elect at the congress held in Cancun, Mexico, October 27-31.

In visiting, they discovered several objectives in common. **Dr. Sandi** noted that she, too, wishes to promote globalization and inter-national collaboration. She is also interested in supporting the International Chemical Education symposia that **Dr. Sandi** organizes for ACS Spring National Meetings.

Persons you may know

Dr. Jack Fernandez (Charter Faculty member, 1960-95 Professor Emeritus, (1995-) and **Mrs. Sylvia Fernandez** are Laureate Supporters of the Trail Blazers (a speaker series featuring USF College of Arts and Sciences) and were present at the dinner meeting in downtown Tampa on September 12th.

Dr. Leon Mandell (Faculty 1984-2000; Dean, 1984- 1990; Emeritus Professor, 2000) and **Dr. Sara Mandell** (retired USF professor) were guests at the same gathering of Trail Blazers.

David Flanigan (Ph.D. 2004) is a research Associate in **Dr. Roman Manetsch's** laboratory.

Barbara and Dean Martin were dinner guests (October 20) of the organizers of the annual meeting of the Association of NROTC Colleges and Universities held this year at USF.

David Rogers, ('80) M.D.(84) "received the 2012 Distinguished Educator Award from the Association for Surgical Education (ASE)..." It is "the most prestigious of the association's Excellence in Surgical Education Awards" [ALUMNIvoice, Fall 2012]

Inventors and Inventions

Some 98 patents were issued to the University of South Florida during what was a banner year. Here is a list of 2011-2012 patent recipients in Chemistry. (Faculty member names are in *Italics*).

USF and a number of institutions are recognizing an important role of patents in decisions concerning pay, promotion and tenure.

#7,977,381

Heidi Kay, Jay Palmer, Joseph A. Stanko

#8,034,952

Mohamed Eddaoudi, Faris Nouar, Jarrod Eubank, Lukasz Wojtas, Till Bousquet, Michael Zaworotko

#8,093,027

Edward Turos, Thomas Koob, Kerriane Greenhaigh

#8,110,699

Edward Turos, Michelle Leslie

#8,110,699

X. Peter Zhang, Shifa Zhu

#8,143, 183

Edward Turos, Burt Anderson, Ryan Scott Comier, John Thomas, Rebecca Kapolka, Glenn Roma

Copies of each may be found at
<http://www.pat2pdf.org>

Inside the Department

WOW Celebration

Dr. Eric Eisenberg, Dean College of Arts and Sciences, was a guest speaker at the first Chemistry Faculty meeting on September 30. He spoke on the changes that state universities are experiencing these days, and commended the faculty for their achievements, and the department for its singular place in the College.



Ms Kimberly Read



Ms. Linda Lowe

Subsequently about 4:00 pm a pot luck buffet, organized by **Ms. Kimberly Read**, and assisted by **Ms. Linda Lowe** and other Staff members, was available by the Chemistry main offices for faculty, staff, and graduate students. An enjoyable time was reported, and the event continued past 8:00 pm.

Department Directories

Faculty, staff, graduate students, and post-doctoral associates each have their directories that are available on the Department Web page under the *Directory* link. Thus, under the Staff directory, one could note that **Ms. Kimberly Read** (see previous item) is the Department's "Manager Fiscal & Business Administration" and that **Ms. Linda Lowe** is a "Fiscal & Business Assistant".

For staff members, more details are provided about their individual responsibilities.

Administrators visit

Dr. Randy Larsen made arrangements for a visit by **President Judy Genshaft** and **Provost Ralph Wilcox** on September 24th. The Chair made a presentation entitled "Department Performance and Alignment with the USF Strategic Plan."

After introductions of those present, the two administrators toured two core facilities and several laboratories.



NMR facility visitors

Pictured (above) are Drs. **Larsen, Wilcox**, and **Genshaft** observing graduate student **Andrii Monastryski** showing how NMR data, once collected, are sent to an email

address automatically after each run and then can be retrieved by “phone/PC, etc.”

Oktoberfest Celebration

Chemists were among those invited to the annual Oktoberfest celebration. This was sponsored by the College of Arts and Sciences (Dr. Eric Eisenberg, Dean) and cosponsored by the USF Club. Delicious food and beverages (appropriate to the festival) were available.

There was also food for thought as researchers were invited to hang posters describing their results. Chemistry was represented by 27 of 81. Our thanks to the students and faculty who participated, as well as to **Ms. Christi Young**, who obtained confirmation of the numbers.

What did they do later?

It is interesting to see what our graduates did after receiving a BA or BS in Chemistry at USF. The following is a small sampling of the listing of undergraduate alumni to be found on our Web Page. This was the latest information available.

Cherie Key (’64) Med Tech USAF, Fairchild AF Base.

Carol (DeRosier) Sharer (B.A. ’67) is a Pharmaceuticals Project Manager in Raleigh-Durham, NC.

Chris Lambrianos (’79) Pharmacist, Eckerd Corp, Tarpon Springs, FL

Christian Bailey (’95) MD, USF

Christopher Whitener (’74) Consulting CPA, Hickory, NC

Clifford Frost (’82) President, UniNetworks, Inc. Germantown, MD

Colin Beach (’85) MD, physician and owner, Family Care at Tampa Palms

Craig Pethe (’84) MPH (’91) Environ. Engr., Raytheon Co. St Petersburg

Cristiano Morgante (’76) Scientist, Tetronix Inc. Beaverton, OR

Dale Coy (’80) Plant Engr, Milliken & Co. Abbeville, SC

Daniel Bashour (’84) VP operations, Mylan Pharmaceuticals, Morgantown WVA

David Rogers, M.D. (’80) earned his M.D. from USF (’84) and is professor of pediatric surgery at Southern Illinois School of Medicine. Previously he was on the surgical faculty of the Medical College of Georgia (Augusta).

USF System achievements

On September 19th, President Judy Genshaft presented the annual State of the University Address that an *Oracle* reporter described as “bright and cheery.”

- USF ranked in the top 50 public and private universities in federal support. USF’s total for research contacts and grant was a new record of \$411,061,232.
- Fifth friendliest university for veterans
- “12th coolest school” according to the Sierra Club
- Several departments were cited for their national and international distinction. Chemistry was among them.

Out and about campus...

We're Number Eight

USF is now the eighth largest public university in the United States, according to **Provost Ralph Wilcox**.

Following the drop/add period, enrollment for the USF System reached 47,646 with 40,040 at the Tampa campus. The remaining students are at Sarasota-Manatee (1,951), USF-St Petersburg (4,648) and Lakeland (1007).

USF System officials hope to keep the Tampa campus at the present size.

Enrollment of international students increased by 12%, a change that was “quite intentional”, according to Director of Admissions, **David Henry**.

Sun Dome News

Sir Elton John was the Sun Dome’s grand opening act on September 14th. The “Rocket Man” had played the Sun Dome previously in 1984, 1986 and 1988. Ticket prices ranged from \$39.50 to \$139.50.

He played enthusiastically for about three hours to a sold out crowd of about 9,900.

USF Health Proposal

The USF Board of Trustees unanimously supported a proposal to form a hospital-university collaboration with Lakeland Regional Medical Center.

If the Center joined with the USF Health System as many as 250 new residency positions would be created at Lakeland.

“This would make USF the largest residency program in the state.”

Campus changes --- past and future...

“Collins Park”

Office of Facilities and Construction was responsible for “Collins Park,” a beautiful outdoor space for the campus community to enjoy. It is located on Leroy Collins Blvd and is placed on the south facade of the Library.

It is an inviting urban park is with a large sun shade structure, a tranquil fountain area, beautifully landscaped grounds, and plenty of gathering or ‘chilling’ spots for kicking back and relaxing alone or with friends and colleagues.

It is also equipped with WiFi, as well as gray plastic tables and benches where students can eat and/or study under shade.

Plants, palms, and other trees were located around a central plaza area.

Library traffic has grown, and **Bill Garrison**, USF dean of libraries, noted some **18,000** students pass through the library *each day* during the fall and spring semesters, and they have the latest in laptops and other electronic devices. Now they have an additional space to gather comfortably.

Water for the fountain comes from rain on the side of the Library roof. Also condensation from the air conditioning system is captured and stored.

Library renovation

The USF –Tampa Library continues to adapt to new technology. *A/V Media* has returned

to the sixth floor. *Newspapers* are now on the first floor. *Microfilm* is in the basement.

The first floor has a number of computer work stations that seem very popular. And a *Jobs Hub* and a *Career Corner* were added in August.

Periodicals that were housed on the second floor were placed in storage, a temporary inconvenience was better and cheaper than hauling the journals to the University of Florida for storage, paying for the storage, then paying the return moving costs. Besides, most articles are available through Interlibrary loan in less than 48 hours.

Journals (print copy) was scheduled to be in the new housing by October 15th

The Library has adapted with the times so that perhaps 80% of the materials are available electronically. If they are not immediately available, outstanding librarians will promptly assist in satisfying the library needs of students and faculty.

The journals will be available in special take-up-less-space shelving once renovation is complete.

USF SMART Lab

The Second Floor of the library was converted into a *Learning Commons* with over 300 computer workstations. The project is made possible by the Student Tech Fee.

Ms. Megan Sheffield supplied the following information:

“The USF SMART lab is a learning laboratory for math and science that utilizes the best research-based practices for teaching and research. This Lab is staffed by faculty and instructional staff who

provide on-demand personalized assistance.”



Smart Lab prior to opening, courtesy of Ms. Ellen Thornton

The College Algebra is a significant example. From 2007-2010, the average failure rate at USF was 35%. In 2011-2012, the value was 27%, but only 18% for the newly redesigned pilot College Algebra classes that used the Emporium Course Model. Good things may be expected from the SMART Lab.

News and feedback

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News:

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

News for us or comments?

Please write to: dmartin@cas.usf.edu
or share with the Webpage or with the
Facebook.

Web page:

<http://chemistry.usf.edu>

Webmaster: Mr. Brant Tudor



Mr. Tudor

Acknowledgments:

We are grateful to **Ms. Victoria Mothershed** for a number of photographs.