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 Kearns, 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. 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.

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.
30th Latin American Chemistry Congress

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 Faulty 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, Kerrianne Greenhaigh

#8,110,699
Edward Turos, Michelle Leslie
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.

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.

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.

NMR facility visitors

Pictured (above) are Drs. Larsen, Wilcox, and Genshaft observing graduate student Andrii Monastrytskyi 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) Enviorn. 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](image)

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.

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Mr. Tudor

Acknowledgments:

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