



USF Chemistry NEWS

News of Interest to
Friends of the Department of Chemistry
University of South Florida

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Recognition...

Dr. Mohamed Eddaoudi, Assistant Professor of Chemistry, is ranked number 68 among the 100 most highly cited chemists in the world, according to annual ranking of ISI Web of Knowledge published in November 2007. (The ranking covers the last 10- year period). Last November, the total citations (from November 1997 to October 2007) was 7,166.

The latest listing of total citations was 9,076 (including 2008), according to information provided in an announcement by Dr. Cheryl Kirstein, CAS Associate Dean for Research and Scholarship.

Dr. Eddaoudi joined the faculty in August 2002, and was awarded the NSF-Career award in 2006, the most prestigious NSF award for Young Investigators. He is also the principal investigator in a BES-DOE grant awarded in 2007 to tackle the use of functional porous solids as sorbents for hydrogen and their use for vehicular application.

Dr. Edward Turos, Professor of Chemistry, and his research team's work is featured in the most recent issue of *USF Magazine*.

Dr. Turos is Director of the Center for Molecular Diversity in Drug Design, Discovery and Delivery (CMD5). He is also

a founding member of the Florida Center of Excellence in Biomolecular Identification and Targeted Therapeutics.

The research on nanoparticles that contain drug molecules could be “a key to fighting Methicillin-resistant *Staphylococcus aureus*, also called MRSA” according to the article. MRSA, once a problem in “hospitals and nursing homes, is spreading rapidly to the general population.”

Nobel Laureate in Science Lecture Series...

Dr. Aaron Ciechanover, this year's lecturer was a

His studies showed how “ubiquitin, a small protein molecule, was directly linked to proteins through a series of enzymes... once a protein was linked with ubiquitin, it would be degraded through a second set of enzymes.”

Many arrangements were the result of Faculty of the Department of Biology.

New Orleans ACS Meeting

Among those faculty attending or represented were **Drs. Mohamed Eddaoudi, Randy Larsen, Jennifer Lewis, David Merkler, Li-June Ming, Edward Turos, Mike Zaworotko.** Dr. Ming gave an invited lecture (“Metal Ions in Neurodegenerative Diseases”). Dr. Lewis, in addition to presenting a paper on using POGIL activities in undergraduate biochemistry courses, also attended a pre-session meeting as a member of the Division of Chemical Education Executive Committee.

Faculty and students went to New Orleans in different ways. Some flew. Dr. Turos’s students car-pooled. Dr. Larsen’s students went with him in a van that he rented.

FAME 2008

The Department was well represented at the Annual meeting of Florida Chemists held at the Orlando Sun Resort and Conference Center, May 8-10.

Among the faculty present or represented were **Drs. Mildred Acevedo-Duncan, Bill J. Baker, Kirpal S. Bisht, Alfredo Cardenas, Julie Harmon, Randy W. Larsen, Roman Manetsch, Dean F. Martin, Mark L. McLaughlin, David J. Merkler, Li-June Ming, Edward Turos,**

and Mike Zaworotko. Dr. Cardenas was the organizer for two physical chem

Department Webmaster. We asked him for a short autobiography.

“I grew up in the small central Illinois town of Taylorville. After graduating from high school, I attended Coastal Carolina Univ. in Conway, SC, where I received an NSF Scholarship and the Coastal Scholar’s Award. While there, I met my future wife, Lindsay, between my second and third years. During my final two years at CCU, I studied wave mechanics with Dr. Louis Keiner, and did my undergraduate research project with Dr. John Goodwin on the spectroscopy of various Co(III) tetraphenylporphyrin derivatives, some of which was published in *Inorganic Chemistry*. In May 2001, I graduated Magna Cum Laude with a B.S. in Chemistry.”

“After graduation, I worked in an analytical lab in Springfield, IL, where I realized that computation and theory was my main interest.”



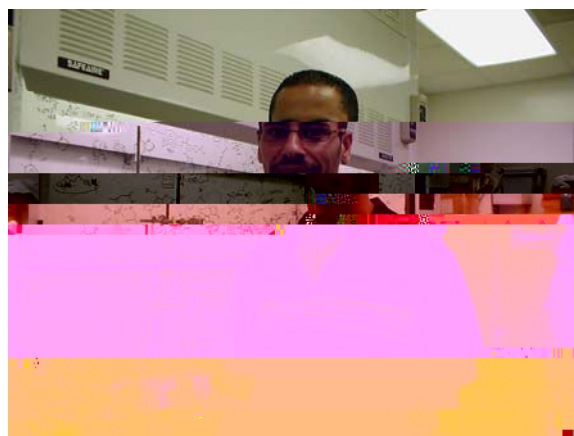
Mr. Tony Green

“In 2002, I enrolled in the Ph.D. program at USF, and joined Dr. Brian Space’s group, where I am studying molecular modeling and sum frequency generation spectroscopy. For the past two years, I have been appointed as the webmaster for the department.”

Spotlight on...

Mr. Farid Nouar is a graduate student in **Dr. Mohamed Eddaoudi’s** research group. **Mr. Nouar** was born in Roussillon, France, in 1975. He earned his high school diploma (BACCALAUREAT) in mathematics and natural science in 1994. He then went to medical school for 2 years, but switched to biochemistry and earned his bachelor’s degree in 2001 at Universite Claude Bernard, Lyon, France. He then earned a Masters in Material Science and Formulation Engineering (2003) at the same university.

He joined the USF Department of Chemistry in August 2005 to work toward a Ph.D. His research area is concerned with porous metal-organic materials and their application on hydrogen storage.



Mr. Farid Nouar in his laboratory

Mr. Nouar noted that he had prior associations with USF: “During my first

Interactions for Calixarenes/bio-molecules Crystallization.”

He added, “During my second year (2003), I worked for 5 months (on an internship required by the university) in Dr. Eddaoudi’s lab, on Design and Synthesis of Zeolite-like Porous Solid.”

Mr. Nouar has been an active researcher with seven papers in major refereed journals, along with several presentations at scientific meetings.

End of the term gathering...

It has been a custom of several years to have an end-of the semester gathering, usually after the last Faculty meeting of the term. This one was held May 9th at 5 pm. Our thanks to Ms. Lorene Hall-Jennings and Dr. Zaworotko for the arrangements.



Drs. Manetsch, Rivera, McLaughlin, Ms. Hall-Jennings, Drs. O’Malley, Weldegirma, Muisener, (uncertain), Ms. Read



Back: Drs. Turos, Bisht, Weinzierl, Antilla, Zaworotko, Tate, Larsen.
Front: Drs. Acevedo and Lykourinou.
(Pictures courtesy Mr. John Connaughton, M.B.A.)

USF then and now...

The university opened in 1960 with *five* buildings; it now has *0*.

The campus had no sidewalks when it opened; the first was laid between Administration and the University Center in the fall, 1960.

The budget in 1960 was *.4 million*; in 2008, it is about *1. billion*.

The percent of the budget provided by the State appropriation and by tuition has decreased noticeably over the years, During President Castor’s administration it was 39%. In 2007-2008, it was 23%. In 2008-2009, It may become less than 18%, owing to economic problems the state is facing.

In 1960, USF started with about 2,000 students; now there are over 45,000, and USF is the *ninth* largest university in the US.

***“Plus ça change, plus c’est
la même chose”***

dedication to excellence in Quality and our proven experience in producing high quality polymer blanks for the soft contact lens industry.”

Dr. Julia R. Burdge (M.S. '90) is the author or co-author of several chemistry books, including Chemistry: the Central Science (9th ed.) by T. L. Brown, H.E. LeMay, B. E. Bursten, and J. R. Burdge (May 2002); Chemistry by J. R. Burdge and R. Chang (Feb, 2008), and Chemistry by J. R. Burdge (McGraw-Hill Higher Education January, 2009).



Dr. Julia Burdge

After receiving her Ph.D. from the University of Idaho, she was a faculty member at the University of Akron, where she became a tenured associate professor.

In 2001, she relocated to the Honors College of Florida Atlantic University.

She is currently living and writing in Pasco County

George Cobb (Ph.D. '89) is Professor of Environmental Toxicology at Texas Tech U. In addition to an active research program involving, among other areas, toxicant

distributions left in the wake of Hurricane Katrina, he is active in the Environmental Chemistry Division of the American Chemical Society. He has served as Member-at-large, Merits Awards Chair and is currently a candidate for Alternate Councilor (2009-2011).

Dr. Jeff C. Davis, Jr. (Faculty, 1965-98; Chair, 1978-82, 1995-98) is helping with a new departmental history project – the history of NMR, as suggested by Dr. Edwin Rivera, Research Assistant Professor.

He wrote, “We seem to be busy despite retirement. Sylvia is active in the local Art Association and doing some watercolor work as well and is involved with an active philanthropic women’s’ group. I’ve become quite active in a local Kiwanis Club which puts its emphasis on helping children in various ways. We have managed a few short trips lately such as a nice several days in Yosemite Valley with Sylvia’s brother and sister-in-law.”

Scott Lewis (Ph.D. '06), Assistant Professor, Department of Chemistry and Biochemistry, Kennesaw State University visited us May 27. It was good to see him again.

Dr. P. Calvin Maybury (Faculty, 1961-87; Chair, 1963-74) also agreed to help with the NMR history project.

Mark McClure (Ph.D. '99) is a tenured Associate Professor in the Department of Chemistry and Physics at University of North Carolina-Pembroke.

Charles D. Norris (Ph.D. '95) is the Coordinator, Laboratory and research Services, Department of Civil,

*Barbara and Dean Martin Seminar Series
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