

NE News

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 An American Nuclear Society Publication

Message from the New ANS @ UF President

ANS at UF has many new exciting activities and opportunities that will set higher standards for the society this upcoming school year. Events such as the ANS National Winter conference, volunteering for Habitat for Humanity, and running several charity drives/fundraisers are a few of the ways ANS at UF is hoping to help the community and stay involved with industry. The biggest project that will be undertaken by ANS this year is the reconditioning and the reestablishment of the Nuclear Field Building as a major asset to nuclear engineering research at UF. Due to recent events, the building's spaces have fallen into disuse despite several ongoing research projects that are occurring within it. Dr. Jordan, the new lab director and one of our new faculty members, has asked for our assistance in this effort. Some of the projects include fixing up office space, restoring lab equipment, and restarting a high energy neutron generator! This is a rare opportunity for students and it's something that I highly encourage you all to get involved in.

Due to recent changes in our program, it is essential to be involved with society projects and build a strong network amongst yourselves. This will allow for further growth of the student section and remove any doubt from those who think that former department politics are reflective of how our society maintains itself. I implore everyone in ANS to find a way to get involved, either through a committee or simply helping out with projects/activities. Doing so will give you the skills and contacts necessary to go far in this field!

ANS @ UF to attend National Conference in Washington, DC

ANS @ UF will be attending the National Winter Conference hosted at the Omni Shoreham hotel in Washington, DC from October 30th-November 3rd. Sixteen undergraduate and graduate student members of the National American Nuclear Society will be representing our section and attending lectures, panels, and presentations from around the world to be briefed about new happenings in nuclear technology and meet with heads of our industry. These 16 students will also be assisting with technical sessions whose topics cover the broad spectrum of nuclear engineering. Formal career fairs will also be attended where our students can network with national labs, nuclear utilities, government agencies and other employers to find internships, co-ops, and full time career opportunities. During free time, the students plan to visit national landmarks and tour our nation's capital. They also plan to celebrate Halloween in Washington, DC. The large number of students attending this trip could not have been accomplished without the continued support of the American Nuclear Society, individual and company sponsorships, and the UF Student Government.



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"Students can network with national labs, nuclear utilities, government agencies, and other employers..."

Meet the Faculty: Dr. DuWayne Schubring

DuWayne Schubring is an Assistant Professor of Mechanical and Aerospace Engineering, member of the Nuclear Engineering Program, and the faculty advisor for the University of Florida Student Section of the American Nuclear Society. His research interests include nuclear thermal hydraulics, two-phase flow, quantitative visualization, multi-physics modeling, and engineering of advanced reactor systems. He has been at UF since 2009, after receiving his Ph.D. in Nuclear Engineering and Engineering Physics from the University of Wisconsin-Madison. During the past two years, he has taught ENU 4133/4134 (Reactor Thermal Hydraulics) and ENU 4191/4192 (Senior Design).



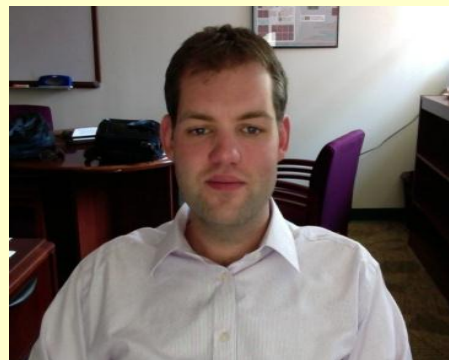
Meet the Faculty: Dr. Yong Yang

Dr. Yong Yang is an Assistant Professor in Nuclear Engineering Program, Materials Science and Engineering Department at the University of Florida. Dr. Yang received his PhD from UW-Madison on 2005, and then worked as a postdoc researcher in Engineering Physics department at UW and later on was promoted to assistant research scientist. Dr. Yang joined the faculty of University of Florida on 2010. His research is focused on materials for the next generation nuclear plant (NGNP) and light water reactor (LWR) sustainability, including advanced materials with improved radiation stability, novel fabrication and joining methods for advanced steels, radiation effects in core and RPVs of LWRs and carbide coating for TRISO fuel. In the past five years, Dr. Yang has worked on and successfully managed several DOE and NRC sponsored projects. Dr. Yang was also leading a PIE project sponsored by the Advanced Test Reactor National Scientific User Facility at Idaho National Laboratory (INL) to conduct the investigation on how nuclear reactor candidate ceramics fare under neutron irradiation.



Meet Our Newest Faculty: Dr. Kelly Jordan

Dr. Jordan joined UF in August as Assistant Professor and Director of the UF Training Reactor (UFTR). He is a UFNRE alumnus, completing his undergraduate studies in 2001. He received his Ph.D. in Nuclear Engineering in 2006 from the University of California, Berkeley, and has spent the last 4 years at the Paul Scherrer Institute in Switzerland working in the area of experimental reactor physics and measurement techniques development. His main research areas include Reactor Physics, Radiation Detection, and Nuclear Nonproliferation. He'll be teaching the Senior NRE Lab, ENU 4192, in Spring 2012.



Meet the Faculty: Professor Emeritus James Tulenko

James S. Tulenko, a Professor Emeritus in the Department of Nuclear and Radiological Engineering at the University of Florida in Gainesville, FL, is also the Director of the Laboratory for Development of Advanced Nuclear Fuels and Materials. He was Chairman of the Department of Nuclear and Radiological Engineering at the University of Florida for sixteen years. He is a Past President of the American Nuclear Society (ANS). Prior to his academic career, Professor Tulenko spent 23 years in the Nuclear Industry as Manager, Nuclear Fuel at Babcock and Wilcox; Manager of Physics at Nuclear Materials and Equipment Corp, and Manager, Nuclear Development at United Nuclear. He has been a consultant to the U.S. Nuclear Regulatory Commission, the Department of Energy, Los Alamos National Laboratory, Idaho National Laboratory, Pacific Northwest National Laboratory, the Canadian Government, the Canadian Owners Group, the French CEA and numerous companies. He was an Adjunct Professor at Geo. Wash. University while in Industry. Professor Tulenko was also a teaching Fellow at Harvard University, while a graduate student. Prof. Tulenko has numerous fields of interest in the nuclear area, most of which involve nuclear fuel processing and performance and nuclear power plant operation and economics. He was presented with the Silver Anniversary Award of the American Nuclear Society (ANS) for his contributions to the nuclear fuel cycle in the first 25 years of the ANS. He has also received the Mishma Award of the ANS for his nuclear material research achievements. For his contributions to the field of Nuclear Science and Technology, he was the recipient of the Arthur Holly Compton Award of the ANS. He received the Glenn Murphy Award of the American Society for Engineering Education for his contributions to the Nuclear Engineering Education field. He is a Fellow of the American Nuclear Society for his contributions to the nuclear fuel cycle. He is a past member of the National Nuclear Accrediting Board of the Institute of Nuclear Power Operations, Past Chairman of the Chemical Materials and Technology (CMT) Division Review Board at Argonne National Laboratory, and a past member of the Advisory Review Board for the Decision Applications (DA) Division at Los Alamos National Laboratory. He was also an Associate at Los Alamos National Laboratory. He is a member of the Nuclear Advisory Board for the Nuclear Engineering Graduate Program at the University of South Carolina and an adjunct professor in Mechanical Engineering at USC. He is a Board member of the Board of Directors of the Accreditation Board for Engineering and Technology (ABET), a past Commissioner of the Applied Science Accreditation Commission, a past Commissioner of the Engineering Accreditation Commission and a past alternate Commissioner of the Technology Accreditation Commission. He has authored sections on the nuclear fuel cycle in the Handbook of Mechanical Engineering, the Nuclear engineering Handbook and the Encyclopedia of Energy Engineering and Technology. He was an editor of the proceeding of "Intelligent Robotics and Remote Systems for the Nuclear Industry," and has published well over one hundred and fifty technical publications dealing with energy. He serves on the Editorial Advisory boards for the *Journal of Nuclear Engineering and Science* and the publication, *Radwaste Solutions*.



Upcoming Dates

ANS vs. SHMPS flag football game	Oct. 8 12pm @ SW Field 1
Habitat for Humanity Volunteering	Oct. 22
General Body Meeting	Oct. 26
ANS Conference	Oct. 30-Nov.3
Next Newsletter Out	Nov. 7

About the American Nuclear Society @ UF

The American Nuclear Society Student Chapter at the University of Florida is an organization of Nuclear and Radiological engineering students dedicated to the promotion of nuclear science and technology for the benefit of humanity. The chapter is instrumental in informing the public of everyday radiological applications in an attempt to alleviate the common misconception of "fear" when it comes to radiation.

Nuclear science and technology is integrated into our everyday lives in many ways. Not only does over 20% of our nation's electricity come from nuclear power, but last year over 12 million lifesaving radiological medical procedures were performed in this country alone. Irradiation can make food safer to eat and mail safer to open. Also many of the products we use in everyday life rely on nuclear techniques for quality control measurement and production. Even the white poinsettias we see during the holiday season have been produced via the irradiation of seeds.

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Questions or if you would like to join ANS or help with the newsletter? Contact Courtney Silver, Secretary (Courtney.silver89@gmail.com)

