



LETTER FROM
CHAIRMAN
ALIREZA
HAGHIGHAT

**GREETINGS FELLOW
GATORS AND FRIENDS!**

The efforts of Nuclear Engineering Education Community with support from NEI and ANS have paid off: Congress appropriated \$15M to the NRC for the enhancement of nuclear engineering and science. We have received awards for young faculty development and graduate fellowships. The young faculty program grant is \$150K per year for three years. This fund has annual matching of \$25k from the College of Engineering and \$25k from the NRE Department. For the fellowship program, we received \$400k to distribute over a four-year period. With this funding, we are planning to provide an average of three awards per year.

On our new initiative on design, licensing and construction of a fully digital control system for the UFTR, we have informed the NRC of our plan. We signed an agreement with AREVA NP Inc. and Siemens Corp. to make a major investment in this endeavor in exchange for future access to the facility and a share in the proceeds of training courses. Mr. Thomas Christopher, president and CEO of AREVA NP, has been instrumental in the formation of this agreement. Again, it is worth noting that this project not only will provide significant resources for the

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AREVA CEO DELIVERS OHANIAN LECTURE

TOM CHRISTOPHER, PRESIDENT & CEO OF AREVA NP INC, HEADQUARTERED IN LYNCHBURG, VA., VISITED NRE IN THE SPRING SEMESTER AND GAVE AN OHANIAN LECTURE SERIES TALK ENTITLED, "THE U.S. NUCLEAR INDUSTRY – LIFE IN THE FAST LANE."

Christopher was invited to give the talk by NRE chair and professor Alireza Haghighat. "Tom Christopher gave UF and NRE students much insight and industry experience and sparked many ideas which we can share," said Professor Haghighat.

Christopher is a graduate of the Naval Academy, with a B.S. in mechanical engineering and an M.S. degree in engineering mechanics from Georgia Tech. He graduated from the Naval Nuclear Program and was a licensed engineering officer of Operating Nuclear Submarines. Christopher earned an M.B.A. from the University of Pittsburgh.

Before joining AREVA, Christopher was most recently the vice president and general manager of the Siemens Westinghouse Power Corporation's Energy Services Divisions, responsible for global service of gas turbine and steam turbine power plants. Prior to that, he served as general manager of the Westinghouse Power Generation



Business Unit's Energy Divisions, a broad-based, fully integrated energy service and systems business with full-scope engineering, maintenance, upgrade, repair and O&M operations spanning six continents.

The Ohanian Lecture Series promotes the exchange of technical information to enhance the knowledge-base of engineering faculty and students.

PROGRESS ENERGY CEO VISITS NRE

Jeff Lyash, president and CEO of Progress Energy Florida, visited the NRE department in February to help kick off UF's Water Institute's symposium. Following the opening ceremony, Lyash came to the Department and talked to students about future challenges in the energy industry and the great need for all kinds of engineers in the field.



Progress Energy is a \$1 million-plus donor and sponsor of UF's Water Institute and has been a generous contributor to NRE over the years.

In 2006, they donated more than \$100,000 toward the department's ADRAD lab, and last year they donated nearly half a million dollars toward a new digital control system for UF's training reactor.

While at NRE, Lyash heard presentations from faculty. He heard about student successes and scholarships from James Baciak, about site monitoring from Wesley Bolch and about the status of the control room from Glenn Sjoden. He also toured the labs and other areas in the department and had lunch with NRE faculty and students. The luncheon was also attended by Dean Pramod Khargonekar, mechanical and aerospace chair S. Balachandar, civil & coastal chair Kirk Hatfield and mechanical & aerospace professor S. A. Sherif.

UF NRE TO HOST THE 2009 ANS STUDENT CONFERENCE

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TULENKO RETIRES

Professor James S. Tulenko retired this past fall after more than 21 years of service to the Department of Nuclear & Radiological Engineering. Tulenko came to UF in 1986 to become department chair and served in that position until 2001. During that time, NRE grew as a nationally recognized institution and as a center for nuclear-related research in fields such as robotics, imaging and a wide range of medical/industrial applications of radiation.

At UF, Tulenko supervised six Ph.D. and 30 M.S. / M.E. candidates. He also co-chaired one Ph.D. and two M.S. / M.E. candidates.

Tulenko earned a B.A. and an M.A. in applied physics from Harvard College in 1958 and 1960, respectively, an M.S. in nuclear engineering from MIT in 1963, and an M.E.A. from George Washington University in 1980. He completed coursework and qualifying exams for an Sc.D. from Columbia University in 1970.

Before coming to UF, Tulenko served as manager of physics, manager of nuclear fuel engineering and manager of quality and technology for Babcock & Wilcox, where he was involved in the design and startup of all the current-generation B&W reactors.

Tulenko authored chapters in three books dealing with nuclear energy and robotics. He is the author and co-author of more than 100 refereed publications in the area of nuclear engineering science.

Tulenko is a fellow of the American Nuclear Society and has served as an ANS board member, president and vice president. He is currently a commissioner of the Applied Science Accreditation Commission and is a member of the Independent Review Committee for the Global Nuclear Energy Program. He was a member of the National Nuclear Accrediting Board, the University of California Review Board for the Decision Sciences Division of Los Alamos National Laboratory, chairman of the University of Chicago Review Board for the Chemical Technology Division of Argonne National Laboratory, and a past commissioner of the Engineering Accreditation Commission. Throughout his years at UF, Tulenko won numerous awards, including the ANS 25th Anniversary Award for outstanding contributions to the Nuclear Fuel Cycle, the ANS Mishima Award, the ASEE Glenn Murphy Award and the ANS Arthur Holly Compton Award.

Tulenko was awarded the rank of emeritus professor and plans to continue his association with the department, working on his existing research projects in nuclear fuel and robotics.



END OF AN ERA

FROM HUMBLE BEGINNINGS IN THE MIDWEST, TO ENGINEERING THE HOOVER DAM, TO BECOMING CHIEF ENGINEER FOR BABCOCK & WILCOX, TO JOINING THE FLEDGLING UF NUCLEAR ENGINEERING DEPARTMENT IN 1957, GLEN SCHOESSOW EXCELLED AT PROBLEM-SOLVING.

He always found ways to make things better and taught others using his superior skills and abilities. In tribute, department professor and ex-NRE chairman James Tulenko said, “Glen Schoessow was one of the outstanding mechanical engineers of his time.”

Born in the small farming community of Chafee, N.D., Schoessow was paired with his older brother in grade and high school, where they foot-raced to school in the winter to keep from getting too cold. Schoessow’s father ran a repair shop where he and his brother learned mechanics and the hard work ethic. He earned his first degree at North Dakota State in mechanical engineering. His first job in the 1930s was with the Babcock & Wilcox Co. in Ohio, and Schoessow eventually built a 27-year-career with the boiler and engineering firm.

Along the way, he had one-of-a-kind experiences building the Hoover Dam, working with Admiral Hyman Rickover to design the first generation of navy nuclear reactors and assisting NASA with its early rocket engines. Schoessow made the first measurement of the triple point of graphite up to 1,000 atmospheres, which was important research for NASA. At UF, Schoessow taught many of the department’s current faculty and even former Nuclear Regulatory Commission chair Nils Diaz.

He was a registered Professional Engineer in the states of Arizona, Florida, Georgia, Mississippi and Ohio. In 1985, in recognition of his outstanding mechanical engineering achievements, he was made a Fellow of the American Mechanical Engineering Society. In 1986 he was awarded a Special Achievement award by the American Nuclear Society, and in 1988 was awarded an honorary doctorate



DR. GLEN J. SCHOESSOW PASSED AWAY ONE YEAR AGO THIS OCTOBER AT THE AGE OF 97.

by North Dakota State University in recognition of his outstanding career achievements.

In a memo to staff and faculty, department chair Alireza Haghghat said, “Glen was an outstanding engineer who always was involved in cutting-edge activities, from design and construction of the Hoover Dam to design and construction of nuclear reactors. I always enjoyed Glen’s sense of humor and listening to stories of his experiences. Glen was a strong supporter of the department, and to that effect established the Glen Schoessow Scholarship, which has been awarded to several outstanding students... it has been a privilege and honor to have known Glen Schoessow.”

Schoessow was the originator of many patents dealing with steam and nuclear power. He leaves behind a brother, two sons, a daughter, four grandchildren and nine great-grandchildren. A tribute to his life was recorded and played on UF radio station WRUF-AM.

Schoessow worked in his laboratory at the University on a daily basis almost until he was 96. “He will be greatly missed at the University and by all who knew and loved him,” said Professor James Tulenko.

PROFESSOR SAMIM ANGHAIE continues to serve as the chairman of the Scientific Advisory Board for the Paul Scherrer Institut LTH, Switzerland. He was selected as the chairman of the Technical Advisory Board for the newly formed Norwegian organization, Thor Energy, which develops nuclear power infrastructure and building of multiple units of large-size nuclear power plants based on thorium fuel cycle in Norway. Anghaie serves as a member of the National Research Council Committee on Radiation Shielding for Space Exploration that published its landmark report entitled, "Managing Space Radiation Risk in the New Era of Space Exploration." He also serves as a member of the Council on Space Nuclear Research for the Universities Space Research Association and as a member of the Advisory Committee of the Center of Excellence for Innovative Nuclear Energy Systems, Tokyo Institute of Technology, Japan. Anghaie is also the publication editor and member of Steering Committee and Technical Program Committee for the 2008 International Congress on Advances in Nuclear Power Plants and 2008 International LWR Fuel Performance Meeting. Anghaie is the U.S. honorary chairman of the 2008 Water Reactor Fuel Performance Meeting held Oct. 19-23 in Seoul, Korea. He edited two conference proceedings volumes, and he and his students published four journal articles and presented and published 12 peer reviewed technical papers at national and international conferences and meetings. Anghaie supervised 17 graduate students and 12 undergraduate students including: Anne Charneau and Michael Fensin (both graduated with Ph.D.s), Brian Triplett, Brett Dooies, Brandon Cunningham, Mike Schoenfeld, Omar Mireles, and Bobby Ahmed (all graduated with M.S. degrees and continued for Ph.D.s), Alexander Restrepo and Alejandro Chomat (both graduated with M.S. degrees and left UF to work for FPL), Michael Liesenfelt, William Ivans, Brett Rampal, Chris Perfetti, Lauren Nalepa, Arlo Swallow, and Hong-Chan Wei (currently working on their Ph.D. and M.S. research projects), Koroush Shirvan, Aaron Wysocki, Jacob DeWitte, Daniel Bacon, Andrew Hall, Thomas Roomy, Michael Rose, Kristin Withlow, Jellieth Cardona, Anthony Hardy, Matthew Marzano and Sandor Valenciaga.

ASSISTANT PROFESSOR JAMES BACIAK and his students have been presenting their work on advanced radiation detection instrumentation at a variety of conferences. In the past year, they have presented at the IEEE Nuclear Science Symposium, ANS winter and summer conferences, the Symposium on Radiation Measurements and Applications (SORMA), AAPM Annual Meeting and SPIE Defense and Security Conference. Baciak gave a presentation at the 2008 ANS Student Conference at Texas A&M University, and a symposium lecture at Kansas State University on his group's research. Baciak and his students published articles in Nuclear Technology, IEEE Transactions on Nuclear Science, Nuclear Instruments and Methods in Physics Research – as well as a variety of conference proceedings. Yuxin Feng, one of Baciak's students, received special mention from the Institute of Physics, Physics in Medicine and Biology (medicalphysicsweb.org), for research in tracking gamma-rays

in proton therapy to verify radiation dose. Baciak shared the 2008 UF ANS Faculty Member of the Year award with Ed Dugan. Baciak is also the faculty adviser for UF's student section of the American Nuclear Society, which will be hosting the 2009 ANS Student Conference.

PROFESSOR WESLEY BOLCH was awarded two grants in fall 2007. The first grant is from the European Union for an international consortium of national laboratories and universities. The SOUL project seeks to establish radiation risks to workers in the Southern Ural Mountains of Russia during the days of Soviet nuclear weapons production. During the late 1940s to early 1960s, a series of large-scale radioactivity releases to the Techa River near the Mayak nuclear weapons plant lead to wide-spread contamination of drinking water to communities on the Techa River downstream from the Mayak plant. On the key radionuclides of concern was Sr-90, and thus one aspect of the SOUL Project is the reconstruction of bone marrow doses to children, pregnant females and the developing embryo/fetus to skeletal uptake on internal radio strontium. Bolch and his students Deanna Pafundi and Matthew Maynard are developing high-resolution anatomic models of the newborn child, the developing embryo/fetus and older children of reference Asian body morphometry with particular emphasis on dose coefficients for skeletal exposures. With the second new grant, Bolch, his post-doctoral research associate Choonsik Lee and medical physics student Justin Hanlon began constructing 3-D anatomic models of the adult eye and head for modeling a

new radiotherapy treatment for age-related macula degeneration. This work is being funded by Oraya Therapeutics Inc., which eventually hopes to market an in-clinic device used by ophthalmologists. The work at UF will form the basis of their applications to the FDA for approval of the new therapy. Bolch won the 2007 College of Engineering Senior International Educator award presented in Dec. 2007. Bolch, as chair of the task group on Dosimetry Calculations (DOCAL) for the International Commission on Radiological Protection (ICRP), organized a meeting of the Task Group in Vienna, Austria in May 2008.

RESEARCH ASSISTANT PROFESSOR REBECCA DETWILER worked with Glenn Sjoden to test and evaluate the algorithm ASEDRA (Advanced Synthetically Enhanced Detector Resolution Algorithm, U.S. Patent 60/971,770; 9/12/2007). ASEDRA, developed at NRE's Florida Institute of Nuclear Detection and Security (FINDS), post-processes lower resolution scintillator detector spectra to render photopeaks with higher accuracy, with no prior knowledge of sources or specific spectrum features. ASEDRA is currently applied to sodium iodide detectors, which are highly robust but have had limited identification capabilities due to poor energy resolution. Detwiler presented the test results of ASEDRA's response to WGPu at the March 2008 SPIE Defense and Security Symposium in a talk that will be published in conference proceedings. Work is underway for further testing of ASEDRA's capabilities. Detwiler is also involved

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PROFESSOR BOLCH WINS SENIOR INTERNATIONAL EDUCATOR AWARD

NRE professor Wesley Bolch received international recognition in the spring when he was selected to receive the 2007 UF Senior International Educator award. Bolch was cited for "...significant contributions to the enhancement of the international reputation and diversity of the NRE Department, the College of Engineering and the University of Florida."

The award recognizes outstanding international endeavors by UF faculty members, which supports the university's goal of internationalizing the campus and curriculum. A UF committee judges this award.

Bolch's nomination was submitted by NRE Chairman Alireza Haghghat, and read, "His work, which is funded by the European Union, is testament to the international recognition of Prof. Bolch. He has done an outstanding job in attracting and supervising several international students from France, Korea and

Sweden, who have worked on their B.S., M.S., and Ph.D. research projects."

Bolch received his Ph.D. at UF and has been teaching in the NRE department since 1988. He is an internationally-recognized expert in the area of radiation dosimetry and serves on the International Commission of Radiological Protection (ICRP). In 2006, he was appointed to the main council of the National Council on Radiological Protection.

Congratulations Professor Bolch!



Professor Wesley Bolch has been with NRE since 1988 and is the director of ALRADS. He is also the Graduate Program and Health Physics Program coordinator.

GRADUATES

SUMMER 2007

B.S.

MELISSA CRAWFORD / UF Graduate School

MIREILLE ROWE / UF Graduate School

M.S.

MATTHEW CRLENJAK / Tallahassee Memorial HealthCare

SIJU GEORGE / Community Cancer Center of North Florida

ERIC LAVIGNE / UF College of Business

LINDSEY LAVOIE / UF Graduate School

STEPHANIE LEON / UF Environmental Health & Safety Div. + UF Graduate School

OMAR MIRELES / UF Graduate School

TRAVIS MOCK / US Air Force Civilian

NISSIA SABRI / UF Graduate School

CARLY WILLIAMS / UF Dept. of Radiology + UF Graduate School

PH.D.

DANIEL SHEDLOCK / NucSafe Inc.

CE YI / UF NRE (Post Doc)

FALL 2007

B.S.

LINDSAY SINCLAIR / UF Graduate School

REGGIE NEREUS / Employment

CHRIS PERFETTI / UF Graduate School

BRETT RAMPAL / UF Graduate School

MICHAEL WAYSON / UF Graduate School

M.S.

THOMAS MOORE / Employment

MIKE SCHOENFELD / UF Graduate School (Ph.D. candidate)

PH.D.

ANNE CHARMEAU / UF INSPI (Post Doc)

BERNOIT DIONNE / Argonne National Lab

SPRING 2008

B.S.

ALYSON CIEPLY / UF Graduate School

JACOB DEWITTE / Graduate School (MIT)

JOHN GEYER / UF Graduate School

TIMOTHY GOEDE / Medical School (U Miami, USF or Wake Forest)

BRETT JACKSON / Graduate School (U Penn)

KOROUGH SHIRVAN / Graduate School (MIT)

M.S.

BOBBY AHMED / UF Graduate School (Ph.D. candidate)

DANIEL LODWICK / UF Medical School

CHRISTOPHER MENG / West Point Academy (Prof. of Physics)

LAURA PADILLA / UF Graduate School (Ph.D. candidate)

ALEX RESTREPO / FPL, Turkey Point Plant

STACEY-ANN STEPHENSON / Undetermined (seeking a residency)

BRIAN STRATMANN / Radiological Physics Consultants (Winston-Salem)

MATT STUDENSKI / UF Graduate School (Ph.D. candidate)

GUANGHUA YAN / UF Graduate School (Ph.D. candidate)

PH.D.

SAM BAYS / Idaho National Lab

MICHAEL FENSIN / Los Alamos National Lab

HOSANG JIN / UF Proton Therapy Institute, Jacksonville

UF NRE TO HOST THE 2009 AMERICAN NUCLEAR SOCIETY STUDENT CONFERENCE

In early spring, the ANS student chapter proudly announced UF was selected to host the 2009 ANS Student Conference. The announcement follows years of attempts to win the venue for the conference in Gainesville.

"This year's presentation to the ANS selection committee was a success as a result of the hard work of our student conference committee," said Jake DeWitte, 2007-2008 president of the ANS Student Chapter. DeWitte, assisted by co-author Brett Dooies, put together

an extensive proposal with efforts by other chapter officers, including vice president of internal affairs Tim Goede and vice president of external affairs Tom Plover.

"This is a very prestigious honor for our student section, our department and our university," said James Baciak, faculty adviser for the student chapter. "It will be the first time UF has hosted the student conference in 12 years," he said.

NRE Chairman Alireza Haghight said, "We should use this opportunity to organize an excellent meeting and to provide an effective discussion on nuclear science and engineering discipline and its applications...with hard work and excellent planning, you were able to overcome strong competition."

"THIS IS A VERY PRESTIGIOUS HONOR FOR OUR STUDENT SECTION, OUR DEPARTMENT AND OUR UNIVERSITY."

2008-2009 STUDENT OFFICERS

PRESIDENT / Christopher Perfetti

VICE PRESIDENT OF INTERNAL AFFAIRS / Badal Juneja

VICE PRESIDENT OF EXTERNAL AFFAIRS / Travis Bennett

TREASURER / Daniel Long

SECRETARY / Nelia Sanchez

EXECUTIVES-AT-LARGE / Brandon Cunningham, Joshua Richard and Mireille Rowe

If you are interested in more information about the 2009 ANS Student Conference or would like to make a donation toward activities at the conference, contact the conference chair, Josh Richard (jgr426@ufl.edu), or the faculty adviser, Jim Baciak (jimmer@ufl.edu).

GRADUATE RECRUITING WEEKEND NETS EIGHT OUT-OF-STATE STUDENTS

In February the department conducted its annual Graduate Recruiting Weekend, which brought 23 prospective students from as far away as Caltech and the University of Michigan to our campus. Of the group, 14 were MP candidates, three were investigating the HP option and five were interested in an advanced NE degree.

Each of the potential grad students had the opportunity to meet with individual faculty members and attend a student mixer, allowing them to talk freely with faculty, staff and other students involved in a similar curriculum. Prospective students also had the opportunity to tour various UF labs and research centers — including the Brain Institute, Cancer Center, INSPI, RDS Lab, PTDC Lab and UFTR.

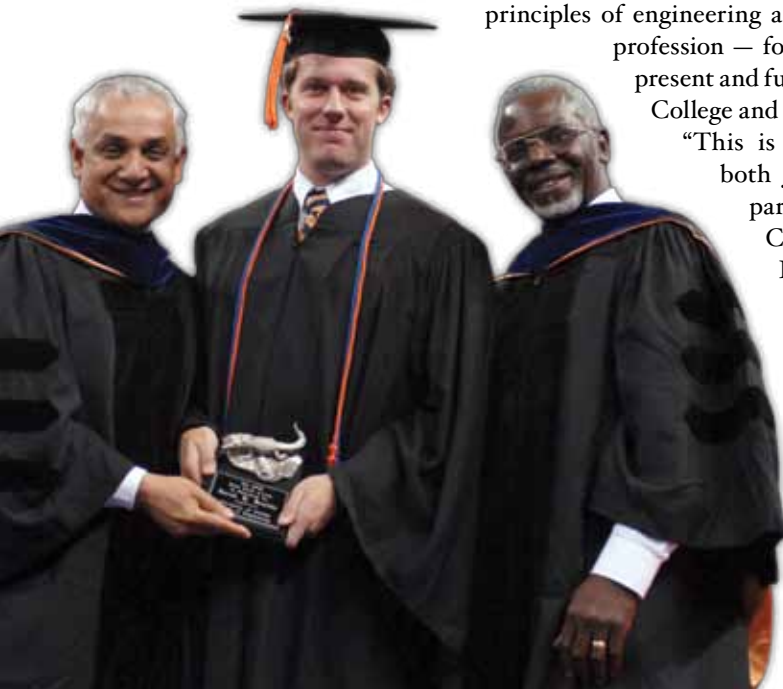
The event also included a College of Engineering dinner at the Touchdown Terrace, followed by a taste of Gainesville nightlife with an NRE student-chaperoned “night on the town.”



NRE STUDENT RECEIVES COLLEGE'S FIRST DEAN EARLE AWARD

Congratulations to Jacob DeWitte, recipient of the Dean Earle award. The Dean Earle award is one of two prestigious awards given to graduating seniors from the College of Engineering, and is given to a student who has continually exhibited outstanding service to the community and university through leadership and dedication to the ideals, ethics and principles of engineering and the engineering profession — for the betterment of present and future students of the College and UF.

“This is a great honor for both Jacob and the department,” said NRE Chairman Alireza Haghghat. “Jacob is the inaugural recipient of the award and was honored at the College’s commencement ceremony in May.”



TWO NRE STUDENTS AWARDED NRC SCHOLARSHIPS In scholarship news, two NRE undergrads won the Nuclear Regulatory Commission Nuclear Scholarship/Fellowship Program award for 2007. Brandon Cunningham and Amrit Patel received scholarships which include internships at the USNRC.

“I was very excited to learn about this opportunity,” said Patel. “I feel that working for the NRC will give me insight into how the nuclear industry is regulated, and also the chance to gain invaluable experience. I will spend at least a year working for the NRC after I graduate. Thank you for this honor.”

The Scholarship and Fellowship Grant Program allows students to pursue an education in science, engineering or other fields determined by the NRC to be critical-skill areas related to its regulatory mission. Fellowship and scholarship recipients are required to enter into an agreement for employment with the NRC for a period equal to one year of service for each full or partial year of academic support. Eligible applicants are from regionally accredited four-year U.S. public and private institutions of higher education.

NRE MEMORIAL SCHOLARSHIPS In December 2007, the James E. Swander Memorial Scholarship was awarded to doctoral student Gabriel Ghita. The Swander scholarship recipient is a graduate student who has excellent academic standing and exhibits the same dedication and altruistic characteristics as Jim Swander during his days in NRE. The Nelson L. Griesheimer Memorial Scholarship is designated to go to a dedicated and hard working undergraduate student majoring in NRE. In March 2008, scholarships went to Nelia Sanchez-Monreal and Kathleen Ryan.

NRE STUDENTS WIN ANS AWARDS The UF Student Design Team — Jacob DeWitte, Timothy Goede, Christopher Perfetti, Thomas Plower and Michael Wayson — won second place in the undergraduate category of this year’s ANS Education & Training Division Student Design Competition for their design and analysis of a molten spent fuel burner reactor. This was a national competition and each team member received an award certificate and recognition at the November ’07 ANS Winter Conference. Congratulations to two NRE graduate students for winning Best Student Paper awards at the ANS Student Conference in Texas in April. Brett Dooies won first place for Graduate Presentation in the Aerospace Nuclear Science & Technology category and Daniel Vega won Outstanding Graduate Presentation in the Materials Science & Technology category.

FISHER GETS FITZGERALD AWARD Medical Physics graduate student Ryan Fisher received the Lawrence T. Fitzgerald award for outstanding student paper at the spring meeting of the Florida American Association of Physicists in Medicine in Orlando. His presentation was entitled, “Image Quality and Dose Trends in Tube-Current Modulated Multi-Detector CT Imaging.” The Fitzgerald Award is named in honor of Dr. Lawrence Fitzgerald in recognition of his lifetime contributions as an educator and mentor in the field of medical physics in the state of Florida.

FINIS SOUTHWORTH ('74, PH.D. - NES) was named chief technology officer at AREVA NP in Lynchburg, Va. During his career, Southworth has been plant manager for FPL and at Lockheed Idaho in the Idaho National Engineering and Environmental Laboratory — where he was manager of the advanced gas reactor fuel development and qualification program. NRE Chair Haghighat offered congratulations and said: "This is a great achievement and recognition of your technical accomplishments." Dr. Haghighat concluded, "Our NRE family is proud of your continued success." Finis.Southworth@areva.com

JIM FULLER ('75, PH.D., '72, M.S. - NE) retired as director of defense of the nuclear non-proliferation programs at the Pacific Northwest National Laboratory in 2003. He and wife Dona bought land in the Horse Heaven Hills of southeast Washington State and built a ranch in Kennewick. He consults on nuclear projects, most notably the U.S.-Russian Warhead Safety and Security Exchange agreement where they work on ways to (someday) account for and monitor the dismantlement of nuclear inventories. Fuller became an affiliate professor and visiting committee member at the University of Washington, in the Henry M. Jackson School of International Studies, where he teaches a course on the technical dimensions of weapons of mass destruction to seniors and grad students who plan to go on to a career in international security. Recently, he was asked to be on a U.S. National Academies-Russian Academy of Science joint committee exploring the U.S. / Russian nuclear security environment by 2015. "I guess you could say I am keeping busy," he said. jfuller@owt.com

GLEN WATFORD ('79, B.S. - NE) is vice president, Modification Services, for GE-Hitachi Nuclear Energy in Wilmington, N.C. Last fall, Watford traveled to Gainesville to give a presentation entitled, "Nuclear Energy, A Bright Future: A GE-Hitachi Perspective." Watford received his master's in M.E. from the UCal-Berkeley and joined GE on the Edison Engineering Program. He has contributed in various fuel, engineering, sales and services roles in the nuclear business for 28 years with GE. "We are also seeing a trend in improved public support for nuclear energy and its role as part of our overall energy strategy," he said. glen.watford@ge.com

KEVIN HOSKINS ('82, B.S. - NE) is an independent consultant working from home in Pittsburgh for Mitsubishi Heavy Industries, the "Westinghouse" of Japan. MHI has a "letter of intent" for a couple of new APWR plants in Texas (Luminance) and he's helping them with licensing. "I have actually taught high school Honors and AP Physics for four years, partly as 'purgatory' for torturing my science teachers," said Hoskins. physicsmisterh@aol.com

MICHAEL TUCCI ('86, B.S. - NES) works for Tri-State Generation & Transmission in Craig, Colo. Tri-State is a wholesale electric power supplier which is owned by the 44 electric cooperatives. The association generates and transports power to its members in a 250,000-square-mile service territory in Colorado, Nebraska, New Mexico and Wyoming. mtucci@tristategt.org

PARHAM ALAEI ('92, M.S. - MP) is an associate professor in Therapeutic Radiology - Radiation Oncology at the University of Minnesota. Alaei received his Ph.D. in Biophysical Sciences and Medical Physics at the University of Minnesota in August 2000. He is certified by the American Board of Radiology (Therapeutic Radiological Physics) and is a member of AAPM and the American Society for Therapeutic Radiology and Oncology. <http://www.tc.umn.edu/~alaei001/>

BRIAN C. ANDERSON ('96, B.S. - NES) "After graduation, I spent more than seven years in the Nuclear Submarine Force," said Anderson. "Including a year of nuclear power and submarine officer training, three years of service on submarine in Washington state and three years in Naples, Italy, planning and coordinating submarine operations in the Mediterranean Sea." After the Navy, Anderson started at the NRC, working as a project engineer in the NRC's regional office in Atlanta, and was posted to the Vogtle Electric Generating Plant in Waynesboro, Ga. "I recently transferred to NRC headquarters and am working in the Office of New Reactors. I'm already enjoying the DC area very much." bca1@nrc.gov

TRAVIS KNIGHT ('00, PH.D., '95, M.S., '94 B.S. - NES) visited NRE in the fall and gave a lecture entitled, "Advanced Gas-Cooled Reactor Fuels," which was heavily attended by faculty and students. Knight has been an assistant professor in the Mechanical Engineering Department at the University of South Carolina since 2004 and teaches in a graduate nuclear engineering program for both on-campus and distance education students. As a veteran of INSPI research, Knight conducts research on advanced coated particle fuels and high temperature fuels for full actinide recycling and research on advanced fuel cycles and reactor designs, including gas-cooled fast reactor. He is responsible for program development and representation on various boards and committees including NEDHO, INIE and SUNRISE. Knight's research interests include advanced nuclear fuels and materials, reactor design, advanced fuel cycles, space nuclear power and propulsion and application of nuclear power in future energy economies for sustainability - including the production of hydrogen from nuclear energy. twknight@sc.edu

ALYSON LACEY ('01 M.S., '96 B.S. - NE) after graduation, went to work for Entergy Corp at River Bend Nuclear Station. In 2006, Lacey left Entergy to pursue a career at Dow Chemical as a project engineer. She was recently promoted to operations leader of the Energy and Environmental Operations group at St. Charles Operations in Hahnville, La. Lacey and her husband, Cleve Coates, are proud parents of baby girl, Lacey Lynn Coates, born in June 2007. Alyson, Cleve, and half-brother Cody are thrilled with the new addition. The Coates family is in the process of moving from Zachary to Prairieville, La. alacey2@cox.net.

KEN ALLEN ('03, M.S. - NE) received notice in March that he is the newest member of West Point's tenured faculty. Allen went straight from UF to West Point in 2004, and he's been teaching ever since. Allen is a senior nuclear engineer and now a major at the Armed Forces Radiobiology Research Institute. Allen@afri.usuhs.mil

KEITH BENTLEY ('04, M.S., '02, B.S. - NE) is an engineer for GE Global Nuclear Fuel in Wilmington, N.C. Bentley visited the department in September 2007 to give a student seminar entitled, "Core & Fuel Design Challenges for ESBWR." The ESBWR is GE's latest reactor design, called the Economic Simplified Boiling Water Reactor. He addressed the inherent features and challenges of producing the design, ranging from safety to operations. It was agreed he gave an interesting and well-attended talk, albeit partially because he bought pizzas! GE Global is a joint venture of GE, Toshiba and Hitachi. Keith.Bentley@gnl.com

EUN YOUNG HAN ('04, PH.D. - MP) is a medical physicist at the Berkshire Medical Center in Massachusetts. eyhan@bhs1.org

JIM BRINDLE ('05, PH.D. - MP) and wife, Allison, had their first baby last year. Aidan James Brindle was born July 31, 2007, weighing 8 lbs 8 oz and 21 was inches long. "Allison and the little guy are doing well. He is the boss of the house and his 'plumbing' works great - he's hit his father numerous times already." Outside of being a little tired, Brindle said things couldn't be better. "Life in Cleveland is going well," said Brindle. Allison Brindle is a graduate of UF's Medical College. jim.brindle@gmail.com

CINDY FUNG ('06, M.S. - NE) is working for GE Nuclear Energy and says, "I love it!" Fung is in the Edison Engineering Development Program, which takes engineers and grooms them at various positions to develop the engineering leaders of tomorrow. She was visiting NRE in September 2007 as an interviewer for their recruiting program. She is assigned to UF, among other universities. cfungp@yahoo.com

TAYLOR A. MOULTON ('06, M.S. - NES) now lives in Cambridge, Mass. and is in his second year of grad school at MIT. Moulton says she wears plenty of Gator apparel around campus and to all the ANS meetings. taylormoulton@gmail.com

GIANLUCA LONGONI ('04, PH.D. - NE)

Longoni is principal engineer of the BWR Advanced Acoustics and Structural Load Analysis group at Westinghouse. He reports that he won the prestigious 2007 company-level George Westinghouse Signature award on the development and application of high performance computing methods on multiple disciplines throughout the organization. This award is usually conferred to "groups of people" who contribute innovative projects. The award represents world-wide recognition throughout Westinghouse. Longoni received the award personally from Westinghouse's CEO Steve Tritch. The specifics of this work involved the demonstration of the capabilities of a computer cluster for computationally large problems. The idea was well-received and Westinghouse will move toward these types of platforms and methods. Also, Longoni was selected as a fellow for the 2008 World Nuclear University Summer Institute in Ottawa, Canada.



"The selection involves 100 candidates from all over the world and I was picked within Westinghouse with another person from the World Nuclear University to participate," he said.

////////////////////////////////////
For more information...
www.world-nuclear-university.org
longong@westinghouse.com

MEMORIES

of DR. ALAN JACOBS

By niece Sharon N. Jacobs

PROFESSOR ALAN JACOBS WAS MY UNCLE. HE WAS ONE OF MY FAVORITE PEOPLE AND PERHAPS MY EARLIEST AND MOST IMPORTANT ROLE MODEL.

My first memory of Uncle Alan was when I was 6 years old. My father had taken our family to visit his brother and to meet our cousins. At the time, almost 50 years ago, we lived in California while Uncle Alan and his family lived in State College, Penn., where he was a physics professor at Penn State.

We loved meeting our extended family and seeing such a different part of the country. However, my most distinct memories of the trip are of Dr. Jacobs, the physicist and teacher. He seemed to never pass up an opportunity to teach physics, no matter what the age or background of the audience.

So here I was, 6 years old, and Uncle Alan was taking me to visit the nuclear reactor used for research at the university. He took me to the Nuclear Physics Department, signed me in and procured the requisite radiation-detection badge. We proceeded to visit the reactor, as he carried on a lively explanation for everything I asked – and, as a curious 6-year-old, I asked a lot of questions.

Amazingly, he managed to answer every question in terms a 6-year-old could understand. Of course, like any kid, I wanted to dip my fingers into the water surrounding the reactor. He patiently explained that the cooling water was slightly radioactive and I should not touch it. After leaving the reactor room, I asked him whether the radioactive water was dangerous. His reply was that it could be, if not properly and safely managed.

He went on to explain with his usual enthusiasm that many things useful to this world would be developed by understanding and doing research in nuclear physics – and subsequent decades have borne out his confidence.

I am one of thousands who have personally benefited from some of the medical applications that resulted from research carried out by my Uncle Alan and his colleagues and students.

The August 2007 edition of this newsletter described some of the applications and devices invented using technology such as backscatter imaging. Over the past few years, Uncle Alan told me about applications



such as the improvements to MRI medical equipment, instruments used to search for flaws in the thermal insulation on the external fuel tank for the NASA Space Shuttle and the development of equipment used to search for unexploded ordnance in past and current war zones.

Looking back almost 50 years later, I appreciate him even more. Both

my brother and I were physics majors as undergraduates in college, undoubtedly influenced by our memories of Uncle Alan and the excitement he showed when he talked about physics. I subsequently went into geophysics and a job in industry, while my brother continues a successful career in applied physics research.

Both of us would visit our uncle whenever we could, whether on business trips or family vacations. Most recently, I visited him in Florida while on an extended sailing trip along the East Coast with my husband and children. Once again, he regaled us with engaging stories about his research, from imaging technology to the detection and disarming of land mines.

Dr. Alan Jacobs, my Uncle Alan, is very sorely missed. His absence represents a great loss, not only to our family, but to his students and colleagues past and present – from the youngest child to new graduate students to his peers at the highest levels of physics research and applications.

SO HERE I WAS, 6 YEARS OLD, AND UNCLE ALAN WAS TAKING ME TO VISIT THE NUCLEAR REACTOR USED FOR RESEARCH AT THE UNIVERSITY.

ALAN JACOBS MEMORIAL FUND FORMED

The word went out and contributions came in. Before long, the Alan Jacobs Memorial Endowment Fund was established by friends and family members to honor the memory of professor Alan Jacobs, who died in the summer of 2007. A significant contribution came from Alan's brother, S. Lawrence Jacobs of Pacific Palisades, Calif.

Jacobs' widow, Sharon, contacted members of the Jacobs family to start a memorial endowment.

"Mrs. Jacobs wanted a special memorial to the memory of Dr. Alan Jacobs," said NRE professor and Jacobs family friend Samim Anghaie.

Undergraduate and graduate students soon will be able to receive scholarships in Jacobs' honor.

Jacobs was the chairman of NRE from 1980 to 1982. He was an NRE faculty member for 23 years and supervised nearly 100 graduate students. Jacobs held eight U.S. patents and helped design and develop innovative machines for the U.S. Army and NASA using Compton backscatter imaging.

Fund administrator for the endowment is Samim Anghaie. Anyone who wants to contribute to the fund should direct inquiries to Becky Hoover, director of development, at 352-392-6795 or bhoov@eng.ufl.edu.

CONDOLENCES

We extend our heartfelt sympathies to NRE Professor Emeritus Dr. William Ellis on the recent passing of his wife, Verna Ann Ellis. A beautiful lady, she is remembered and missed by family and friends. The Ellises were married for 58 years and had three sons and four grandchildren – a wonderful legacy of love.

in an NNSA project to conduct blind testing of ASEDRA's performance compared to that of GADRAS, a post-processing code developed by Sandia National Laboratory.

ASSOCIATE PROFESSOR EDWARD DUGAN continued successful research on backscatter X-ray radiographic (BSX) imaging techniques applied to non-destructive examination. Students working on the project include Nissia Sabri, Chris Meng, Olivier Bougeant and Kara Beharry. The BSX imaging effort has culminated in five patents over the past four years with two additional patent applications submitted in April 2008 by the UF Office of Technology Licensing. NuSAFE, Inc. in Oak Ridge, Tenn. has obtained licensing rights for five of the patents, including the two just applied for. NuSAFE is commercially marketing and manufacturing BSX systems while UF continues to do R&D on X-ray backscatter to construct novel prototype systems. BSX scanner systems built for Lockheed Martin Space Systems Co. continue to be used to inspect the foam thermal insulation on the NASA Space Shuttle external fuel tanks for flaws at the Michoud Assembly Facility in New Orleans. The Marshall Space Flight Center in Huntsville, Ala. also has one of these scanners as well as another specialized X-ray backscatter system built with assistance from UF. The Kennedy Space Center also has a BSX scanner built by UF. KSC has had great success with their BSX system in looking at RTV voids in-between PICA tiles on a mockup of the heat shield for the new Orion spacecraft, and they are looking to obtain a newer version of the system. Likewise, MSFC is looking at using the newer, faster BSX models on the foam thermal insulation of the ARES I Upper Stage. The application of BSX to the detection of flaws, defects and corrosion is of interest to aerospace companies, NASA and the Air Force. In addition to the work for Lockheed and NASA, work has also been done, and is ongoing, with Boeing. Dugan gave three invited presentations this past year on Backscatter X-ray Imaging: the second annual Computed Radiography Conference, June 2007, Ponte Vedra Beach, FL; the 55th Defense Working Group Meeting on Non-Destructive Testing, November 2007, Fort Walton Beach, FL; and the American Society for Nondestructive Testing Fall Conference, Nov. 2007, Las Vegas.

ASSOCIATE PROFESSOR DAVID GILLAND is a joint faculty member in the J. Crayton Pruitt Family Department of Biomedical Engineering at UF. During the past year he had two peer-reviewed publications, five conference proceedings papers and six presentations at international or national meetings. He gave two invited talks last fall — one to General Electric Global Research in New York and the other to the American Association of Physicists in Medicine, Fla. chapter. As principal investigator on two long-term research projects, Gilland completed work on the National Institutes of Health grant for gated cardiac ECT, as work progressed on a high resolution gamma camera under a DOD Army grant. Gilland currently has two

Ph.D. students. One of the students, Jason Parker, was awarded second place in the Society of Nuclear Medicine's Young Investigators competition. There were approximately 200 abstracts submitted internationally for this award.

PROFESSOR ALIREZA HAGHIGHAT and his graduate students, University of Florida Transport Theory Group, have been engaged in the development of particle transport methods, reactor physics and high performance computing, characterization and redesign of the UFTR access ports, design and licensing of a fully digital control system for the UFTR, and design of advanced detection systems. Within this group of doctoral and master's students, Benoit Dionne completed his Ph.D. dissertation on development of the ADIES (Adjoint Driven Importance Electron-photon Sampling) code system for variance reduction of coupled electron-photon-positron simulation; Ce Yi completed his Ph.D. dissertation on development of the TITAN 3-D transport code based on a block-oriented hybrid discrete ordinates (Sn) and characteristics methods; and Ph.D. candidate Michael Wenner completed development of new algorithms for diagnosis of convergence of source in an eigenvalue Monte Carlo calculation. Colleen Polit is completing her M.S. thesis on characterization and redesign of the UFTR thermal column. Colleen Polit and Haghighat presented a poster on this topic at the International Symposium on Reactor Dosimetry (ISR-13) that received a Best Poster award. Amrit Patel is working on his M.S. thesis on the characterization of the UFTR water shield tank for design of a submerged detection system for spent fuel burnup reconstruction; Romel Franca is working on his M.S. thesis on characterization of the UFTR beam ports; William Walters has started working on his M.S. thesis — a new project on the design of a special detection system for a spent fuel pool on which Michael Wenner has been assisting; Jangyong Huh is completing his M.S. thesis on development of an unfolding algorithm for a BGO detector with James Baciak as co-advisor; and Katherine Keller has started working on her M.S. thesis on a project related SPECT and Ce Yi is assisting on this project. Finally, Haghighat is leading a major project on design, licensing and construction of a fully digital control system for the UFTR. Currently, James Baciak, Glenn Sjoden and Ce Yi and Senior Reactor Operator Matthew Berglund are assisting with the initial phases of this project.

ASSOCIATE PROFESSOR DAVID HINTENLANG was selected as a Fellow of the American College of Medical Physics in March 2008. Fellows are elected by the board on the basis of an outstanding professional reputation among colleagues, and are judged as a result of many years of superior performance. The award was made in the spring at the American College of Medical Physicists' (ACMP) annual meeting in Seattle. Hintenlang participated in the International Medical Physicists Symposium sponsored by ACMP, focusing on developing education and accreditation requirements for medical physicists in Latin America and Pacific

Rim countries. He met with representatives of Tokyo Metropolitan University to discuss the development of graduate medical physics programs. His student, Ryan Fisher was awarded the Lawrence T. Fitzgerald award for outstanding student paper at the Florida AAPM in March for his presentation entitled, "Image quality and dose trends in tube-current modulated multi-detector CT imaging."

ASSOCIATE PROFESSOR GLENN SJODEN continues to expand his research in the areas of numerical transport theory, SNM detection, detector and algorithm development, reactor physics and burnup solver development and computational medical physics simulations. A new research project related to nuclear forensics and heat transfer has also begun. Two of Sjoden's Ph.D. students just completed their degrees (Gabriel Ghita in Nuclear Engineering and Ahmad Al-Basheer in Computational Medical Physics, both in summer 2008). Also, four of Dr. Sjoden's M.S. graduates completed degrees in Nuclear Engineering (two in summer 2007 and two in summer 2008). Ghita produced a novel method of simulating the neutron spectral signatures from a large mass of weapons plutonium using only 15g of plutonium in a PuBe capsule, and profiling, via simulation, the limits of neutron spectroscopy using He-3 gas proportional detectors, with laboratory validation. Al-Basheer developed a method that enables one to use only a single discrete ordinates photon simulation in a 3-D human phantom, coupled with pre-computed Monte Carlo electron dose kernels (EDKs) to attribute the true whole body dose with high accuracy for high-energy external photon beam therapy dose assessments. M.S. degrees were also highly successful: Eric Lavigne, Sjoden and research collaborators Baciak and Detwiler, developed ASEDRA for scintillator spectra post processing — which is now being tested at UF (in the blind) in a cooperative research contract with Sandia National Laboratories. Travis Mock and Kevin Manalo also earned M.S. degrees based on work supporting and development of tools and methods for nuclear fuel burnup computation work using PENBURN, enabling 3-D fuel burnup simulations. For her M.S. work, Spring Cornelison profiled — via computation — emissions from the University of Florida Training Reactor, and demonstrated that maximum concentrations of Ar-41 are within licensing constraints. Her work was a critical component in a submission to NRC in support of a license renewal for the UFTR. Sjoden is also continuing his efforts to reach out to industry to promote new research as part of his charge as the Florida Power & Light Endowed Term Professor for 2007-2010. New research and testing is anticipated in Fall 2008 with corporate sponsors as a result of his efforts. Moreover, Sjoden and three of his graduate students will present papers on deterministic fuel burnup simulation methods at PHYSOR 2008 in Interlaken, Switzerland. Over the past year, Sjoden has continued in an advisory role to the NNSA and the Departments of Energy, Defense and Homeland Security on national scientific advisory panels. Four new students are expected to begin this fall semester.

PRESENTATION OF FIRST TONY STELL AWARD

Tony Stell was a Ph.D. student in NRE's medical physics program. He passed away suddenly last spring after a brief bout with lymphatic cancer. In the spirit of Tony's dreams yet unfulfilled, a memorial scholarship was established.

Seven members of the Stell family came to NRE's annual holiday party and witnessed the awarding of the First Anthony Stell award. "This was an emotional moment for the Stell family," said Bob Fitzpatrick, "but this award will go a long way to help heal our hearts."

The Anthony Stell Memorial award is awarded to benefit a University of Florida graduate student in Nuclear & Radiological Engineering in the Medical Physics program who best exemplifies the character and dedication of Anthony M. Stell.

The first award was presented to medical physics student Monica Ghita, who was selected by the award committee as having both the attitude and academic accomplishments seen as parallel to the late Tony Stell. Tony's mother made the award presentation. At its conclusion, a memorial plaque was given to the family along with a framed outline for the award's criteria.

Members of the Stell family who came from New York in December were mother Gina Stell, Bob and Lucy Fitzpatrick (uncle and aunt of Tony Stell), Steve Stell (Tony's brother) and cousins Bobby and Julie Fitzpatrick. Also present was Tony Stell's girlfriend, Maryanne Rivers.

**THIS AWARD
WILL GO A
LONG WAY
TO HELP
HEAL OUR
HEARTS**



The first Anthony Stell award was presented to Monica Ghita on Dec. 13, 2007, by Tony Stell's mother, Gina.

CHAIR'S LETTER *continued from page 1*

training of highly qualified graduates in the area of digital instrumentation and control (I&C), but also can potentially assist the industry and the NRC in overcoming issues which have blocked licensing of the fully digital control systems.

To be able to accomplish the major goals of the above project, we have created three new positions for the UFTR: reactor manager, maintenance and operations officer, and analysis and modeling officer. We have already filled all of the positions. All the new personnel have become heavily involved in different aspects of the control system project. Professors Baciak and Sjoden are providing assistance in the areas of hardware and software, respectively.

Within the department, we are going through significant changes. Professor James Tulenko retired in December 2007 after 21 years of service and Professor Sanjiv Samant decided to move his appointment to the Radiation Oncology Department. Sanjiv will continue his association with the NRE Department by engaging in collaborative research and supervision of graduate students. As a result, we currently have three open positions including one new faculty position. Further information on the ongoing faculty searches is available on our Web site at www.nre.ufl.edu.

More recently, Dr. William Vernetson retired in October after 30 years of service to the NRE Department — specifically the UFTR. Meanwhile, at the request of Dean Khargonekar, I have agreed to serve as interim director of the UFTR.

If you are interested in any of the above activities, or have any suggestions, please contact me at haghighat@ufl.edu. Also, please visit our Web site and register so that we can inform you of our future activities.

I seek your support and advice and look forward to seeing you on campus or at professional meetings.

Warmest regards,

A handwritten signature in black ink, appearing to read "Amir Haghighat". The signature is written in a cursive style.

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On Sept. 5, we signed an agreement with AREVA NP Inc. and Siemens Corp. on the **UFTR DIGITAL CONTROL SYSTEM UPGRADE PROJECT**. Both organizations have agreed to provide safety and non-safety digital systems without any charge plus engineering support on design, licensing and construction of a one-of-a-kind, fully digital control system.



We are planning celebrations of the **50TH ANNIVERSARY OF THE NRE DEPARTMENT AND 100TH ANNIVERSARY OF THE COLLEGE OF ENGINEERING**. Special activities will be held throughout 2009 and 2010. Please let us know if you are interested in becoming a member of an organization committee. Prof. Dugan is the faculty coordinator for this activity.
edugan@ufl.edu

Also, watch the College's Web site for information on how you can share your stories and photos.
www.eng.ufl.edu

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