

The Newsletter of the Department of Nuclear Engineering

Gamma Gazette[®]

University of Missouri-Rolla • Missouri's Technological University

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Gamma Gazette

Welcome to the second issue of our newsletter, the *Gamma Gazette*. Last year we changed the newsletter format to improve our communication with our alumni and friends who are interested in the Nuclear Engineering department at UMR. As you read the following pages, you can see the exciting things which have happened in our department in the last year.

We still hope to increase the number of newsletters to two per year and are requesting your help. Please send us any comments or suggestions about the newsletter.

We would also like for all our alumni to send us any information (including pictures) which we can share. And always, if you are in the neighborhood please stop by and just say Hello!

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Students Receive NANT Scholarships



National Academy for Nuclear Training Scholarships (NANT) are awarded to college students who have demonstrated outstanding academic achievement and who are interested in pursuing careers in the nuclear power industry. For the 1997-98 academic year, 42 new scholarships of \$2,500 have been awarded nationwide to nuclear engineering students. Four students, shown above, in the Nuclear Engineering department at UMR have received NANT scholarships. The students include two sophomores, Veronica L. McAffrey (left center) and Joseph F. Schmidberger (left), and two seniors, Jeremy A. Christian (right center) and Michael A. Smith (right). The department congratulates these students for their outstanding achievements.

Illinois Power Scholars

Veronica L. McAffrey and Erik F. Shores have been selected to receive Illinois Power Scholarships. In 1996 Illinois Power Co. established a scholarship program for students in the Nuclear Engineering department.

Phonathon

Our annual Phonathon is scheduled for October 5-9, 1997. Students will be contacting you during that period. Your contributions allow us to help our students with the costs of attending UMR and greatly aid our recruitment efforts. We look forward to talking to you!

MORE TO COME



Message from the Chairman

This has been a very busy year for the department. Again, with the help of Union Electric Company, we have been the recipient of \$20,000 for Undergraduate Scholarships from the Department of Energy. These funds, along with the gifts received from alumni, help us recruit and retain high quality students in our program. At the present time, the number of students supported by these funds stands at about 35. We also made significant progress in upgrading some of our Reactor Laboratory equipment. Funds for this upgrade were obtained from the State of Missouri Laboratory Equipment Grant. Next year, the department may receive additional funds for the upgrade of our laboratories. These funds, however, will come at a price, namely a 25% match. Hopefully, the match will be made up by contributions from alumni and friends of the department.

This past summer, our students were very successful in finding nuclear industry employment. Our special thanks to the two members of the nuclear engineering development board, namely Dr. Gerald Schlapper of Los Alamos National Laboratory and Dr. Starnes Walker of CF Systems Corporation in Denver, who helped our students.

We are always looking for enthusiastic friends and alumni who would like to serve on the department's development board which serves as an official advisory council to the department. Our newest member of the board is Mr. Omar Aguilar, '85, '86, of Coopers & Lybrand Consulting in Philadelphia. If you would like information regarding our development board, please let us know.

We welcome Estel Beresford, our new Senior Secretary for Nuclear Engineering as of September 2nd. Estel and her family moved to Rolla, from their home of 23+ years in the Seattle area, a year ago. Estel has many years of computer and office management experience, is an accomplished musician, along with other creative interests.

Your advice and support is greatly appreciated. Please feel free to call me at (573) 341-4747 or e-mail at kumar@umr.edu.

Thank you very much for your continued support of our program. With best wishes from the department...

Arvind Kumar, Chairman

1997 ANS Midwest Regional Student Conference

The American Nuclear Society (ANS) 1997 Midwest Regional student conference took place on March 27-29, 1997 at the University of Missouri-Rolla (UMR). The theme for the conference was "*Advanced Reactor Designs: Re-engineering Our Future*". This topic was chosen to build the conference around presentations from industry representatives discussing the Advanced Boiling Water Reactor (ABWR), the AP600, the System 80+ and the Gas Turbine Modular Helium Reactor (GTMHR). The conference co-chairmen, Ken Erwin and Erik Shores, were successful in attracting speakers such as Dr. Jack Robinson from Black & Veatch, Steve Kerch from Westinghouse, Malcolm LaBar from General Atomics and Jim Robertson from ABB/Combustion Engineering. In addition, a UMR alumnus from Los Alamos National Laboratory, Dr. Phil Ferguson, was asked to make a presentation on particle accelerators and the keynote speaker was Dr. Alan Waltar, past American Nuclear Society (ANS) president who spoke on "*Nuclear Technology: Is There a Future?*".

Throughout the student conference, a Department of Energy (DOE) working model of the AP600 was on display and Jim Mulkey from DOE gave presentations and addressed questions about the AP600. The

AP600 was developed in cooperation with the DOE and the Electric Power Research Institute (EPRI). The AP600 will be able to provide safe, clean, economical power in a growing world energy market.

Over 100 people attended the conference which included 8 industry speakers, 41 nuclear engineering students from UMR and 39 nuclear engineering students from other universities such as Ohio State, Purdue, Texas A&M, Oregon State, University of Missouri-Columbia, University of Texas-Austin, Kansas State, University of Michigan and the University of Cincinnati.

Over 30 technical presentations were made by the students throughout two days of the conference. The areas of the technical sessions included: applications of radiation and radioisotopes; dose calculations and health physics; radioactive waste; heat transfer and fluid flow; and reactors and particulate systems.

The student conference would not have been possible without the support of the following major sponsors: Department of Energy; Union Electric; U.S. Navy Nuclear Regulatory Commission; Southern Company; American Nuclear Society; American Electric Power; Northern States Power Company.

ANS Scholarships Recipients

Four of our students are recipients of several 1997 American Nuclear Society (ANS) scholarship awards. They were selected by the Scholarship Subcommittee of the ANS Education Division. Starting



from the left in the picture are Andrew Tate, Aaron Garland, Jeffrey Shelton and Jeffery Densmore. The scholarships the students received ranged from \$1000 to \$2000.

CONGRATULATIONS!

New Departmental Web Page

The Nuclear Engineering Departmental World Wide Web homepage will be taking on a **NEW** look coming this fall. The new homepage can be accessed at:

<http://www.nuc.umn.edu>

The homepage will contain information about the department, faculty, students, a guest book, an editorial page and other exciting information about nuclear engineering.

Check it out this fall!

Alumni News

David E. Bartine, '66,'71, Retired from Oak Ridge National Laboratory 12/31/94. I am currently a Senior Consultant in Oak Ridge for M4 Environmental.

Mark Carter, '80, Mark tells us that he now has three kids, Will (almost 6), Frances (age 3) and Elizabeth (just turned 1).

Jeffrey C. Fugate, '95, Jeff is working for a loss prevention company inspecting industrial plants and offices.

Stanton W. Hadley, '79,'81, I'm still at Oak Ridge National Laboratory studying electric utility restructur-

ing and mixed ion level waste threatement.

Andrew Knudsen, '86, Vicki and I announce the birth of our second son, Alex Ansgar, born May 21, 1996. I'm still president of my own computer consulting business, Kudsens Consulting, Inc. I've been getting back in touch with old friends at Westinghouse in Pittsburg - You can find anyone on the Internet!

John P. Kuspa, '72,'76, Currently project manager for consultancy services in India and Bangladesh, helping these governments to encourage and enable private fossil power plants.

Paul G. Justis, Jr., '85, I continue to work at Union Electric in the Corporate Planning Department. The group I supervise handles power purchases and sales in the wholesale power market. My wife Peggy and I live in Des Peres, and have two sons, Benjamin (age 6) and William (age 4).

Steven M. Mertz, '89, Expecting our second child in February 1997. Christina is now 2, so we will be very busy in the spring. Shelly is a stay-at-home mom. I am now considering graduate school and hope to decide in the next few months where to go.

Mark Sautman, '91, Mark and Karen recently had a girl, Devon Nicole, July 26, 1996.

Dale A. Shelton, '85, Career and family are doing great! Dayna and I celebrated our 12th wedding anniversary. Ian (age 10) and Ariana (age 2) are growing up fast. We have been in Decatur, IL since I started working for Illinois Power in 1989.

Vicent C. Wahler, Jr., '65, I retired from the Department of Energy in September of 1996. Will be doing safety analysis consulting in the future.

What's New with You?

We would like to include more news about our alumni in the *Gamma Gazette*. Please send us any changes of your home or business address as well as an update on your accomplishments.

Name: _____

News to Share: _____

The Nuclear Engineering Department would like to thank and acknowledge the following alumni and companies for their generous contributions between October 16, 1996 and August 25, 1997.

GIFTS LESS THAN \$100

Aceil, Smaeil M '84
Ballinger, Clinton T '87
Blase, John J '74
Carter, Mark D '80
Cragg, Christopher D '85
Croessmann, Charles '81
Davis, Briana L '92
Dettmer, Shannon E '95
Drees, Elizabeth A '80
Edwards, Kevin B '89
Fugate, Jeffrey C '95
Hadley, Stanton W '79
Hart, Charles M '86
Heineken, William A '88
Hill, James L '91
Hinton, William K '76
Holland, Timothy E '91
Holtzscher, Dale L '72
Jacobs, David C '62
Jones, Dean B '75
Kalter, Charles J '72
Knaup, James W '84
Knudsen, Andrew T '86
Kuspa, John P '72
Langhorst, Susan M '76

Lee, Darrell R '76
Lewis, Jeffery L '76
Lojek, Jan R '69
Mertz, Steven M '89
Nelson, Christine A '83
Oko, Uriel M '69
Palmtag, Scott P '93
Phillips, Katherine A '90
Rackley, Kevin D '80
Rickard, Donald E '85
Ross, James D '94
Sautman, Mark T '91
Shelton, Dale A '85
Shrestha, Bijaya '95
Singer, Richard J '75
Soto, Marcelo D '85
Starke, Richard M '71
Steadham, Timothy C '93
Taber, Brian K '91
Thro, John R '78
Wahler, Vincent C '65
Wolkenhauer, William C '62

GIFTS \$100 OR MORE

Alford Jay W '65
Barnes David K '83

Bartine, David E '66
Beck, Robert L '93
Bobnar, William B '75
Browning, Jimmy J '85
Cadwallader, Lee C '81
Daily, Charles R '83
Eastburn, Michael R '67
Ferguson, Phillip D '88
Flynn, Darrell C '79
Ford, Michael John R '88
Garner, Harold R '76
Justis, Paul G '85
Kinn, Gregory S '87
Kumar, Arvind
Liao, Yonkai '92
Moffett, Donald L '74
Mueller, Gary E '76
Pickard, Rodney G '95
Reid, Billy W '77
Rempe, Joy L '81
Schnell, Donald F '86
Simpkins, Alice A '89
Smith, Jeffery J '87
Suwal, Gajendra M '76
Tibbitts, Dean L '73
Till, Henry A '68

The following corporations made gifts to the Nuclear Engineering Department during the same time period.

Arizona Public Service Foundation
Carolina Power & Light Co.
Entergy Operations, Inc.
Halliburton Education Foundation
IES Industries Inc.
Illinois Power Co.
Lockheed Martin Corporation
Pennsylvania Power & Light Co.
Public Service Elec & Gas
Union Electric Charitable Trust
Virginia Power
Westinghouse Foundation

The gifts received by the department from individuals totals \$5800.

The matching gifts received by the department from corporations totals \$1528.

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**Phonathon
October 5 - 9, 1997.**