



The Newsletter of the Department of Nuclear Engineering

# Gamma Gazette<sup>®</sup>

University of Missouri-Rolla • Missouri's Technological University

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## Gamma Gazette

Welcome to the first issue of our new newsletter, the *Gamma Gazette*. We have changed the newsletter format to improve our communication with our alumni and others 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 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!

### WHAT'S INSIDE?

**Page 2**  
Departmental News

**Page 3**  
Alumni News

**Page 4**  
Gifts

## 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 1996-97 academic year, 41 new scholarships of \$2,500 have been awarded to nuclear engineering students.

Six students in the Nuclear Engineering department at UMR have received NANT scholarships. The students include two sophomores, Aaron F. Garland and Alexander A. Silvius, and four juniors, David B. Alford, Rebecca M. Monaghan, Rachel L. Ragland, and Jeffery D. Shelton. The department congratulates these students for their outstanding achievements.

## Barry M. Goldwater Scholar

Jeffery D. Shelton of Millstadt, Ill., a nuclear engineering junior, has been selected as a 1996 Barry M. Goldwater Scholar. He was one of 264 college students in the United States to receive the scholarship, which covers the cost of tuition, fees, books and room and board, up to a maximum of \$7,000 a year. The award to Jeff marks the third time a UMR student has received the scholarship.

## New Counting Equipment

New counting equipment has been purchased for the Radiation Measurements Laboratory (NE 204) in room 106 Fulton Hall at a cost of \$45,000. At present, there are eight counting stations in the laboratory which can handle 16 students per section. Three of the counting stations include a computer and appropriate software to record and analyze energy spectra.

## Phonathon

Our annual Phonathon is scheduled for October 13-16. 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 of new students. We look forward to talking to you!

MORE TO COME



## Message from the Chairman

This has been an exciting year for both UMR and our department. As UMR celebrates its 125th anniversary, it has also won the prestigious Missouri Quality Award. We are proud to be a part of UMR and its heritage and future.

With the help of Union Electric, our department became the recipient of \$20,000 from the Department of Energy, to fund undergraduate scholarships. These scholarships help us recruit and retain quality students. We were also able to obtain funding, mostly from internal sources, which has been used to purchase radiation measurement equipment for the NE 204 (Nuclear Radiation Measurements) lab. In addition to the NE 204 lab, we have also upgraded the CLC (Computer Learning Center) in Fulton Hall (see details in the article below).

Our visit from the ABET (Accreditation Board of Engineering and Technology) is scheduled for this fall of 1996. We have been working very hard to document the education we are providing for our students.

Finally, you will notice that our newsletter has taken a new form. We are excited about it and hope you are too. Please let us know what you think.

Your suggestions for improving the Department are greatly appreciated. Please give us a call at 573-341-4720 or e-mail me at [kumar@umr.edu](mailto:kumar@umr.edu).

Thank you all for your continued support!

Arvind Kumar, Chairman of Nuclear Engineering

## Departmental WWW

The Nuclear Engineering departmental World Wide Web page can be accessed electronically at: <http://www.nuc.umr.edu>.

Our homepage contains information about the UMR campus, NE department, faculty, students, catalog information, guest book, and other information.

*Check it out!*

## *Student's Money At Work*

by Rodney G. Pickard, '95

Given the affinity for computing power that has characterized nuclear engineering since the days of punch cards, one of the best ways to serve our student body has always been to provide them with modern computing facilities. Over three years ago the antiquated AT&T 3B15 was replaced by a Sun Sparc 20; but, with undergraduate research becoming more common and more advanced, even the Sun is no longer adequate to service the increased system demands placed on it by an ever more demanding student body. To relieve much of the load serviced by the Sun, the department recently purchased a Hewlett-Packard 9000 series 715/100. This machine, with approximately twice the computing power of the Sun, will be a more than adequate supplement to satisfy computing demands for the next few years.

In addition to the new workstation, the department also purchased its own Novell server, nine Pentiums, three PowerMacs, and a variety of multimedia equipment which will provide our students with excellent service for ordinary tasks such as word processing as well as truly cutting edge multimedia development. This includes a flatbed scanner, digital camera, advanced software, and a top-of-the-line Hewlett-Packard ink jet printer. Our students now have the assets available to



produce first-rate presentations and reports for their classes which increasingly focus on communication skills (both written and oral).

The final addition to the already impressive department computing facilities is our own world wide web server (<http://www.nuc.umr.edu>). This server, which is completely maintained by the students, was originally intended to provide information about our department and the nuclear industry in general; and it has fulfilled its mission and much more. By posting homework assignments, class notes, etc. on the server in the form of Adobe Acrobat files, the department can significantly reduce the number of photocopies that must be made and, consequently, reduce the amount of paper consumed. Another frequent use of the server is that of an e-mail list server. At the beginning of a new semester, a list of e-mail addresses for the students in each class is compiled and installed on the server which allows professors to communicate with an entire class by sending a single e-mail message. Students, can also instantly communicate with all of their classmates in this fashion. All of these methods of rapidly transferring information and computer based training are revolutionizing the education process as we usher in the 21st century.



## Order of the Golden Schillelagh

**Gary, NucE '76, and Mary Mueller**, have recently become new members of the Order of the Golden Schillelagh (OGS).

*"What is the Order of the Golden Schillelagh?"* OGS

is a group of alumni and friends of UMR, who have made a financial commitment to helping the school meet its educational goals. Membership is open to anyone who will make the commitment to give \$10,000 over 10 years at a minimum of \$1,000 per year. You designate where you wish the money to go.

More than 200 Schillelagh members came to UMR the

weekend of April 12-14, 1996 to celebrate the 20th anniversary of the Order of the Golden Schillelagh.

Today the membership in OGS stands at 466, and it was noted during the evening that Schillelagh members have already given more than \$23 million to the UMR campus and have pledged more than \$20 million in future support.

Gary and Mary are the first OGS members for our department. We greatly appreciate their commitment to UMR and Nuclear Engineering. Thank you again for your support!

For more information about OGS please contact Kittie Robertson at (573) 341-4002 or [kittie@umr.edu](mailto:kittie@umr.edu).

## Alumni News

**Jeffrey C. Fugate, '95**, is a Loss Prevention Consultant for Factory Mutual Engineering and Research. Duties include inspecting various sites to cut costs in case of fire or other catastrophes.

**Donnie Harrison, '83**, is part of a company providing risk management and safety-related consulting services. "Things are going very well, as Sara and I adjust to the Washington, D.C. area. It's a BIG change from Idaho Falls, Idaho."

**Glen Kaegi, '83**, is currently working at INPO on-loan from IES industries-

Duane Arnold Station.

**Jan R. Lojek, '69**, is a Senior Project Manager at B&W Fuel Co. for Arkansas Nuclear One-Unit 1 and recently also for Davis-Besse (Toledo Edison).

**Mark Sautman, '91**, will become (as of 10/2/95) the Defense Nuclear Facilities Safety Board's site representative at DOE's Rocky Flats Environmental Technology Site in Golden, CO.

**Ali A. Simpkins, '89**, is in charge of maintaining four atmospheric dispersion modeling dose assessment codes. "Believe it or not fellow

classmates, I am a successful programmer. I LOVE my job. Life is great! Phil and I are happily sharing our home with 4 cats and 2 dogs." She tells everyone HI!

**Tim Steadham, '93**, is a System Engineering at Virginia Power. He has finished a "Basic Technical Staff Training Program" through Virginia Power and has received a certificate from the National Academy for Nuclear Training for it. "I have recently become a state, and soon to be nationally, registered EMT. I volunteer about 96 hours/

month with a local rescue squad."

**Henry A. Till, '68**, is a Senior Engineering at Arizona Public Service and "would just like to thank MSM-UMR for the fine education they gave me."

**Rodney G. Pickard, '95, and Cheri L. Thompson, Econ '95**, were married June 1, 1996. Rodney is currently pursuing his MS in NucE at UMR and Cheri is working for Mercantile Bank in St. Louis. They live in Pacific, MO.

## 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: \_\_\_\_\_

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The following persons made gifts to the Nuclear Engineering Department between August 25, 1995 and June 14, 1996.

**GIFTS \$100 or more**

Alford, Jay W '65  
Barkalow, Thomas W '74  
Bobnar, William B '75  
Browning, Jimmy J '85  
Buth, Donald J '85  
Covington, Lorne J '86  
Daily, Charles R '83  
Easson, Sheldon A '75  
Eshelman, Curtis D '86  
Flynn, Darrell C '79  
Ford, Michael J '88  
Garner, Harold R '76  
Kinn, Gregory S '87  
Liao, Yonkai '92  
Lockett, Richard M '76  
Moffett, Donald L '74  
Mueller, Gary E '76  
Radcliff, Thomas D '80  
Smith, Jeffery J '87  
Spector, Stanley M '72  
Suwal, Gajendra M '76  
Tibbitts, Dean L '73  
Till, Henry A '68  
Tsoulfanidis, Nicholas  
Walker, Starnes E '88  
Wykoff, Dale L '78

**GIFTS LESS THAN \$100**

Aceil, Smaeil M '84  
Ballinger, Clinton T '87  
Barnes, David K '83  
Bartlett, Bruce L '80  
Beck, Robert L '93  
Burchill, William E '64  
Cadwallader, Lee C '81  
Carter, Mark D '80  
Covey, Mark K '82  
Cragg, Christopher D '85  
Croessmann, Charles D '81  
Dobson, Paul J '94  
Drees, Elizabeth A '80  
Eastburn, Michael R '67  
Edwards, Kevin B '89  
Gode, Timothy D '91  
Golshani, Mehdi '74  
Grieser, William V '75  
Hadley, Stanton W '79  
Hayward, Robert L '75  
Heineken, William A '88  
Hill, James L '91  
Hinton, William K '76  
Huecker, Jonathan D '93  
Jacobs, David C '62  
Justis, Paul G '85  
Kalter, Charles J '72  
Kelly, Mark L '94  
Knaup, James W '84

Kossina, Paul G '77  
Langhorst, Susan M '76  
Lee, Darrell R '76  
Lewis, Jeffery L '76  
Lojek, Jan R '69  
Mali, Kashmira D '82  
McCoy, Jaime H '95  
Mertz, Steven M '89  
Palmtag, Scott P '93  
Pendergrass, Gary J '84  
Phillips, Katherine A '90  
Pickard, Rodney G '95  
Rackley, Kevin D '80  
Reid, Billy W '77  
Rickard, Donald E '85  
Ross, James D '94  
Sakowicz, Paul M '93  
Schade, Arlen R '64  
Schnell, Donald F '86  
Shelton, Dale A '85  
Simpkins, Alice A '89  
Singer, Richard J '75  
Soto, Marcelo D '85  
Struve, James E '73  
Taber, Brian K '91  
Wahler, Vincent C '65  
Wiese, Charles W '76  
Wolkenhauer, William C '62

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

Carolina Power & Light Co.  
Commonwealth Edison Co.  
Halliburton Education Foundation  
Illinois Power Company  
Lockheed Martin Corporation  
Martin Marietta Foundation  
Olin Corporation Charitable Trust  
Public Service Electric & Gas Company  
Studsvik of America, Inc.  
Union Electric Company

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The gifts received by the department from individuals totals \$7390.

The matching gifts received by the department from corporations totals \$2290.

Nuclear Engineering  
102 Fulton Hall  
University of Missouri-Rolla  
Rolla, MO 65409-0170  
(573) 341-4720  
www.nuc.umr.edu

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**Phonathon**  
**October 13 - 16, 1996.**