

## I Introduction

The American Nuclear Society Student Section at the University of Missouri – Rolla continued to promote the principles of the Society by encouraging its members to participate in nuclear science related activities and by taking these activities everywhere they went. Many new events were developed and held this past year. Section membership dues remain \$10 for the year. Our new faculty advisor, Dr. Heather Gepford, informed the section of National ANS news and benefits.

### I.1. Officer's & Committee Chairmen's Reports

Following are the reports from the President, Vice-President, Treasurer, Reporting Secretary, Historian, Student Council, and Internet Chairman. Most of the previous officers will be attending UMR this coming year to continue and build the section's success.

### I.2. President's Report

William Danchus was the President for the UMR-ANS during 2002-2003. He is a senior in the nuclear undergraduate department. He coordinated the section with involvement and conducted executive meetings. Duties included managing regular meetings and making meeting agendas. The president was responsible in organizing section activities, recruitment of new members and motivating members to better themselves by being involved in the section.

### I.3. Vice-President's Report

Hannah Yount was the Vice-President for the UMR-ANS during 2002-2003. She is a junior in the nuclear engineering department. Hannah's primary role was to assume Presidential duties in his absence, which happen a few times. She arranged to bring speakers for the meetings. She constructed and spear-headed the newly created 'Ambassador Program'. Her leadership and assistance in many activities including the 'Irradiated Food BBQ' was invaluable. The 2003-2004 Vice-President will be graduate student Virginia Cleary.

### I.4. Treasurer's Report

Allison Adams was the Treasurer for UMR-ANS during 2002-2003. Allison is a junior in the nuclear engineering department. She oversaw the accounting and fundraising duties of the section. Her term was characterized by a very busy and varied schedule. She coordinated the procurement and payment of food for various events including the 'Chili Cook-off', 'Irradiated Food BBQ', and the 'ANS Picnic'. She arranged for cookies and soda to be at every regular meeting and pizza when the section hosted a speaker. Allison was the leader in requesting funds from the Missouri School of Mines and Metallurgy Alumni Association and UMR Student Council to support many ANS activities during her term. The 2003-2004 Treasurer will be sophomore Jeffery Joggerst.

### I.5. Reporting Secretary's Report

Craig Heimericks was the Reporting Secretary for UMR-ANS during 2002-2003. Craig is a junior in the nuclear engineering program. He recorded the meeting minutes and sent

them over email on the section's listserv. He also created the web-based listserv for an efficient method for members to communicate. Duties included overseeing the section constitution and Bylaws. Craig organized the 'Blue Glow Tour' held in December 2002, talking to the local media, posting flyers and creating informational packets. He contributed in the creation and funding of a T-shirt to raise funds for the section. Additionally, he assisted in the provision of posters for the 'Ambassador Program' and is currently working on a Departmental recruiting video. The 2003-2004 Reporting Secretary will be junior Bren Phillips.

#### **I.6. Historian's Report**

The Historian for 2002-2003 was senior Julie Tucker. Julie used the section's digital camera to take pictures at events and of the guest speakers. She compiled a scrap book with the pictures for everyone to see. Pictures included are from the picnics, the float trip, Ambassador presentations and many more. The 2003-2004 Historian will be Michelle Minard.

#### **I.7. Student Council Representative's Report**

Freshmen Michelle Marincel and Jeff Joggerst were members of the UMR Student Council. They informed the section of StuCo activities and passed along the opinion of the section at StuCo meetings. Both were instrumental during the fund appropriations and UMR activity involvement. Michelle Marincel will be the 2003-2004 Student Council Representative.

#### **I.8. Internet's Report**

Graduate Tyson Bourbina maintained and updated the UMR-ANS website at <http://www.ans.umn.edu/>. The site includes links to webpages that provide information on nuclear science and news of what the section has been doing. The website includes a guestbook for people to let us know how we are doing informing them of what they want to know.

### **II. Member Enrichment**

The section offers many activities to promote leadership skills, professional and nuclear science learning development through many activities student members and faculty can participate in.

#### **II.1. Speakers**

This year a wide range of guests came in to speak on many different topics. Tim Hermann from Callaway Nuclear Power Plant spoke about current events in the industry (specifically on the cracked reactor vessel head at David-Bessie). The Navy came to promote the NuPOC Program. Dr. Eric Loewen from Idaho National Engineering and Environmental Laboratory discussed past reactor accidents. Dan Yount came from Omaha, Nebraska to speak on the economics of the nuclear industry. Dr. Madison and Dr. Gerald Wilemski from the UMR Physics Department spoke about the work of a nuclear physicists and neutron scattering research at NIST, respectively. Deanne Murphy from Bechtel discussed jobs and opportunities in the nuclear field. Bob Clarke of

Entergy discussed Human Performance in the nuclear industry. Anne Winters of INPO came to speak about NANT scholarships and Excelon Vice-President Preston Swafford discussed jobs at Excelon during the same meeting. All of these speakers were separate from the department seminars, which also contributed to the enrichment of UMR's Nuclear Engineering Department.

## **II.2. ANS Sponsored Conferences**

Several student members and Faculty attended conferences. Undergraduate Hannah Yount and graduate Jamie Ferraro attending the 2002 ANS Winter Meeting at Washington D.C. Seniors Ben Amiri, William Danchus, Jane Diecker and Julie Tucker attended the ANS Student Conference at Berkeley, CA. Activities of these students included a tour of the Lawrence Livermore National Laboratory and a chance to talk to renowned scientist Dr. Edward Teller. This quartet shared invaluable insight from other ANS students and faculty on a wide range of ideas for events (including an irradiated food BBQ and tips on sponsoring a Student Conference). Professor Dr. Nicholas Tsoulfanidis attended the 10<sup>th</sup> International High-Level Waste Management Conference in Las Vegas, NV. Dr. Tsoulfanidis was on a tour of Yucca Mountain.

## **II.3. Scholarship Recipients**

Several members received scholarships and grants from several organizations. Eight members received a NANT scholarship and two graduates received Fellowships.

## **II.4. Member Speakers**

Several members discussed their co-op and internship experiences during regular meetings. This allowed other members to learn how to obtain such an opportunity and gain insight on different fields of nuclear science.

## **III. Campus Involvement**

The section initiated three new campus events this year. All were a big success and highlights of the section.

### **III.1. Irradiated Food BBQ**

The first ever Irradiated Food BBQ at UMR was hosted on April 25<sup>th</sup> and 26<sup>th</sup> of 2003. This event was held during a campus wide 'Block Party' and promoted irradiated food and its benefits. Funding for this event came mostly from two UMR organizations. Irradiated burgers were bought from a grocery store approximately 100 miles from Rolla. Buns, soda and condiments were also provided for the party goers. Almost all of the burgers were eaten. Food irradiation information was provided by laminated posters and knowledgeable student members to talk with those interested. In the future, we plan on this BBQ to be a fundraising and charitable event. We like to give our appreciation for the help and contacts given by the student members at the University of New Mexico, Penn State and the University of Wisconsin-Madison; previous BBQ sponsors.

**III.2. Blue Glow Tour**

The Blue Glow Tour was an opportunity for the UMR campus, City of Rolla and surrounding communities to get a close-up view of how a nuclear reactor works. The tour was held on two consecutive days to commemorate the 60<sup>th</sup> anniversary of the first controlled chain reaction. Nearly 200 people toured the reactor over the course of the event! “Gone Fission” T-shirts were also created and sold to commemorate the event as well as to help raise funds for ANS. Several student members volunteered their time to give tours as well as answer questions that people had.

**III.3. Chili Cook-off**

The first annual Chili Cook-off was a success and ANS plans to hold another for the 2003 Fall semester. The cook-off was a contest between student personal chili recipes. Supplies such as bowls, spoons, and soda were bought for the event. Each person entering the contest paid a fee. A fee was also charged for all-you-can-eat chili. A first, second and third place winner were chosen by a panel of three judges. Each received a cash prize. The Chili Cook-off was a successful social event and fundraiser. The cook-off will become a tradition of UMR-ANS.

**IV. Departmental Assistance**

The section works with the Nuclear Department to better accommodate the faculty/student relationship.

**IV.1. Advisory Board**

This includes the executive members and a member of each class (freshman, sophomore, junior and senior) to sit down and discuss issues with the Department Chairman on class schedules, class offerings, etc...

**IV.2. Event Assistance**

The Nuclear Department has on many occasions paid partial or fully for the provision of food and soda at regular meetings with guest speakers, including the Navy, Bettis and INEEL visits. The usage of departmental equipment for the production of materials has been given on most of the sections activities.

**V. Community Outreach/Service**

The main focus of this year’s outreach service is that of talking to local grade and high school students on nuclear science. More services are being planned for next year.

**V.1. Ambassador Program**

The Ambassador Program was started this year in order to increase ANS involvement with the community and the UMR Research Reactor. The program created presentations and gave them to the local schools. They also gave presentations to groups that came to the UMR for tours. In addition to giving presentations, the group participated in local high school career fairs and organized information for distribution during events, such as the Irradiated BBQ. The entire ANS membership participated in critiquing the

presentations and distributive material. The faculty and department also lent a hand. This group, led by Vice-President Hannah Yount, was comprised of freshman all the way through graduate students. The older students mentored the younger students (mainly freshmen), and the result was great deal of communication between the classes. It also offered an opportunity to practice giving presentations to each other. Later in the program, the younger students began taking leadership positions, specifically freshman Alfred Schovanez and David Garcia.

#### **V.2. Charity Continuations**

The section donated funds to the "Royal T Ranch". The Ranch offers horseback riding and other activities for disable persons. Several members volunteer their time in helping the ranch throughout the year.

### **VI. Collaborative Projects**

The section enjoys sharing ideas and having fun with anyone around.

#### **VI.1. Purdue Trip**

On a weekend in April 2003, five lucky members visited to the ANS Student Section at Purdue University. They were welcome and catered by the most wonderful people. Their visit included tours of the research reactor as well as PUMA and hydraulic facilities. Everyone had a blast during the ANS picnic. The visit coincided with two campus events that the Rolla members could feel the atmosphere of Indiana. We are planning to host the Purdue Section next year. We thank everyone at the Purdue Chapter for their hospitality and hard work to make trip happen.

#### **VI.2. University of Missouri-Columbia Seminar**

Members and faculty of the section attended a seminar by Dr. Juderstadt in March 2003. His seminar discussed .... After the seminar, members received a personal tour of the UMC reactor by Dr. Miller.

#### **VI.3. ASME Joint Meeting with the Navy**

The ASME and ANS at UMR held a joint meeting to welcome Navy recruiters to the UMR campus. This event brought the two clubs together and similar events are being looked into for next year.

#### **VI.4. Larry Foulke**

The section had the honor to have the President-Elect of the American Nuclear Society during a meeting. Dr. Foulke gave a presentation on "The Society for the advancement of nuclear science and technology to benefit humanity".

### **VII. Fundraising**

The section seeks many ways to raise funds for the section from Alumni, UMR, and fundraising events.

**VII.1. UMR Campus Organizations**

The University of Missouri-Rolla Student Council and MSM Alumni Association funds worthy activities of organizations. The section received more than \$2500 for 2002-2003.

**VII.2. T-Shirts**

Many T-shirts are sold with a variety of designs to help raise funds. We are always looking for new and funky designs.

**VIII. Social****VIII.1. Spring and Fall Picnics**

Two picnics are held each year for the members to relax and mingle with the faculty outside the classroom. Anyone is welcome; high school and college freshman alike. We had a picnic in May and September 2002. The executive members coordinate this event.

**VIII.2. Float Trip**

The section held its second annual float trip on the Current River. Julie Tucker arranged everything and everyone had a blast. The river was fast and it rained the last 2 miles, but you couldn't tell from the looks of those who went.

**IX. Appendix****IX.1. Calendar of Events****IX.1.a. Fall 2002****IX.1.b. Spring 2003**

## FALL 2002 SCHEDULE

<i>Date</i>	<i>Event/Speaker</i>	<i>Speaker Topic(s)</i>
<b><u>September</u></b>		
4 <sup>th</sup>	Regular Meeting	Welcome BACK!!
13 <sup>th</sup>	ANS Picnic	Food and games at Lion's Club Park
15 <sup>th</sup>	ANS Float Trip	Annual float trip on the Current River
18 <sup>th</sup>	Regular Meeting	ANS Students                      Co-op Experiences
25 <sup>th</sup>	Regular Meeting	Tim Herrmann-Callaway              Job Opportunities
26 <sup>th</sup>	UMR Career Fair	
<b><u>October</u></b>		
2 <sup>nd</sup>	Regular Meeting	Rollamo Picture
		Navy                      NUPOC Program
4 <sup>th</sup>	STUCO FREE DAY!!!!	(No Classes)
7 <sup>th</sup>	Homecoming Week	
15 <sup>th</sup>	Regular Meeting	Dr. Eric Loewen-INEEL              Rx Accidents and Safety of Gen. IV Rxs
20 <sup>th</sup>	UMR Family Weekend	
30 <sup>th</sup>	Regular Meeting	Dr. Rogers                      Nuclear Submarines
<b><u>November</u></b>		
5 <sup>th</sup>	Election Day	Don't forget to vote!
13 <sup>th</sup>	Regular Meeting	Nominations
		Dan Yount                      The Economics of Power Plants Before and After TMI
27 <sup>th</sup>	Thanksgiving Vacation Begins	
<b><u>December</u></b>		
1 <sup>st</sup>	Last day of Thanksgiving Vacation	
4 <sup>th</sup>	Regular Meeting	Elections
13 <sup>th</sup>	Last Day of Classes	
16 <sup>th</sup>	Final Exams Begin	
20 <sup>th</sup>	Final Exams End	
21 <sup>th</sup>	Graduation & Beginning of Winter Break	

## Spring 2003 SCHEDULE

<i>Date</i>	<i>Event/Speaker</i>	<i>Speaker Topic(s)</i>
<b><u>January</u></b>		
15 <sup>th</sup>	Regular Meeting	
29 <sup>th</sup>	Regular Meeting	
<b><u>February</u></b>		
10 <sup>th</sup>	Ambassador	Presentation/Denis Beller
12 <sup>th</sup>	Regular Meeting	High School
19 <sup>th</sup>	Regular Meeting	UMR Career Fair
25 <sup>th</sup>	Ambassador	Dr. Madison
		Nuclear Physicists
		Presentation
		High School
<b><u>March</u></b>		
5 <sup>th</sup>	Regular Meeting	
19 <sup>th</sup>	Regular Meeting	Bob Clark-Entergy
		Human Performance
<b><u>April</u></b>		
1st-5 <sup>th</sup>	ANS Student Conference	Berkeley, CA
2 <sup>th</sup>	Regular Meeting	Nominations/Gerald Wilemski
7 <sup>th</sup>	Special Meeting	Anne Winters-INPO
		Preston Swafford-Exelon
		Purdue University
10 <sup>th</sup>	UMR-Purdue Trip	Elections
16 <sup>th</sup>	Regular Meeting	
25,26 <sup>th</sup>	Community/Campus	Blue Key Block Party
30 <sup>th</sup>	Regular Meeting	Food Irradiation BBQ
		First Meeting w/ new officers
<b><u>May</u></b>		
9 <sup>th</sup>	Last Day of Classes	
10 <sup>th</sup>	ANS Picnic	Lion's Club Park
12 <sup>th</sup>	Final Exams Begin	
16 <sup>th</sup>	Final Exams End	
17 <sup>th</sup>	Graduation	Food and Games