



Division of Nuclear Chemistry and Technology
American Chemical Society

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NEWSLETTER

April 2007

Newsletter Editor: Lætitia Delmau
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FROM THE CHAIR – Heino Nitsche

I would like to thank all the volunteers who organized ten very successful symposia during the recent ACS National Meeting in Chicago last month. Seven of our symposia were related to the ACS Presidential Thematic Programming with the overarching theme "Chemistry for a Sustainable Energy Future." These symposia covered basic and applied science for a closed nuclear fuel cycle, spanning from international efforts to provide a sustainable energy future through nuclear energy, modern and future nuclear reactor concepts, the status and future of spent nuclear fuel reprocessing, nuclear waste forms, proliferation issues related to advance fuel cycles, environmental radionuclide transport (cosponsored with GEOG), to isotope needs for energy and national security research.

The symposium on fast automated radiochemistry separations was another successful symposium that attracted also many young chemists.

We held the DNCT symposium for the Glenn T. Seaborg Award honoring this year's award recipient Dr. Norbert Trautmann of the Johannes-Gutenberg-University in Mainz, Germany.

Many highly-accomplished colleagues from the U.S and from Europe attended this symposium to honor Dr. Trautmann. I would like to express again my warmest congratulations from all of the Division members to Dr. Trautmann.

We co-sponsored the symposium "Calixarenes: State of the Art and Perspectives" which was organized by our own Laetitia Delmau and Dean Peterman through I&EC, and the symposium "Chemical Evolution, Chemical Change Across Space and Time" which was organized by CHED and also co-sponsored by GEOC.

I would like to give you a status report on the three major goals, outlined in the last newsletter, that I aim to achieve during my tenure as your Chair:

Development of a vision and long-range strategic plan for the Division

1) The members of the Executive Committee have agreed to participate in a one-day strategic planning session on August 18, 2007, the day before the start of the Boston ACS meeting. This training will be facilitated by ACS. ACS is currently assisting all divisions to participate in strategic planning. I attended a strategic training session last year, and after I overcame my initial skepticism, benefited greatly for this exercise where we worked on a case study of developing a strategic plan for the Petroleum Division. I would like to encourage everyone and especially the younger members to consider taking on a leadership role within the Division in the future. We could make a few additional slots available if you are interested in participating in this training.

2) The Executive committee is currently discussing the possibility of establishing a Long Range-planning Committee for the Division with the goal of providing added continuity and vision.

3) Furthermore, we are planning to reactivate the Membership Committee to counteract the declining number of members. If you would like to work on this committee, please contact me.

Involvement of young members in the decisions process of the Division

I have received very little feedback from the younger members of our Division concerning my request for input on "how can we increase participation in the Division of our younger members who are at the beginning of their careers." We would like to establish a DNCT Young Nuclear Chemists' Committee to give a permanent voice to the younger chemists who are carrying the future of our profession. Please contact me if you would like to be actively involved in this effort and the Committee.

Increased program participation in ACS Regional Meetings

DNCT is co-sponsoring the **62nd Annual Meeting of the Northwest Region of the ACS, Boise, Idaho, June 17-20, 2007.**

http://northwestchemistry.org/Norm_2007/

The deadline for Abstract submission is May 7, 2007.

This Regional ACS meeting has 23 Symposia scheduled. Several of them are relevant to Nuclear Chemistry and Technology. Many of us may be interested to contribute to the Symposium on **Actinide Chemistry**

Organizers: Cal Delegard (calvin.delegard@pnl.gov) and Sergei Sinkov (sergey.sinkov@pnl.gov), Pacific Northwest National Laboratory, Richland, WA 99352

The "Actinide Chemistry" symposium invites contributions on topics in actinide processing, including separations and waste

processing, detection and analysis, spectroscopy, materials behavior, storage, environmental behavior, security, and synthesis.

I look forward to receiving your opinions and suggestions on my main focus areas and on any other subjects and issues that you would like to see addressed during this year (hnitsche@cchem.berkeley.edu). I only can repeat my statement for January: The Division of Nuclear Chemistry and Technology is your division and needs your active participation and involvement.

ACS FALL MEETING - BOSTON

Boston, MA, August 19-23, 2007

Because the ACS Fall meeting is this year three weeks earlier than previous meetings, I have informed you about the meeting in my letter of March 18, 2007. The deadline for submission was April 2, 2007, and has passed. The preliminary program will be posted after April 16, 2007 on the Division's Webpage. The following symposia will be scheduled:

1) Meeting the Diverse Needs of the 21st Century Nuclear Science Workforce: A Symposium by Graduate Student Scientists in Nuclear and Radiochemistry

Organizers: Prof. Nathalie A. Wall, Department of Chemistry, Washington State University, Pullman, WA 99164, nawall@wsu.edu, Phone: (509) 335-8917 (Fax (509)-335-4433); Dr. Charles M. Folden III, National Superconducting Cyclotron Laboratory (NSCL), Michigan State University, 1Cyclotron, East Lansing, MI 488241321, Folden@nscl.msu.edu, Phone: (517)355-9672 Ext 153 (Fax N/A); Dr. Charles L. Crawford, Environmental & Chemical Process Technology Section, Savannah River National Laboratory, Building 773-41A, Rm. 180, Aiken, SC 29808, charles.crawford@srnl.doe.gov, Phone: 803-725-8049 (Fax 803-725-4704)

2) Nuclear Structure and Reactions in the Era of Radioactive Beams

Organizers: Prof. Romualdo T. de Souza, Department of Chemistry, Indiana University, 800 E. Kirkwood Ave., Room C230A, Bloomington, IN 47405-7102, desouza@indiana.edu, Phone: (812) 855-3767 (Fax N/A); Dr. Larry Phair, Nuclear Science Division, Lawrence Berkeley National Laboratory, MS 88, 1 Cyclotron Road, Berkeley, CA 94720, lwphair@lbl.gov, Phone: (510)486-7958 (Fax N/A)

3) Computational Actinide and Transactinide Chemistry: Progress and Perspectives

Organizers: Dr. Jun Li, Pacific Northwest National Laboratory, W. R. Wiley Environmental Molecular Sciences Laboratory, P.O. Box 999, Richland, WA 99352, Jun.Li@pnl.gov, Phone: 509-376-4354 (Fax 509-376-0420); Prof. Peter Schwerdtfeger, Institute of Fundamental Sciences, Massey University, Massey University (Auckland Campus), Private Bag 102904, North Shore MSC, Auckland New Zealand, p.a.schwerdtfeger@massey.ac.nz, Phone: (64) 09 443 9780 (Fax (64) 09 443 9779); Prof. Nick Kaltsoyannis, Department of Chemistry, University College London, 20 Gordon Street, London WC1H 0AJ, n.kaltsoyannis@ucl.ac.uk, Phone: +44 (0)20-7679-4670 (Fax +44 (0)20-7679-7463)

4) Molecular Imaging

Organizers: Prof. Henry F. VanBroeklin, Department of Radiology, Center for Molecular and Functional Imaging, University of California San Francisco, San Francisco, CA 94107, Henry.VanBroeklin@radiology.ucsf.edu, Phone: (415)353-4569 (Fax (415)353-9412); Prof. Alan B. Packard, Division of Nuclear Medicine, Children's Hospital Boston/Harvard Medical School, 300 Longwood Ave, Boston, MA 02115, alan.packard@childrens.harvard.edu, Phone: 617-355-7539 (Fax 617-730-0619)

5) Analytical Chemistry in Nuclear Technology

Organizers: Dr. Charles J. Coleman, Savannah River National Laboratory, Washington Savannah River Company, Building 773-A, Aiken, SC 29808, Phone: 803-725-1160, Fax: 803-725-4704, charles02.coleman@srs.gov. Dr. David T. Hobbs, Savannah River National Laboratory, Washington Savannah River Company, 773-A, B-117, Aiken, SC 29808, Phone: 803-725-2838, Fax: 803-725-4704, david.hobbs@srs.gov. Dr. David E. Hobart, Chemistry Division, Los Alamos National Laboratory, Mail Stop G740, Los Alamos, NM 87545, Phone: 505-667-0205, Fax: 505-665-4737, dhobart@lanl.gov

I look forward to welcoming you to Boston in August.

Heino Nitsche, Chair 2007

ACS NATIONAL MEETINGS 2008

New Orleans, LA, April 6-10, 2008

Philadelphia, PA, August 17-21, 2008

Please do not forget to send Roy Lacey (Vice-Chair 2007, roy.lacey@sunysb.edu) your suggestions for the 2008 meetings in New Orleans, and Philadelphia. Divisional members who would like to organize or assist with the organization of a symposium at these ACS National Meetings are strongly encouraged to contact Roy immediately at Roy.Lacey@Stonybrook.edu.

Student support for attending both meetings is anticipated. Please encourage your students to mark their calendars and contact Roy as soon as possible.

COUNCILORS' REPORT- Joe Peterson
Councilors: Joseph R. Peterson and Elliot S. Pierce (Emeritus)

Alternate Councilor: Jeff Bryan

The ACS Council in Chicago chose the following two candidates for 2008 President-Elect: Thomas H. Lane (a Director at Dow Corning) and Howard M. Peters (a CA patent attorney). Not known at the present time is whether or not there will be any additional petition candidates for 2008 President-Elect.

Following usual practice, Council heard reports from all the officers and then from the elected committees, standing committees, and some of the other committees. The Committee on Committees (ConC) recommended the continuation of the Committee on Science (ComSci), the Women Chemists Committee (WCC), and the Younger Chemists Committee (YCC) as a result of their standard review process. Council voted in favor of these recommendations.

Council received three petitions for action to amend the Society bylaws. A petition to restrict members of the Committee on Nominations and Elections (N&E) from being nominated for national offices (President-Elect, District Director, and Director-at-Large) while they are serving on N&E and until one year after their N&E service ends brought extensive floor debate. Finally a recorded vote was taken, and the petition was defeated. A petition to allow the option of prepaying Society dues up to three years, providing the member is not eligible for any dues discounts, was accepted by voice vote. Council also voted to make this petition effective when technical components are instituted to offer and track the payments, but no later than January 1, 2010. Another contentious petition consisted of one part regarding the timing of run-off elections and specifying an election process for situations where only one Director-at-Large position is open and another part addressing consistency in national election procedures, proposing changes to standardize the petition and election processes for President-

Elect and all Director positions based on percentages of voting members. Council voted to split the original petition into the two parts indicated above. The first part was passed on a voice vote. The second part was recommitted to N&E with advice that they reconsider the signature requirements for a petition candidate, the procedures for processing electronic signatures, and those suggestions arising from the Governance Review Task Force pertinent to election procedures and then bring back a comprehensive petition for Council consideration and subsequent action. The Board of Directors will vote within 90 days on whether to ratify the approved petitions.

Council also received one petition for consideration, which assigns oversight responsibility to the Committee on Local Section Activities (LSAC) for approving affiliations of Local Sections with other technical organizations, in accord with the similar process already in place for the Committee on Divisional Activities' (DAC) approving such affiliations of divisions. Council action on this petition is expected at the fall national meeting. LSAC also presented to Council a request to approve the establishment of the 190th local section, to be called the Snake River section with headquarters in Boise, ID. Council voted in favor of forming this section, which includes 12 counties, all currently unassigned territory, in which 101 members reside. One driver for this action was that the new section would be able to co-host the 2007 Northwest Regional Meeting to be held in Boise.

Council voted to set member dues for 2008 at the fully escalated rate of \$136, as recommended by Budget and Finance (B&F). This is an increase of \$4.00 over the 2007 base dues rate of \$132, as calculated from the 3.23% increase in the CPI-W Services index and rounded to the nearest whole dollar. The four-year, special dues assessment to increase funding to local

sections and divisions ended this year, so next year's dues payment will be the same as this year's, \$136. Other financial information reported to Council was that the Society ended 2006 with a net contribution from operations of \$12.2 million, on revenues of \$424.0 million and expenses of \$411.9 million, which was \$7.8 million favorable to the approved budget. This favorable variance was primarily attributable to higher-than-budgeted electronic services revenue and investment income, as well as expense savings from lower-than-budgeted health care costs and reduced IT spending.

The Committee on Economic and Professional Affairs (CEPA) asked Council to approve (and it did) The Chemical Professional's Code of Conduct, an updated version of its previous The Chemist's Code of Conduct to reflect better the changing times and current trends of the Society.

As of March 27th the ACS fall national meeting had attracted 14,520 registrants, broken down as 7,152 regular attendees, 5,059 students, 1,283 exhibitors, 573 exposition only, and 453 guests. Council also voted to hold the two 2017 national meetings in San Francisco (April 2-6) and St. Louis (Sept. 10-14).

Your Councilor, who serves as Chair of the Committee on Membership Affairs (MAC), reported that ACS closed 2006 with 160,491 members, the highest year-end membership since 2002. The membership retention rate remained strong at 92%. Of the 17,857 applications processed in 2006, more than 1,000 came from the Member-Get-A-Member campaign, the recruitment-with-reward program that will continue in 2007 because of its proven success.

Joe is completing his service this 15th year as your division Councilor, Chair of the Membership Affairs Committee (MAC), a member of the Insurance Trust Board, and Chair of the Editorial Advisory Board of CHEMISTRY. He was honored recently,

along with former division Councilor Steve Yates, by being selected as a nominee for District II Director. The Councilors in District II voted to select Joe as the Candidate to run against the incumbent District II Director Diane Grob Schmidt in the fall 2007 election. Emeritus Elliot Pierce reports that he is available for limited tasks in the DC area and confirms his continuing heartfelt enthusiasm for the division.

SUMMER SCHOOL

From Paul Mantica:

2006 top student awards



ACS Spring meeting 2007 in Chicago: Pawan Rastogi of Columbia University receiving the 2006 San José Summer School Outstanding Student Award from Paul Mantica of Michigan State University (National Director of the ACS/DOE Summer Schools).

Sarah DeKat of the University of North Florida received the Brookhaven Summer School Outstanding Student Award, but was unable to attend the meeting.

Renewal of Summer School Grant

The Summer School 5-year renewal proposal was submitted to the U.S. DOE Office of Basic Energy Sciences in August 2006. The proposal received strong, positive reviews, and the award funding is being processed. Student stipends are now included in the base funding for the grant. Stipend level for the 2007 Summer School class will be \$3500 per student. The majority of funding will come from Chemical Sciences, Geosciences, and Biosciences in the Office of Basic Energy Sciences. Additional funds will be provided by the Office of Biological and Environmental Research and the Office of Nuclear Physics.

The award process for the new grant will be different from previous awards. Three separate awards will be made: one to the BNL site, one to the SJSU and the last the Michigan State University (location of National Director). The ACS-DNCT portion of the grant will be subcontracted through MSU. This arrangement will remove some of the reimbursement issues that arose in the past when the full award was made to ACS and subcontracted to the various participants.

Selection of 2007 Class

We received more than 70 applications for the 2007 Summer School program. A committee consisting of Susan Lever (U. Missouri - Columbia), Kim Thomas (LANL), Mark Stoyer (LLNL) and Sue Clark (Washington State U.) review the applications and provided a ranked ordering of students. The list of participating students is given below:

Brookhaven National Lab

John Degrave - Hillsdale College (MI), Benjamin Farah - Northwestern University (IL), Brittany Gaydosh - Huntingdon College (AL), Zigfried Hampel-Arias - Rice

University (TX), Joshua Henry - Austin Peay State University (TN), Andrew Klose - Jamestown College (ND), Kristina Knesting - St. Norbert College (WI), Tyler Litton - University of Missouri, Samantha Mroczynski - The University of Alabama, Dallas Reilly - Carthage College (WI), Monica Straatman - University of Missouri, James Tocyloski - West Chester University (PA)

San Jose State University

Jonathan Burns - MidAmerica Nazarene University (KS), Richard Clark - Brigham Young University Idaho, Kelly Daniel - Truman State University (MO), Kristen Frommeyer - University of Kentucky, Paul Goodman - Truman State University (MO), Nicholas Horton - Rollins College (FL), Lukasz Koscielski - University of Illinois, Elizabeth Long - Tennessee Technological University, Robin Mizzell - Hollins University (VA), Eleanor Ott - University of Pittsburgh (PA), Nicholas Swanson - University of Saint Francis (IN), Mary Twist - Hillsdale College (MI)

The 2007 Summer Schools program will begin Monday, June 18 and run through Friday, July 27. Herb Silber and Rich Ferrieri will continue their roles as Site Directors at SJSU and BNL, respectively.

Any questions regarding the Summer School program should be directed to:

Paul Mantica
National Director, ACS Nuclear and
Radiochemistry Summer Schools
Michigan State University
East Lansing, MI 48824
Phone 517-333-6456
FAX 517-353-5967
email mantica@msu.edu

Nominations sought for 2007 Coryell Award:

Undergraduate students who have done research in nuclear or radiochemistry within the past 12 months are encouraged to apply for the 2007 Coryell Award (or have their research mentor nominate them for the award). There is an application form on the DNCT website to download for the student to fill out. This is submitted electronically (or by US mail) together with a letter of nomination from the research mentor and a research publication or manuscript that describes the research project in which the student was involved. The Award includes a certificate and a check for \$500 and an invitation to the August ACS meeting to receive the award at the DNCT business meeting.

Please encourage your undergraduate research students to apply, the deadline is **May 11, 2007**. Detail are on the DNCT website or please do not hesitate to contact Prof. Graham F. Peaslee (peaslee@hope.edu) if you have any questions.

Fall ACS meeting 2008: Mark your calendar! –Frank Kinard

2008 will be the 25th anniversary of the Nuclear Summer Schools and I will be organizing a symposium for the 2008 Philadelphia meeting on the Nuclear Summer Schools. We would encourage all graduates of the program to plan ahead and participate in the symposium.

AFCI/GNEP UNIV. FELLOWSHIP PROGRAM

Note: the deadline is THIS WEEK

The Advanced Fuel Cycle Initiative (AFCI)/ Global Nuclear Energy Partnership (GNEP) University Fellowship Program is accepting applications **through 5 p.m. Central Daylight Time, Saturday, April 21** at www.studentpipeline.org.

Please encourage your highly motivated students who are interested in acquiring master's degrees related to the AFCI

research program to read the program announcement at the www.studentpipeline.org website and apply for this fellowship.

The U.S. Department of Energy's Advanced Fuel Cycle Initiative (AFCI) is offering fellowships valued at up to \$42,500 each to provide support to students who will be pursuing master's degrees in the Fall of 2007 in engineering, chemistry, physics, or radiochemistry.

Preferred undergraduate degrees include Nuclear Engineering, Chemical Engineering, Mechanical Engineering, Physics, Engineering Physics, Applied Physics, Chemistry, Nuclear Chemistry and Radiochemistry.

* Up to eight Fellowships will be awarded.

* Fellows will receive up to \$42,500 for up to 18 months, which includes a monthly stipend and funds for tuition, fees, books, supplies, and AFCI-related travel.

* Fellows must be U.S. citizens or permanent resident aliens and must be accepted into a master's degree program by September 1, 2007.

* Fellows will conduct master's degree research and have a thesis related to and approved by the AFCI program. In some cases, students will not have theses.

* At some time during their fellowship, fellows will be encouraged to work in the AFCI program at a national laboratory.

Please forward this announcement to colleagues and students who might be interested. The attached file is provided for those who wish to post the announcement or hand it out in class.

Please address questions to Cathy Dixon at cdixon@mail.wtamu.edu or call 806-651-3401.

The AFCI University Fellowship Program is a program of the U.S. Department of Energy Office of Nuclear Energy. The program is administered by University Research Alliance of West Texas A&M University.

University Research Alliance
WTAMU Box 60189
2403 Russell Long Blvd.
Canyon, TX 79016
806-651-3400
www.studentpipeline.org

RADIOCHEMISTRY TEXTBOOK

Dr. J. Navratil has made the generous offer to sell his text book to DNCT members **at half price**. If you would like to purchase a copy, please contact Jim at navratil@litlit.com

Radioactivity, Ionizing Radiation, and Nuclear Energy

Jiri Hala and James D. Navratil
ISBN 80-7302-053-X, Publisher: Konvoj, Brno, Czech Republic, 2003

(Sold in North, Central and South America by Litarvan Literature, 102 Grand Oak Circle, Pendleton SC 29670: \$49.95 plus \$10.00 shipping and handling.)

(Sold elsewhere by Konvoj, spol. s r.o. (Ltd.), Berkova 22, Brno, CZ-612 00, Czech Republic; email:konvoj@konvoj.cz.)

This textbook focuses on basic information about radioactivity, nuclear reactions, properties and measurement of ionizing radiation, nuclear energy and technology, and their environmental aspects. The core of the book proceeds from the authors' lectures in nuclear chemistry and environmental radioactivity at the School of Science, Masaryk University, Brno, Czech Republic, and in actinide and radiochemistry at

Clemson University, Anderson, South Carolina.

The authors' original intention was to write a basic textbook appropriate for introductory courses related to the science of radioactivity, ionizing radiation, and nuclear technology. While working on the manuscript it was felt that topics related to nuclear energy, biological risk of ionizing radiation for man, and environmental aspects of radioactivity and nuclear energy, including management of radioactive wastes, continue to be popular among a wider public. Therefore, the respective sections have been expanded to provide information not only to university students, but also to a wider readership with answers to often asked topical questions that continue to be the target of frequently unjustified criticism from opponents of nuclear and radiation technologies.

The subjects covered in this book have their foundations in a blend of physics, biology, chemistry and engineering. In relation to radiation and nuclear technologies, economics, psychology and politics take their share of credit as well. Having this in mind, and trying to cover as many topics as possible with numerous applications of radioactivity and ionizing radiation, and striving not to produce too extensive of text, some subjects had to be discussed in a simplified form. For the same reason, only a few, arbitrarily selected examples out of many were used to illustrate some facts and methods, and only simple mathematics and accompanying theory necessary for understanding the principles were utilized. The reader will find more information in the sources listed in the "Recommended Reading" sections at the end of each chapter and in electronic information resources listed in Appendix F. Emphasis was laid on more recent literature, predominantly review articles published in English. The authors adhered to the SI system of units, and some useful conversion factors are listed in Appendix G. Appendix E provides names and

abbreviations of institutions and organizations mentioned in the textbook.

ISEC 2008

International Solvent Extraction Conference ISEC 2008

The International Solvent Extraction Conference (ISEC) is the premier meeting of solvent extraction experts, bringing together scientists and engineers from around the globe every three years. The ISEC meetings began in 1962 and have been held worldwide in the USA, UK, Israel, Netherlands, France, Canada, Belgium, Germany, Russia, Japan, Australia, Spain, South Africa, and, most recently, in China in 2005. The North America meetings were held in Gatlinburg, Tennessee, USA in 1963; Toronto, Canada in 1977; and Denver, Colorado, USA in 1983. The ISEC 2008 will be held in Tucson, Arizona, USA, from 15-19 September 2008 and promises to continue the high standard set by these triennial meetings. Eight major topics that will be covered which will have multiple sessions are: Fundamentals; Novel Reagents, Materials, and Techniques; Nuclear Fuel Reprocessing; Hydrometallurgy and Metals Extraction; Analytical Applications; Biotechnology, Pharmaceuticals, Life-Science Products, and Organic Products; Process Chemistry and Engineering; and Petrochemical Applications. Conference tours to mining, and nuclear, pharmaceutical and other industrial sites are planned. Interested participants can access the conference web site for further details at www.isec2008.org or send an email to isec2008@ecs.syr.edu. Abstracts will be due by June 2007; information about abstract submission is also available on the website

RRM CONFERENCE 2007

The Radiobioassay and Radiochemical Measurements Conference (RRMC) is in its

53rd year as a meeting of radiochemists. The evolution of the conference has brought name changes (i.e. The Bioassay Conference), and substantial growth. The conference has remained free from the organizational complexities associated with incorporation, and remains a forum for the discussion of new ideas, and the implementation of procedures and methods in radiochemistry and radiobioassay.

One goal has remained; the introduction of undergraduate and graduate students in chemistry to the field of radiochemistry. This is where the years of preparation become implementation. The conference this year is being held at the Snow King Inn in Jackson Hole, Wyoming during the last week in October. We invite the presentation of reports of original research in physical or radiochemistry. Depending on the interest shown, we may devote a session to this genre.

Some things remain constant, one being the lack of travel funds available for students of science. We are prepared to offer lodging costs at a greatly reduced rate to a few participants with the proper recommendation of their major professors.

Representatives from every National Laboratory are present at RRMCMC, as well as representatives from most of the commercial analytical laboratories. This is an exciting opportunity for young men and women to experience a working conference in their field. More information on the conference can be found on our web site: <http://www.rrmc07.org>

Please pass this information along to others who share an interest in the welfare and future of radiochemistry.

We look forward to hearing from you. If you have questions, please feel free to contact directly J. Stan Morton, Ph.D., Chair, rrmc07@comcast.net
303.423.5209



Up to **\$42,500.00** in Benefits for **Highly Motivated** Master's Degree Students!

Up to 8 students will be named 2007 Advanced Fuel Cycle Initiative Fellows

Up to \$42,500 in benefits will be available for up to 8 students who are selected for the Advanced Fuel Cycle Initiative/Global Nuclear Energy Partnership (AFCI/GNEP) Fellowship Program. Funding provides a \$1,600 monthly stipend for up to 18 months, support for tuition, fees, books and supplies, and support for AFCI-related travel.

Eligible students will be in a master's degree program by September 2007 in Nuclear, Chemical, or Mechanical Engineering, Engineering/Applied Physics, Physics, Chemistry, or Radiochemistry.

Eligible Master's Degree Programs

- Nuclear Engineering
- Chemical Engineering
- Mechanical Engineering
- Materials Science and Engineering
- Physics/Engineering Physics/Applied Physics
- Chemistry/Nuclear Chemistry
- Radiochemistry

Requirements

- U.S. citizenship or permanent resident alien status
- Acceptance into a master's degree program by September 1, 2007
- Full-time enrollment at a U.S. university for the fall 2007 semester
- Research and thesis topic of interest to and approved by the AFCI program

Program Information, Time Frame, and Deadline

- Fellowships begin with the fall 2007 semester and last up to 18 months.
- Fellowships are limited to one per university academic department.
- Fellows are encouraged to work in the AFCI program at a national laboratory at some time during their fellowship.
- Applications are being accepted through **5 p.m. CDT, Saturday, April 21, 2007.**

Program Sponsor

The AFCI/GNEP University Fellowship Program is sponsored by the US Department of Energy (DOE), Office of Nuclear Energy. The program is administered by University Research Alliance (URA).

To submit your application:

<http://www.studentpipeline.org>

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