

Nuclear Science & Engineering Education Sourcebook 2011

**North American
Edition**

**American Nuclear Society
Education, Training, and Workforce Division**

**US Department of Energy
Office of Nuclear Energy**

**Editor and Founder
John Gilligan
Professor of Nuclear Engineering
North Carolina State University**

Version 1.11

Front Cover Photo - Indian Point Energy Center, U.S. NRC Website Photo Gallery

Welcome to the 2011 Edition of the Nuclear Science and Engineering Education (NS&EE) Sourcebook. We have evolved and improved! The core mission of the Sourcebook has not changed, however. Our purpose is to facilitate interaction among faculty, students, industry, and government agencies to accomplish nuclear research, teaching and service activities. Since 1986 we have compiled critical information on nuclear engineering enrollments, degrees, and faculty expertise in printed and electronic formats.

With the expansion of nuclear energy activities since our last edition in 2007, we will now include select science faculty and programs that are relevant to nuclear energy production and use. For example this includes radiochemistry programs focused on nuclear fuel cycle problems. Hence, the expansion of our title includes "Science".

We have gone to a new web based input format that allows quick changes (updated twice per year) to the Sourcebook and the capability to do ranking and sort manipulations in a spreadsheet environment as the data is displayed. Of course we will publish a PDF version of the Sourcebook and distribute printed copies as needed at least one every other year. This year we will also include programs that are new and growing, which might include undergraduate curricula with a nuclear energy minor or graduate programs that offer a track or certificate option. We will list only faculty involved in the nuclear options in all of these cases. In general we list faculty that have at least a budgeted 25% appointment in nuclear activities.

Other nuclear energy or related programs can be found under the listings for the ANS Student Branches and University Reactors. The Sourcebook data will be placed on the web at the Nuclear Energy University Programs (NEUP) site at the Idaho National Laboratory. Copies of the Sourcebook will be distributed to academic Department Heads, and libraries, as well as key industry, society and government officials. A limited number of extra printed copies can be requested in cases where web access is limited or inconvenient.

The Sourcebook is a publication by the Education, Training and Workforce Division of the American Nuclear Society with the support of the Department of Energy, Office of Nuclear Energy. Appreciation is expressed to the Executive Committee of the ETWD of the ANS for their encouragement for this project. Special thanks go to the NEUP Integration Office at the Idaho National Lab for providing support and a web site home for the NS&EE Sourcebook. We would also like to acknowledge the diligent work of Ms. Sherry Bailey for accumulating the Sourcebook information and for maintenance of the Sourcebook website. I would also like to thank the previous Co-Editors of the Sourcebook over the years who have kept the Sourcebook alive and well: K. Verghese, K.L Murty, and M.S. Yim, all of NC State University.

We are excited to present the 2011 Edition of the NS&EE Sourcebook (Version 1.11) available in PDF file format and on the web at www.neup.gov (Related Links).

To update information, please contact Ms. Sherry Bailey (sbbailey@ncsu.edu or 919-515-1897).

John Gilligan, Editor and Founder
Professor of Nuclear Engineering
North Carolina State University
Gilligan@ncsu.edu
919-513-7144

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UNIVERSITY OF CALIFORNIA-BERKELEY

Nuclear Engineering
4155 Etcheverry Hall
Berkeley, CA 94720-1730
510/642-5760
FAX: 510/643-9685
Administrative Contact: Lisa Zelman
510/642-5760
gradinfo@nuc.berkeley.edu
Website: www.nuc.berkeley.edu

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	18	17	14	14
Masters	10	14	9	14
PhD	7	13	5	6

Graduate Student Enrollment: 11 Masters/50 Ph.D.

ABET Accreditation: BS degree in Nuclear Engineering, BS degree in Nuclear Engineering and Mechanical Engineering, BS degree in Nuclear Engineering and Material Science Engineering, BS degree in Electrical Engineering and Computer Science and Nuclear Engineering, BS degree in Chemical Engineering and Nuclear Engineering

Nuclear Science and Engineering Faculty

Per F. Peterson, Professor and Chair (510-642-7749)[peterson@nuc.berkeley.edu]
Ph.D., UC Berkeley, 1988. High-temperature fission and fusion energy systems; topics related to the safety and security of nuclear materials and waste management: heat transfer; fluid mechanics; regulation and licensing for high temperature reactors, principally designs that use liquid fluoride salts as coolants. Website: http://www.nuc.berkeley.edu/People/Per_Peterson

Joonhong Ahn, Professor (510-642-5107) [ahn@nuc.berkeley.edu] Ph.D., UC Berkeley, 1988.
Mathematical analyses of radionuclide transport in heterogeneous geologic formations and of radionuclide release from man-made waste disposal systems; overall performance assessment models and analysis of the nature of uncertainty incorporated in long-term assessments for radioactive waste disposal. Website: http://www.nuc.berkeley.edu/People/Joonhong_Ahn

Peter Hosemann, Assistant Professor (510-642-5341) [peterh@berkeley.edu] Dr., Montanuniversitaet Leoben, Austria, 2008. Small scale materials testing on irradiated and unirradiated structural materials for nuclear applications; Investigating new advanced structural materials concepts (e.g. oxide dispersion strengthened steels) for nuclear applications using accelerated materials testing via ion beam irradiations; Liquid metal corrosion of structural materials for nuclear applications.
Website: http://www.nuc.berkeley.edu/People/Peter_Hosemann

Edward C. Morse, Professor (510-642-7275) [morse@nuc.berkeley.edu]

Ph.D., University of Illinois, Urbana-Champaign, 1979. Fusion reactor design and applied plasma physics, experimental investigation of RF plasma heating; rotating target neutron source at UC Berkeley; experimental studies of compact toroids; a spectral method for magnetohydrodynamic stability. Website: http://www.nuc.berkeley.edu/People/Edward_Morse

Eric B. Norman, Professor (510-643-9984) [ebnorman@lbl.gov] Ph.D., University of Chicago, 1978.

Developing active neutron-based interrogation system to screen sea-going cargo containers for fissionable material; Cryogenic Underground Observatory for Rare Events (CUORE) – a planned large-scale bolometric detector designed to search for the neutrinoless double beta decay of ^{130}Te ; Measurements of neutron and charged-particle induced reaction cross sections for homeland security, nuclear astrophysics, and neutrino physics.

Website: http://www.nuc.berkeley.edu/People/Eric_Norman

Donald R. Olander, Professor in the Graduate School (510-642-7055) [fuelpr@nuc.berkeley.edu] Sc.D., MIT, 1958. High-temperature kinetic and thermodynamic behavior of nuclear reactor fuels; performance of degraded nuclear fuels.

Website: http://www.nuc.berkeley.edu/People/Donald_Olander

Stanley G. Prussin, Professor in the Graduate School (510-642-5274) [prussin@berkeley.edu] Ph.D.,

University of Michigan, 1964. Low energy nuclear physics and the use of nuclear methods and instrumentation for solving applied problems: oxidation of spent nuclear fuel; radial dependence of burnup and actinide production in irradiated UO_2 ; radiation safety in large central radiopharmacies; development of a nuclear medicine procedure for breast cancer; benchmark measurements of delayed fission product gamma rays; investigation of delayed fission gamma rays as a robust signature for nuclear materials in sea-going cargo containers.

Website: http://www.nuc.berkeley.edu/People/Stanley_Prussin

Jasmina L. Vujic, Professor (510-642-8085) [vujic@nuc.berkeley.edu] Ph.D., University of Michigan,

1990. Numerical methods in reactor physics, neutron and photon transport, reactor core design and analysis, shielding and radiation protection, biomedical application of radiation, optimization techniques for vector and parallel computers: neutronics analysis of fissile material behavior in geologic repositories; computer modeling for radiation diagnostic and cancer therapy; development of multiprocessor multiassembly neutron transport theory code; development and validation of the GT-SCALE code package for advanced reactor core designs; development of a unified multidimensional computational method for neutral particles in complex non-uniform domains.

Website: http://www.nuc.berkeley.edu/People/Jasmina_Vujic

Other Faculty

Ehud Greenspan, Professor in Residence (510-643-9983) [gehud@nuc.berkeley.edu] Ph.D., Cornell

University, 1966. Generation IV reactors - conception and analysis of advanced nuclear reactors; Transmutation - minimization of nuclear waste as well as the disposition of nuclear waste and the

closing of the nuclear fuel cycle; Advanced fuel cycles for improving proliferation resistance and nuclear fuel utilization; as well as development of automated nuclear design optimization methods and their application in the areas of criticality safety, boron neutron capture therapy, radiation shields, and fusion energy systems. Website: http://www.nuc.berkeley.edu/People/Ehud_Greenspan

Daniel M. Kammen, Professor (510-643-2243) [kammen@socrates.berkeley.edu]

Ph.D., Princeton University, 1988. Science and technology policy focused on energy, development and environmental management; Technology and policy questions in developing nations, particularly involving: the linkages between energy, health, and the environment; technology transfer and diffusion; household energy management; renewable energy; women; minority groups; Global environmental change including deep cuts in greenhouse gas emissions and resource consumption; Environmental and technological risk; Management of innovation and energy R&D policy. Geographic expertise: Africa; Latin America. Website: http://www.nuc.berkeley.edu/People/Daniel_Kammen

William E. Kastenber, Professor Emeritus (510-643-0574) [kastenbe@nuc.berkeley.edu] Ph.D., UC Berkeley, 1966. Ethical issues in emerging technologies, risk assessment and risk management for technological and natural complex systems, nuclear reactor safety, environmental risk analysis, environmental conflict resolution. Website: http://www.nuc.berkeley.edu/People/Bill_Kastenber

Ka-Ngo Leung, Professor in Residence (510-486-7918) [knleung@lbl.gov] Ph.D., UCLA, 1975. Plasma and Ion Beam technology in microfabrication processes: maskless ion beam lithography technology as candidates for next generation lithography (NGL) that will be used to produce feature sizes of 100 nm and below; focused ion beam (FIB) systems equipped with plasma ion sources; compact neutron tube with rf plasma ion source. Website: http://www.nuc.berkeley.edu/People/Ka-Ngo_Leung

John P. Verboncoeur, Visiting Professor (510-642-3477) [johnv@nuc.berkeley.edu]

Ph.D., UC Berkeley, 1992. Computational plasma physics, treating collisional and collisionless plasmas as well as bounded plasmas, both electrostatic and electromagnetic: high temperature plasmas such as hot fusion; low temperature discharges for lighting and materials processing; electron and ion beams for heavy ion fusion, propulsion, accelerators, and lithography; microwave beam devices for plasma heating, radar, and electronic warfare; basic plasma physics, including instabilities and plasma-surface interactions; numerical methods. Website: http://www.nuc.berkeley.edu/People/John_Verboncoeur

Kai Vetter, Associate Professor in Residence (510-642-7071) [kvetter@nuc.berkeley.edu] Ph.D., J. W. Goethe-University, Frankfurt, 1995. Development and demonstration of new and/or improved gamma-ray (and neutron) imaging concepts for applications ranging from homeland security and nuclear non-proliferation to biomedical imaging; search for neutrino-less double-beta decay in ^{76}Ge to obtain better understanding on fundamental properties of neutrinos to answer fundamental questions; developing and demonstrating new and improved concepts in Ge detector technologies to provide unprecedented capabilities in observing rare decays or rare interactions; basic nuclear physics experiments and associated instrumentation to better understand the basic structure of nuclei. Website: http://www.nuc.berkeley.edu/People/Kai_Vetter

Brian D. Wirth, Visiting Professor (510-642-5341) [bdwirth@nuc.berkeley.edu]
Ph.D., UC Santa Barbara, 1998. Multiscale materials dynamics: radiation effects on materials in nuclear fission and fusion energy environments, high strain rate deformation and the fundamental relationships between microstructure evolution and mechanical behavior.
Website: http://www.nuc.berkeley.edu/People/Brian_Wirth

Nuclear Science and Engineering Research Centers

Berkeley Nuclear Research Center: The principal focus of the center is to address critical sustainability issues for the nuclear fuel cycle with the specific objectives of: enabling human capital Development for the next generation of nuclear scientists and engineers; creating knowledge and information to inform national policy decisions; fostering international collaborations; fostering campus - national laboratory collaborations; attracting resources and building R&D capabilities.

COLORADO SCHOOL OF MINES

Nuclear Science and Engineering Program

201 Hill Hall; 1500 Illinois St.

Golden, CO 80401

303-384-2133

FAX: 303-273-3795

Administrative Contact: Jeffrey King

303-384-2133

kingjc@mines.edu

Website: <http://nuclear.mines.edu>

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	0	0	0	0
Masters	0	0	1	1
PhD	0	0	0	0

Graduate Student Enrollment: 14 Masters/9 Ph.D.

Nuclear Science and Engineering Faculty

Jeffrey C. King, Assistant Professor and Interim Program Chair (303-384-2133) [kingjc@mines.edu] Ph.D., Nuclear Engineering, University of New Mexico, 2006. Reactor physics and design; neutron imaging; nuclear materials. Website: <http://www.mines.edu/~kingjc>

Uwe Greife, Professor and Chair, Management Team, Nuclear Science and Engineering Center (303-273-3618) [ugreife@mines.edu] Dr. rer. nat., Ruhruniversitaet Bochum, 1994. Nuclear astrophysics; applied nuclear physics; nuclear fission and fusion; radiation detector development. Website: <http://physics.mines.edu/people/phpfiles/greife.php>

David Leroy Olson, John H. Moore Distinguished Professor of Physical Metallurgy (303-243-3955) [dolson@mines.edu] Ph.D., Cornell University, 1970. Actinide Metallurgy; Liquid Metal Coolants; Material Compatibility; Beryllium; Nuclear Joining and Casting; QNDT. Professional Engineer.

Other Faculty

Linda Figueroa, Associate Professor (303-273-3491) [lfiguero@mines.edu] Ph.D., University of Colorado at Boulder, 1989. Bioremediation of radionuclides and metals. Professional Engineer. Website: <http://ese.mines.edu/people/faculty/figueroa.html>

Jen Schneider, Assistant Professor, Liberal Arts and International Studies (303-273-3628) [jjschnei@mines.edu] Ph.D., Claremont Graduate University, 2004. Science, environmental, and risk communication; engineering education; sustainable community development. Website: <http://lais.mines.edu/profiles/schneider.htm>

Zeev Shayer, Research Professor (303-273-3037) [zshayer@mines.edu] Ph.D., Tel-Aviv University, Israel, 1985. Advanced fuel cycle and new reactor concept design; thermal hydraulics; radiation physics; dose rate and material degradation assessments; criticality safety analysis; probability risk assessment and reliability analysis; nuclear waste transmutation and compaction; low energy nuclear physics; computational methods in engineering and science. Professional Engineer. Website: <http://physics.mines.edu/people/phpfiles/shayer.php>

Nuclear Science and Engineering Research Centers

Nuclear Science and Engineering Center (NuSEC) - Coordinates nuclear science and engineering research across campus and maintains the CSM nuclear science and engineering laboratory facilities located adjacent to the GSTR.

Geological Survey TRIGA Reactor (GSTR) - 1 MW thermal TRIGA reactor located on the Denver Federal Center, approximately 10 minutes from campus.

Active Materials Characterization Laboratory (ActMCL) - Provides materials synthesis and characterization capabilities for radioactive materials. Located adjacent to the GSTR. Capabilities include scanning electron microscopy, transmission electron microscopy, optical microscopy, x-ray diffraction, x-ray nano-computed tomography, and neutron radiography and computed tomography.

ÉCOLE POLYTECHNIQUE DE MONTRÉAL

Nuclear Engineering Institute
2500, chemin de Polytechnique
Montreal, Quebec H3T1J4
(514)-340-4711 x 4803
FAX: (514)-340-4192
Administrative Contact: Guy Marleau
(514)-340-4711 x 4204
guy.marleau@polymtl.ca
Website: <http://www.polymtl.ca/nucleaire/en/>

Graduate Student Enrollment: 25 Masters/10 Ph.D
ABET Accreditation: Ph.D., M.Sc.

Nuclear Science and Engineering Faculty

Alain Hébert, Professor (514-340-4711 x 4519) [alain.hebert@polymtl.ca] Ph.D., Paris-XI, 1980. Reactor Physics; Lattice code; Neutron diffusion theory. Professional Engineer.

Jean Koclas, Professor (514-340-4711 x 4263) [jean.koclas@polymtl.ca] Ph.D., MIT, 1980. Safety; Reactor Kinetics; Reactor Physics; Control and simulation. Professional Engineer.

Guy Marleau, Professor (514-340-4711 x 4204); [guy.marleau@polymtl.ca] Ph.D., McGill University, 1983. Reactor Physics, Lattice code, Neutron transport theory.

Robert Roy, Professor (514-340-4711 x 4262) [robert.roy@polymtl.ca] Ph.D., Ecole Polytechnique de Montreal, 1987. Parallel algorithms; High performance computing; Design/validation of software for scientific applications. Professional Engineer.

Alberto Teyssedou, Professor (514-340-4711 x 4522) [alberto.teyssedou@polymtl.ca] Ph.D. Ecole Polytechnique de Montreal, 1987. Diphasic flow; Thermodynamics; Supercritical flows.

UNIVERSITY OF FLORIDA

Nuclear & Radiological Engineering

202 Nuclear Sciences Building

Gainesville, FL 32611

(352) 392-1401

FAX: (352) 392-3380

Administrative Contact: David Hintenlang

(352) 392-1401

dhinten@ufl.edu

Website: www.nre.ufl.edu

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	21	14	23	23
Masters	17	24	18	13
PhD	4	8	12	6

Graduate Student Enrollment: 31 Masters/30 Ph.D.

ABET Accreditation: Nuclear Engineering (BS)

CAMPEP Accreditation: Medical Physics (MS & PhD)

Nuclear Science and Engineering Faculty

David Hintenlang, Professor and Chair (352-392-1401 x 352) [dhinten@ufl.edu] Ph. D., Brown University, 1987. Clinical medical physics applications of radiation imaging and dosimetry; techniques to accurately quantify and minimize pediatric, CT, and mammography doses and optimization of image quality.

Wesley E. Bolch, Professor (352-392-1401 x308) [wbolch@ufl.edu] Ph. D., University of Florida, 1988. External and internal radiation dosimetry; computational medical physics; development of patient-specific anatomic models for organ dose assessment in radiology and radiation therapy; skeletal dosimetry; emergency response to radiological terrorism. Professional Engineer.

David R. Gilland, Associate Professor (352-846-3066) [gilland@ufl.edu] Ph. D., University of North Carolina-Chapel Hill, 1989. Medical imaging using positron emission tomography and single photon emission computed tomography; novel instrumentation and image reconstruction methods for dynamic cardiac imaging; analysis of image quality using human observer models.

Alireza Haghghat, Professor (352-392-1401 x 349) [haghghat@ufl.edu] Ph. D., University of Washington, 1986. Particle transport methods and their applications; parallel computing; Monte Carlo methods; reactor physics; perturbation techniques; simulation of reactors and model devices.

Mark J. Harrison, Assistant Professor (352-392-1401 x 317) [mark.harrison@ufl.edu]

Ph. D., Kansas State University, 2009. Radiation detection; semiconductor and scintillator crystal growth; numerical methods; including Monte Carlo methods; heat transfer; machine controls.

DuWayne L. Schubring, Assistant Professor (352-392-1401 x 314) [dlschubring@ufl.edu]
Ph. D., University of Wisconsin-Madison, 2009. Two-phase flow, quantitative visualization; nuclear reactor safety; computational/numerical methods including coupled codes; advanced nuclear power systems.

Yong Yang Assistant Professor (352-392-1401) [yyang@ufl.edu] Ph.D., University of Wisconsin-Madison, 2005. Structural, fuel cladding and fuel materials for innovative nuclear systems and light water reactors. All material related issues including radiation damage, evaluation of life extension of existing reactors and material selection for advanced nuclear reactor designs.
Website: www.nre.ufl.edu

Nuclear Science and Engineering Research Centers

Advanced Laboratory for Radiation Dosimetry Studies (ALRADS): Dr. Wesley Bolch, Director. Performs high performance computing and Monte Carlo simulation for external and internal radiation dosimetry, computational medical physics, utilizing patient-specific anatomic models for organ dose assessment.

Advanced Nuclear Fuel (ANF) Laboratory: Professor James Tulenko. Empirical base evaluation and development of advanced nuclear fuels and related materials.

Particle Transport and Distributed Computing (PTDC) Lab: Dr. Alireza Haghghat, Director. High performance, parallel computing of large scale particle and radiation transport problems.

Progress Energy Advanced Radiation Detection (PE-ARDAD) Lab: Provides an opportunity for undergraduate and graduate students in the department to learn about and operate various radiation detectors, detector systems, and their associated electronics. Other non-destructive testing equipment are also available for investigative/educational purposes.

Radiography by Selective Detection (RSD) of Backscattered X-rays Lab: X-ray backscatter imaging for a wide variety of industrial applications focused on non-destructive testing in aerospace and medical applications.

Visualization, Imaging, and Computation for the Thermohydraulics of Reactors (VICTR): Dr. Duwayne Schubring. Advanced visualizations of annular two-phase flow with planar laser-induced fluorescence (PLIF) and high-speed video and coupled neutronics/TH with 3D neutron transport and 3D computational fluid dynamics.

University of Florida Training Reactor (UFTR): Dr. David Hintenlang, Interim Director. A 100 kW reactor used for training and demonstration, including the design licensing and construction of a fully digital control and safety system.

GEORGIA INSTITUTE OF TECHNOLOGY

Nuclear and Radiological Engineering and Medical Physics Programs

770 State Street

Atlanta, GA 30332-0745

404-894-3718

FAX: 404-894-3733

Administrative Contact: Farzad Rahnema

404-894-3717

farzad@gatech.edu

Website: www.nre.gatech.edu and www.mp.gatech.edu

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	14	25	32	27
Masters	27	25	24	21
PhD	5	1	1	8

Graduate Student Enrollment: 44 Masters/30 Ph.D.

ABET Accreditation: B.S.N.R.E.

CAMPEP Accreditation: M.S.M.P. and Ph.D. NRE – MP option

Nuclear Science and Engineering Faculty

Farzad Rahnema, Professor and Chair of the Nuclear and Radiological Engineering and Medical Physics Programs (404-894-3731) [farzad@gatech.edu]; Ph.D., University of California, Los Angeles, 1981.

Radiation transport theory; reactor physics; computational medical physics; perturbation and variational methods.

Said I. Abdel-Khalik, Southern Nuclear Distinguished Professor (404-894-3719)

[said.abdelkhalik@me.gatech.edu]; Ph.D., University of Wisconsin-Madison, 1973. Reactor thermal-hydraulics; reactor operations; reactor safety; fusion technology.

Laurent Capolungo, Assistant Professor (+1133 3 87 20 39 49) [laurent.capolungo@me.gatech.edu]

Ph.D., Georgia Institute of Technology, 2007. Computational material science; multi-scale modeling; materials processing; constitutive laws; and material deformation.

Mohammed Cherkaoui, Professor (404-894 -8336)[mohammed.cherkaoui@me.gatech.edu] Ph.D.,

University of Metz, France, 1995. Micro and nanomechanics; multiscale transition methods; crystal plasticity; behavior of materials with high strength and ductility; phase transformation; and smart materials.

Sang Hyun Cho, Associate Professor (404-385-1301) [scho@gatech.edu]; Ph.D., Texas A&M University,

1997. Radiotherapy physics; cancer imaging; nanotechnology.

Seung-Kyum Choi, Assistant Professor (912-966-6771) [seungkyum.choi@me.gatech.edu]; Ph.D., Wright State University, 2006. Probabilistic risk assessment; reliability-based design; multidisciplinary design optimization; and decision support method.

Chaitanya S. Deo, Assistant Professor (404-385-4928) [chaitanya.deo@nre.gatech.edu] Ph.D., University of Michigan, 2003. Structure property relationships in nuclear materials: theory and simulations across electronic; atomic, mesoscopic and continuum scales. Radiation effects in materials for nuclear energy including structural materials and nuclear fuels identifying atomic mechanisms in defect mobility and interaction in crystalline solids and modeling the collective evolution of defects

Srinivas Garimella, Professor (404-894-7479) [srinivas.garimella@me.gatech.edu] Ph.D., The Ohio State University, 1990. Heat transfer; thermal-hydraulics; microchannel phase change.

S. Mostafa Ghiaasiaan, Professor (404-894-3246) [mghiaasiaan@gatech.edu] Ph.D., University of California, Los Angeles, 1983. Heat transfer; two-phase flow; nuclear reactor engineering. Professional Engineer.

Nolan E. Hertel, Professor (404-894-3601) [nolan.hertel@nre.gatech.edu] Ph.D., University of Illinois at Urbana-Champaign, 1979. Radiation spectrometry; transport; dosimetry and shielding; radiation detector simulations and design; neutron measurements and applications; computational dosimetry; radiation protection. Professional Engineer.

Bojan Petrovic, Professor (404-894-8173) [bojan.petrovic@gatech.edu] Ph.D., The Pennsylvania State University, 1995. Reactor physics; transport theory; shielding; Monte Carlo methods; advanced reactor design; nuclear fuel cycle; numerical simulations of nuclear systems.

Glenn E. Sjoden, Professor (404-894-5733) [glenn.sjoden@nre.gatech.edu] Ph.D. The Pennsylvania State University, 1997; Particle transport and numerical methods; nuclear systems analysis: power generation; defense programs; NDT; detection; and medical application; convective heat transfer; computational fluids; and high performance computing applications. Professional Engineer.

Weston M. Stacey, Jr., Regents' and Callaway Professor (404-894-3714) [weston.stacey@nre.gatech.edu] Ph.D., Massachusetts Institute of Technology 1966. Fusion plasma physics; reactor physics and conceptual design for fusion and fission reactors.

C-K Chris Wang, Professor (404-894-3727) [chris.wang@nre.gatech.edu] Ph.D., The Ohio State University, 1989. Radiation physics; detection; protection and dosimetry; micro- and nano-dosimetry; radiobiological modeling; radiation biology; and radiotherapy modalities using neutrons. Professional Engineer.

Lei Zhu, Assistant Professor (404-385-3882) [leizhu@gatech.edu] Ph.D., Stanford University, 2007. Medical imaging; radiation therapy.

Adjunct Faculty Affiliated with the Medical Physics Program

Zongjian (Z.J.) Cao, Professor of Radiology, Medical College of Georgia and Co-director of Medical Physics, MCG Health Inc., Adjunct Professor at Georgia Tech [zcao@mail.mcg.edu] Ph.D., Indiana University, 1986. Certified by the American Board of Science in Nuclear Medicine 1995, Single photon emission computed tomography (SPECT); positron emission tomography (PET); PACS; internal dosimetry estimation.

Anees Dhabaan, Assistant Professor of Radiation Oncology and Director of Medical Physics Residency Program, Emory University School of Medicine; Adjunct Assistant Professor at Georgia Tech (404-778-3535) [anees.dhabaan@emory.edu]; Ph.D., University of Birmingham, England, United Kingdom, 1994; Diplomate, American Board of Radiology 2003; Head physicist for the stereotactic radiosurgery program at Emory University; neutron and photon transport and the use of Monte Carlo method in dense media; clinical services including implementing new technologies.

Eric S. Elder, Assistant Professor of Radiation Oncology and Director of Clinical Medical Physics, Emory University School of Medicine, Adjunct Assistant Professor at Georgia Tech (404-778-2304) [eric@radonc.emory.org]; Ph.D., Georgia Institute of Technology, 1997. Certified by the American Board of Radiology – Therapeutic Radiologic Physics 1997; image-guided radiation therapy (IGRT) methods; endovascular brachytherapy.

Tim Fox, Associate Professor of Radiation Oncology and Director of Medical Physics Division, Department of Radiation Oncology, Emory University School of Medicine, Adjunct Associate Professor at Georgia Tech (404-778-2304) [tim@radonc.emory.org]; Ph.D., Georgia Institute of Technology, 1994. Diplomate, American Board of Radiology 1997; Optimization algorithms; clinical decision making software; dose calculation and advanced treatment planning system; molecular imaging; adaptive radiation therapy.

Tom C.-C. Hu, Project Officer, The Biomedical Advanced Research and Development Authority (BARDA), within the Office of the Assistant Secretary for Preparedness and Response (ASPR) in the U.S. Department of Health and Human Services (HHS) [tom.hu@hhs.gov] Part-Time Assistant Professor of Radiology and Founding Director of Small Animal Imaging Program, Medical College of Georgia; [thu@mail.mcg.edu]; Adjunct Assistant Professor at Georgia Tech; Ph.D., Carnegie Mellon University, 2001; MBA, Villanova University, 2005. Non-invasive magnetic resonance imaging (MRI) in small animals.

Nasser Maleki, Director of Medical Physics, Memorial Health University Medical Center, Adjunct Professor at Georgia Tech (912-350-8490) [malekna1@memorialhealth.com]; Ph.D., University of Nebraska, 1981. Diplomat, American Board of Radiology 1988; Stereotactic radiosurgery; internal organ motion during radiation treatment; quality management in radiation treatment; software development for standardization of medical physics practice.

Other Faculty

William J. Wepfer, Eugene C. Gwaltney, Jr. Chair of the Woodruff School and Professor (404-894-3200) [bill.wepfer@me.gatech.edu] Ph.D., University of Wisconsin-Madison, 1979. Heat transfer; energy systems; and fuel cells.

Armin Ansari, Adjunct Associate Professor; Health Physicist, Radiation Studies Branch, Centers for Disease Control and Prevention (770-488-3654) [AAnsari@cdc.gov]; Ph.D., University of Kansas, 1989; radiation emergency preparedness and response; radiation biology; internal dosimetry.

Dwayne Blaylock, Manager NRE/MP laboratories and Research Engineer II (404-894-3606) [dwayne.blaylock@nre.gatech.edu] M.S. Nuclear Engineering, Georgia Institute of Technology, 1997. Radiation physics; computer modeling; reactor physics; modeling of activation and spallation products.

Justin Hastings, Assistant Professor (404-385-2829) [justin.hastings@inta.gatech.edu] Ph.D., University of California, Berkeley, 2008. Non-state nuclear proliferation; state weakness and proliferation; illicit trafficking; logistics and organizational structures of proliferation networks; application of conventional findings to nuclear issues.

Jarrod Hayes, Assistant Professor (404.894.0289) [jarrod.hayes@gatech.edu]; Ph.D., University of Southern California, 2009, nuclear proliferation; nuclear strategy and arms control; South and East Asia; Europe.

Sheldon M. Jeter, Associate Professor (404-894-3211) [sheldon.jeter@me.gatech.edu] Ph.D., Georgia Institute of Technology, 1979. Heat transfer; thermal hydraulics. Professional Engineer.

Bernd Kahn, Professor Emeritus (404-407-6776) [bernd.kahn@me.gatech.edu] Ph.D., Massachusetts Institute of Technology, 1960. Radiochemistry; radiochemical analysis; radiological monitoring.

Ratib Karam, Professor Emeritus (404-894-3620) [ratib.karam@nnrc.gatech.edu] Ph.D., University of Florida, 1963. Reactor physics; transport theory.

Benjamin Klein, Associate Professor (912-966-7945) [bklein@gatech.edu] Ph.D., University of Illinois at Urbana-Champaign, 2000. Reactor physics; transport theory; optical; optoelectronic; and electronic device simulation and design; wide-bandgap semiconductors; nanowire FETs and LEDs; scintillator characterization and design; photonic crystal devices

Margaret E. Kosal, Assistant Professor (404-894-9664) [margaret.kosal@inta.gatech.edu] Ph.D., University of Illinois at Urbana-Champaign, 2001. Nuclear, chemical, and biological nonproliferation; counterproliferation; counterterrorism; and consequence management; CBRN defensive countermeasures and policy; deterrence; emerging technologies (nanotechnology, including metamaterials; biotechnology, including synthetic genomics; neuro- and cognitive sciences) and international security.

William D. Kulp, Research Scientist II (404-385-3248) [wdkulp@mailaps.org] Ph.D., Georgia Institute of Technology, 2001. Nuclear structure; gamma-ray spectroscopy; nuclear data evaluation; nuclear materials detection; replacement of radioactive sources; accelerator physics.

David L. McDowell, Carter N. Paden Jr. Distinguished Chair in Metals Processing and Regents' Professor (404-894-5128); [david.mcdowell@me.gatech.edu] Ph.D, University of Illinois at Urbana-Champaign, 1983. Effects of radiation on metals. multiscale modeling and materials design

Lawrence P. Rubin, Assistant Professor (404-385-4081) (lawrence.rubin@inta.gatech.edu) Ph.D., University of California, Los Angeles, 2009. Nuclear nonproliferation; terrorism; energy security; and Middle East politics and security.

Dennis Sadowski, Research Engineer II (404-385-1868) [dennis.sadowski@me.gatech.edu]; M.S., University of Illinois at Chicago, 1986. Thermal sciences; and design and construction of experimental equipment.

Richard Sanchez, Adjunct Professor; Research Director, CEA Saclay, Professor at INSTN (+33 1 69085404, [richard.sanchez@cea.fr] Ph.D. University of Washington 1981, Ph.D. University of Orsay 1979; reactor physics; transport theory and numerical methods.

Adam N. Stulberg, Associate Professor and Co-Director of the Center for International Strategy, Technology, and Policy (404-385-0090) [adam.stulberg@inta.gatech.edu]; Ph.D., University of California, Los Angeles, 1996. Nuclear strategy; arms control; and nonproliferation; internationalization of the fuel cycle; illicit nuclear trafficking; nanotechnology and international security.

Christopher J. Summers, Professor (404-385-0697) [chris.summers@mse.gatech.edu] Ph.D., Physics, University of Reading, England, 1966. Phosphors and luminescent materials for displays; solid-state lighting and scintillators; synthesis of nanophosphors and quantum dots; photonic crystals; optical and electrical properties of semiconductors; semiconductor growth; particularly the development of new atomic layer deposition techniques and processes for optimizing photonic crystals and metamaterials.

Tristan Utschig, Assistant Director for the Scholarship and Assessment of Teaching and Learning, Center for the Enhancement of Teaching and Learning (404-385-2949) [tris.utschig@cetl.gatech.edu] Ph.D., University of Wisconsin-Madison, 2000. Faculty development; assessment; scholarship of teaching and learning; thermochemical nuclear safety analysis; hydrodynamics modeling.

Ce Yi, Research Engineer I (404-894-3718) [ce.yi@nre.gatech.edu]; Ph.D., University of Florida, 2007; Radiation transport simulation using deterministic and Monte Carlo methods; deterministic transport algorithms and code development; nuclear multi-group cross section generation; medical imaging simulation; numerical methods and parallel computing.

Nazia Zakir, Radiation Safety Officer, (404-894-3621) [nazia.zakir@ehs.gatech.edu]

M.S. Radiological Physics, Rutgers University, 1999. Operational health physics; radiological safety; radiological monitoring.

Dingkang Zhang, Research Engineer II, (404-894-2087) [dingkang.zhang@gatech.edu] Ph.D., Georgia Institute of Technology, 2005. Computational reactor and medical physics; radiation transport theory; hybrid transport methods.

Ting Zhu, Associate Professor (404-894-6597) [ting.zhu@me.gatech.edu] Ph.D., Massachusetts Institute of Technology, 2004. Mechanical behavior of solids and thin films; nanomechanics of defect in crystals; coupled mechano-chemical phenomena; multiscale and nuclear energy related materials modeling.

Nuclear Science and Engineering Research Centers

Fusion Research Center: [www.frc.gatech.edu], Director, Weston Stacey (NRE), [weston.stacey@nre.gatech.edu] (404-894-3714). Plasma edge physics, plasma and neutral particle transport, fusion neutron source applications, next-step tokamak design analysis, transmutation of spent nuclear fuel.

Pioneer Research in Nuclear Detection: [www.prind.gatech.edu], Director, Nolan E. Hertel (NRE), [nolan.hertel@nre.gatech.edu] (404-894-3601). Neutron detection and spectroscopy, radiation dosimetry, transport and detector simulations, multi-scale materials modeling, semi-conductor and phosphor/scintillator materials, large scale optimization

UNIVERSITY OF IDAHO

Nuclear Engineering
1776 Science Center Drive
Idaho Falls, ID 83402
208-282-7816

FAX: 208-282-7929

Administrative Contact: Akira Tokuhira
208-533-8102

tokuhira@uidaho.edu

Website: www.uidaho.edu/idahofalls/nuclearengineering.aspx

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	0	0	0	0
Masters	0	3	4	4
PhD	0	0	1	0

Graduate Student Enrollment: 41 Masters/9 Ph.D.

Nuclear Science and Engineering Faculty

Indrajit Charit, Assistant Professor (208-885-5964) [icharit@uidaho.edu] Ph.D. Microstructure-Property Correlations, Nuclear Materials, High Temperature Mechanical Behavior of Materials (Creep, Superplasticity, Creep-Fatigue), Nanocrystalline Materials, Advanced Processing Techniques (Mechanical Alloying, Friction Stir Processing), Light Metals, Multi-functional Materials.

John Crepeau, Professor (208-885-5228) [crepeau@uidaho.edu] Ph.D. Transition to turbulence in fluid flow and fluid stability; flow visualization; experimental and theoretical studies of drying and drying processes. Solidification of materials with internal heat generation.

Supathorn Phongikaroon, Assistant Professor (208-533-8123) [supathor@uidaho.edu] Ph.D. Pyroprocessing technology--theoretical and experimental studies in electrorefinery, oxide reduction and chemistry, and ion exchange. Interfacial phenomena and multiphase flow systems involving in nuclear and chemical engineering applications.

Akira Tokuhira, Professor (208-533-8102) [tokuhira@uidaho.edu] Ph.D., Thermo-fluid sciences, experiments, nuclear reactor engineering, design and safety, thermohydraulics, convective heat transfer, applied biometrics, energy processes modeling, CFD, applications of silica and polymer gels.

Vivek Utgikar, Associate Professor (208-533-8117) [vutgikar@uidaho.edu] Ph.D., Development of energy utilization systems - nuclear hydrogen production, utilization and safety; reactor-hydrogen production interface; energy analysis; electrochemical engineering and fuel cells.

Other Faculty

Fred Gunnerson, Emeritus Faculty (208-282-7900) Ph.D. Thermo-fluids, high temperature heat transfer, nuclear science.

Steven Howe, Director (208-526-6103) [steven.howe@inl.gov] Ph.D., Kansas State University, 1980. Nuclear Space, Space nuclear power, and Propulsion. Website: <http://www.csnr.usra.edu/>

Jesse McBurney-Rebol, Instructor (208-533-5769) [jrebol@if.uidaho.edu] MS. Nuclear criticality safety, human factors engineering, spent fuel handling system design, and nuclear engineering management.

Donald McEligot, Distinguished Affiliate Faculty (208-533-8120) [donaldrm@uidaho.edu] Ph.D. Thermal science: convective heat transfer, fluid mechanics, turbulent, laminar and transitional shear flow: experimental, analytical and computational.

Nuclear Science and Engineering Research Centers

Center for Advanced Energy Studies – Website: www.uidaho.edu/idahofalls/caes

IDAHO STATE UNIVERSITY

Nuclear Engineering

921 S. 8th Avenue

Pocatello, ID 83209

208-282-2902

Fax: 208-282-4538

Administrative Contact: Jay Kunze

208-282-4147

kunzejay@isu.edu

Website: www.engr.isu.edu/pages/nuclear-engineering.php

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	6	3	8	4
Masters	1	5	2	8
PhD	0	3	2	1

Graduate Student Enrollment: 25 Masters/5 Ph.D.

ABET Accreditation: B.S. in NE

Nuclear Science and Engineering Faculty

Jay F. Kunze, Interim Chair, Nuclear Engineering Department (208-282-4147); [kunzejay@isu.edu] Ph.D., Carnegie-Mellon, 1959. Reactor engineering, reactor physics, health physics, medical physics. Professional Engineer. Website: www.engr.isu.edu/pages/nuclear-engineering.php

Eric A. Burgett, Assistant Professor (208-282-2220); [burgeric@isu.edu]; Ph.D., Georgia Institute of Technology, 2010. Radiation Detector Development; Scintillator Detectors; Semiconductor Detectors; Novel Detector Materials; Nanophotonics; Homeland Security; Nuclear Nonproliferation; Nuclear Fuels; Nuclear Materials; Detector Calibrations; Neutron Spectroscopy; Health Physics.

Mary Lou Dunzik-Gougar, Assistant Professor (208-282-7809); [mldg@isu.edu]; PhD, Pennsylvania State University, 2003. Nuclear fuel cycle; Radioactive waste management; Waste form development; Irradiated nuclear graphite.

Jason T. Harris, Assistant Professor (208-282-3364); [harrjaso@isu.edu]; Ph.D., Purdue University, 2007. Health physics (reactor and environmental); radiation detection and measurement; instrumentation; accelerator applications. Website: http://www.physics.isu.edu/staff/Jason_H.html

George Imel R. Imel, Professor, (208-705-2344); [gimel@isu.edu]; Ph. D., Pennsylvania State University, 1971. Experimental reactor physics, fast reactor physics.

Richard T. Jacobsen, Professor (208-282-4191); [jacorich@isu.edu]; Ph.D. (Engineering Science), Washington State University, 1972. Thermophysical Properties of Fluids and Fluid Mixtures; Thermophysical Properties of Hydrogen; Thermophysical Properties of Natural Gas Mixtures; Energy

System Design and Analysis; Methods of Developing Thermophysical Property Formulations and Equations of State for Engineering System Design and Analysis. Professional Engineer.

Brian G. Williams Associate Professor, Mechanical Engineering (208-282-4129); [willbria@isu.edu]; Ph.D., Mechanical Engineering, Utah State University, 1997. Thermodynamics, Heat Transfer, Fluid Flow; Thermal-Fluid Experimentation; Applications to Energy Systems. Professional Engineer.

Other Faculty

Steve Aumeier, Adjunct Faculty (208-522-7479); Ph.D.

Bob Boston, Advanced Test Reactor Team Leader (208-533-4250) [bostonrd@id.doe.gov]; MS

Kermit, Bunde, Criticality Safety SME (208-526-5188) [bundaka@id.doe.gov]; MS

Todd C Gansauge, Instructor (208-282-2968) [ganstodd@isu.edu]; Masters of Science Mechanical Engineering, University of Utah, 1990. Reactor Physics; Radiation detection. Professional Engineer.

J. Stephen Herring, Adjunct Faculty (208-526-9497); Ph.D.

Harold Larson, Adjunct Faculty (208-523-0694); Ph.D. Reactor Kinetics

Michael J. Lineberry, Research Professor (208-533-8114) [mjl@isu.edu]; Ph.D., California Institute of Technology, 1972. Fast reactor fuel cycle, safeguards, and reactor physics.

D. Scott Lucas, Adjunct Faculty (208-526-2366); Ph.D.

Adam Mallicoat, Reactor Supervisor (913-638-6800) [malladam@isu.edu]; BS in Mechanical Engineering, Kansas State University, 2008. MCNP Simulations.

Kathryn A. McCarthy, Adjunct Faculty (208-526-9392); Ph.D.

Abderrafi M Ougouag, Adjunct Professor (208-526-7659) [Abderrafi.Ougouag@inl.gov]; Ph.D., University of Illinois, Urbana, 1984. Computational methods development in reactor physics; Theoretical and applied neutron physics; High temperature gas-cooled reactor physics.

Nuclear Science and Engineering Research Centers

AGN-201M, 0.005 kW: Dr. Jay Kunze, Director
Lillibridge Engineering Laboratory, Pocatello, ID 83208-8060
(208) 282-4147/FAX: (208) 282-4538
kunzejay@isu.edu

Idaho Accelerator Center: Director, Doug Wells, Ph.D. (208-282-5875); Radiation effects, NDT/NDE elemental analysis, imaging, nuclear medicine (such as BNCT), health physics, instrument testing and calibration. FY2005 Research Expenditures: ~\$8 million.

Environmental Assessment and Monitoring Laboratory: Director, Richard Brey, Ph.D. (208-282-2667). Low level radiation monitoring, instrument calibration, trace element analysis. High range dosimetry support for the Idaho Accelerator Center. Annual Research Expenditures: \$500,000.

Environmental Monitoring Laboratory: Director: Tom Gesell, Ph.D. (208-282-3669). Low level radiation monitoring, radioanalytical analysis, instrument calibration, trace element analysis. Research Expenditures: \$300,000.

Skyline Laboratory: Director: Director, Brian Williams, Ph.D. Vertical and horizontal thermal hydraulic test loops, laser isotope enrichment laboratory. Research expenditures ~\$400,000.

UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN

Nuclear, Plasma, and Radiological Engineering

104 S. Wright Street

Urbana, IL 61801

217-333-2295

FAX: 217-333-2906

Administrative Contact: Idell Dollison

217-265-0519

dollison@illinois.edu

Website: <http://npre.illinois.edu/>

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	17	31	19	12
Masters	11	12	3	8
PhD	8	6	4	10

Graduate Student Enrollment: 13 Masters/52 Ph.D

ABET Accreditation: B.S. (N.E.)

Distance Education Program

Offers Nuclear Engineering Courses Online

Nuclear Science and Engineering Faculty

James F. Stubbins, Department Head and Professor (217-333-6474) [jstubbin@illinois.edu] Ph.D., University of Cincinnati, 1975. Development, analysis and application of materials, primarily for energy-related applications; nuclear systems design and analysis; nuclear materials; irradiation damage and effects, mechanical properties; high temperature corrosion; electron microscopy. Professional Engineer. Website: <http://materials.ne.uiuc.edu>

Roy A. Axford, Professor (217-333-4399) [r-axford@illinois.edu - prefers phone or regular mail] Sc.D., Massachusetts Institute of Technology, 1958. Reactor physics, safety, and risk assessment; radiation hydrodynamics; heat transfer; optimal reactor control; synthesis and nuclear fuel management; hydrodynamic stability; lie groups and systems of nonlinear differential equations; plasma physics; group invariant difference schemes. Website: <http://npre.illinois.edu>

Brent J. Heuser, Associate Professor (217-333-9610) [bheuser@illinois.edu] Ph.D., The University of Michigan, 1990. Hydrogen in metals; hydrogen trapping at defects; metal hydrides; transmission electron microscopy studies of metal defects; neutron scattering; metal thin-film multilayer structures. Website: <http://positron.ne.uiuc.edu>

Barclay G. Jones, Professor (217-333-3535) [bgjones@illinois.edu] Ph.D., University of Illinois at Urbana-Champaign, 1966. Thermal hydraulics/reactor safety; multiphase flow; boiling heat transfer; turbulence measurement and modeling; flow-induced vibrations and hydroacoustics; human-machine interfaces for reactor control and simulation; food irradiation safety. Website: <http://npre.illinois.edu>

Ling-Jian Meng, Assistant Professor (217-333-7710) [ljmeng@illinois.edu] Ph.D., University of Southampton-UK, 2001. High resolution X and gamma ray detectors for radiological imaging applications; ultra-high resolution SPECT system for small animal brain studies; multi-modality imaging systems; nuclear imaging system. Website: <http://radimg.ne.uiuc.edu>

Magdi Ragheb, Associate Professor (217-333-6569) [mragheb@illinois.edu] Ph.D., University of Wisconsin, 1978. Computational methods; radiation protection and shielding; probabilistic risk assessment; applied artificial intelligence; supercomputing. Website: <https://netfiles.uiuc.edu/mragheb/www/>

David N. Ruzic, Professor (217-333-0332) [druzic@illinois.edu] Ph.D., Princeton University, 1984. Experimental fusion research; modeling of edge plasma; atomic properties of potential first-wall materials; plasma-material interaction; plasma processing of semiconductors; extreme ultraviolet (EUV) sources for lithography; physical and chemical vapor deposition. Website: <http://cpmi.ne.uiuc.edu>

Clifford E. Singer, Professor (217-333-1814) [csinger@illinois.edu] Ph.D., University of California, Berkeley, 1971. Advanced spacecraft propulsion systems, spent nuclear fuel management, nuclear proliferation, energy systems analysis, and energy econometrics. Website: <http://npre.illinois.edu>

Rizwan Uddin, Professor (217-244-4944) [rizwan@illinois.edu] Ph.D., University of Illinois at Urbana-Champaign, 1987. Advanced computational methods; theoretical and CFD; radiation transport and reactor physics; reactor engineering; multiphase flow; reliability and risk analysis; virtual reactor simulation. Website: <http://verl.npre.illinois.edu/>

Other Faculty

Michael Aref, Adjunct Assistant Professor (217-333-2295) [maref@illinois.edu] Ph.D. and M.D., University of Illinois at Urbana-Champaign and College of Medicine, 2006. Quantitative biomedical imaging; spectroscopic detection; functional imaging; improved diagnostic tumor physiology parameter estimation.

Thomas J. Dolan, Adjunct Professor (217-333-2295) [dolantj@illinois.edu] Ph.D., University of Illinois at Urbana-Champaign, 1970. Plasma confinement methods and fusion reactor designs; low energy nuclear reactions. Website: <https://wiki.engr.illinois.edu/display/npre421/Professor+Dolan+Homepage>

Masab H. Garada, Adjunct Assistant Professor (217-333-2295) [masab.garada@provena.org] Ph.D., University of Illinois at Urbana-Champaign, 2006. Intensity modulated radiation therapy (IMRT); image guided radiation therapy (IGRT); three-dimensional conformal radiation therapy; linac radiosurgery and stereotactic; low dose-rate brachytherapy: prostate seed implants, medium dose-rate brachytherapy; cervical cesium implants, high dose-rate brachytherapy; iridium lung implants, tumor and normal tissue response and radiobiological models.

Daniel F. Hang, Emeritus Professor (217-333-3348) [d-hang@illinois.edu] M.S., University of Illinois at Urbana-Champaign, 1949. Fuel cycle and economics. Professional Engineer.
Website: <http://npre.illinois.edu>

Brian E. Jurczyk, Adjunct Research Assistant Professor (217-333-2295) [bjurczyk@starfireindustries.com] Ph.D., University of Illinois at Urbana-Champaign, 2003. Advanced plasma debris mitigation; advanced tin and lithium fuels research; optics contamination; erosion and lifetime research; self-healing optics research; halide etching and condensable material removal; fast ion suppression with light gas mixtures. Website: <http://www.starfireindustries.com>

Charles P. Marsh, Adjunct Professor (217-333-2295) [Charles.P.Marsh@usace.army.mil] Ph.D., University of Illinois at Urbana-Champaign, 1989. Ferroelectric crystal degradation and effects on electron emission; bulk metallic glass formation; synthesis and modeling of CNT based structural materials; quantum dot based self-sensing materials; corrosive degradation, assessment and mitigation; conventional and enhanced pumped thermal flow using Microencapsulated Phase Change Materials (MPCM) and nanofluids.

George H. Miley, Emeritus Professor (217-333-3772) [ghmiley@illinois.edu] Ph.D., The University of Michigan, 1959. Fusion systems; plasma engineering; reactor kinetics; high voltage technology; nuclear pumped lasers; direct energy conversion; hydrogen energy production; low-energy nuclear reactions in solids. Professional Engineer. Website: <http://lenr.ne.uiuc.edu/>

David W. Miller, Adjunct Assistant Professor (217-333-1098) [dwmiller2@aep.com] Ph.D., Purdue University, 1976. Occupational dose reduction at nuclear power plants; colloidal source term removal and mitigation studies in primary coolant at light water reactors; tritium recapture modeling at pressurized water reactors; UNSCEAR US effluent databases and analysis; radiological work management research at nuclear power plants; medical shielding validation studies; ACCESS relational database development for dose trend analysis.

Richard F. Nelson, Adjunct Professor (217-351-0846) [rfnelson@illinois.edu] Ph.D., University of Illinois at Urbana-Champaign, 1984. Radiological physicist; Radiation oncology-external beam and internal sources; diagnostic radiology; consultant physicist.

Martin J. Neumann, Adjunct Assistant Professor (217-840-5490) [mneumann@illinois.edu] Ph.D., University of Illinois at Urbana-Champaign, 2007. EUVL related technologies; semiconductor fabrication and processing and plasma-material interactions related to fusion applications.

William R. Roy, Adjunct Professor (217-333-1197) [wroy@illinois.edu] Ph.D., University of Illinois at Urbana-Champaign, 1985. Geochemistry and soil/environmental chemistry; equilibrium distribution and thermodynamics of chemical constituents at solid-liquid interfaces; solid-phase equilibria of natural and anthropogenic materials in aqueous; solution; environmental impacts of coal utilization; chemical fate and transport of contaminants in soil and groundwater; carbon sequestration; radioactive waste management.

Robert A. Stubbers, Adjunct Research Assistant Professor (217-333-2295) [rstubbers@starfireindustries.com] Ph.D., University of Illinois at Urbana-Champaign, 1994. Plasma innovations for aerospace; defense, industrial, instrumentation, medical; semiconductor applications. Website: <http://www.starfireindustries.com>

Nuclear Science and Engineering Research Centers

The **Center for Plasma Material Interactions (CPMI)**, <http://cpmi.illinois.edu>, objective is to study plasma material interactions relevant to fusion, semiconductors, and plasma manufacturing through a combination of computational and experimental means. Projects are supported by both government and commercial partners to further the application and knowledge of plasma physics.

The **North American Technical Center (NATC) for the Information System on Occupational Exposure (ISOE)** is located at the Department of Nuclear, Plasma, and Radiological Engineering. NATC is one of four technical centers for the Organisation for Economic Co-operation and Development (OECD) Nuclear Energy Agency and International Atomic Energy Agency (IAEA) global occupational dose reduction information exchange engineering database. NATC manages the Canadian, Mexican, and US nuclear power plants data analysis. Website at isoe-network.net

KANSAS STATE UNIVERSITY

Mechanical and Nuclear Engineering
3002 Rathbone Hall
Manhattan, KS 66506
785-532-5610
FAX: 785-532-7057
Administrative Contact: Donald Fenton
785-532-5610
fenton@ksu.edu
Website: www.mne.ksu.edu

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	0	0	0	0
Masters	4	1	3	7
PhD	0	0	1	1

Graduate Student Enrollment: 5 Masters/12 Ph.D.
ABET Accreditation: ME

Distance Education Program

Offers Nuclear Engineering Courses Online
www.mne.ksu.edu/big12ne

Nuclear Science and Engineering Faculty

John K. Shultis, Professor and Nuclear Program Director (785-532-5626) [jks@ksu.edu]; Ph.D., University of Michigan, 1969. Radiation transport and shielding; Monte Carlo techniques; radiation detector design; simulations and modeling. Website: www.mne.ksu.edu/~jks

Ali E. Abdou, Assistant Professor (785-532-7182); [aeabdou@ksu.edu]; Ph.D., University of Wisconsin-Madison, 2005. Nuclear Fusion; High Temperature Plasma Physics; Plasma Aided Nanofabrication; Pulsed Power Discharges; Multi-Radiation Plasma Sources. Website: <http://www.mne.ksu.edu/people/faculty/abdou>

William L. Dunn, Associate Professor (785-532-5628); [dunn@mne.ksu.edu]; Ph.D., North Carolina State University, 1974. Radiation measurement and applications; explosives detection; nondestructive evaluation; quantitative analysis; radiation shielding and dosimetry; Monte Carlo methods and applications; fusion-fission energy systems. Website: www.mne.ksu.edu/people/faculty/dunn

Douglas S McGregor, Professor (785-532-4093) [mcgregor@ksu.edu]; Ph.D., University of Michigan, 1993. Development of room temperature gamma ray spectrometers; semiconductor radiation detectors; solid-state neutron detectors; miniaturized neutron detectors; scintillator crystal growth; compound semiconductor crystal growth; radiation detector arrays.

Website: <http://www.mne.ksu.edu/people/faculty/mcgregor>

Nuclear Science and Engineering Research Centers

SMART Lab: design, fabrication and testing of novel radiation detectors. TRIGA MArk II Reactor Facility: 1.25 MS steady power and pulsing capability.

UNIVERSITY OF MARYLAND

Materials Science and Engineering
1113 Chem/Nuc Eng. Building
College Park, MD 20742
301-405-5989
FAX: 301-314-2029
Administrative Contact: :Aris Christou
301-405-5208
christou@umd.edu
Website: www.mse.umd.edu

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	0	0	0	0
Masters	1	0	3	4
PhD	0	0	0	0

Graduate Student Enrollment: 7 Masters/10 Ph.D.
ABET Accreditation: Materials Science and Engineering

Distance Education Program

Offers Nuclear Engineering Courses and Degree Online
<http://www.oaee.umd.edu/>

Nuclear Science and Engineering Research Centers

University of Maryland Radiation Facilities: Laboratory for Radiation and Polymer Science; High-Energy Linear Accelerator (LINAC); The Biophysical and Polymer Radiation Laboratory

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Department of Nuclear Science and Engineering

77 Massachusetts Avenue, Room 24-107

Cambridge, MA 02139-4307

617-253-7522

FAX: 617-258-7437

Administrative Contact: Clare Egan

617-253-3814

cegan@mit.edu

Website: <http://web.mit.edu/nse>

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	20	14	15	10
Masters	25	22	24	23
PhD	12	11	15	15

Graduate Student Enrollment: 58 Masters/51 Ph.D.

ABET Accreditation: SB

Nuclear Science and Engineering Faculty

Richard K. Lester, Japan Steel Industry Professor and Head of the Department of Nuclear Science and Engineering and director of Industrial Performance Center (617-253-7704) [rklester@mit.edu] Ph.D., Massachusetts Institute of Technology, 1979. The organization and management of systems of innovation; and the public and private management of energy technologies.

Website: <http://web.mit.edu/nse/lester/index.html>

Ronald G. Ballinger, Professor of Nuclear Science and Engineering and Materials Science and Engineering (617-253-5118) [hvymet@mit.edu] Sc.D., Massachusetts Institute of Technology, 1982. Corrosion and fatigue. Fuel behavior modeling, environmental effects on materials performance.

Website: <http://web.mit.edu/nse/people/faculty/ballinger.html>

Jacopo Buongiorno, Associate Professor of Nuclear Science and Engineering and Mechanical Engineering (617-253-7316) [jacopo@mit.edu] Ph.D., Massachusetts Institute of Technology, 2000. Multi-phase flow and heat transfer; advanced reactor design; reactor thermal-hydraulic; nanofluid technology. Website: <http://web.mit.edu/nse/people/faculty/buongiorno.html>

Paola Cappellaro, Assistant Professor (617-253-8137) [pcappell@mit.edu] Ph.D., Massachusetts Institute of Technology. Quantum control; quantum information; precision measurement; nuclear magnetic resonance. Website: <http://web.mit.edu/nse/people/faculty/cappellaro.html>

Benoit Forget, Assistant Professor (617-253-1655) [bforget@mit.edu] Ph.D., Georgia Institute of Technology, 2006. Computational transport theory; Reactor Physics and Nuclear Fuel Cycle. Website: <http://web.mit.edu/nse/people/faculty/forget.html>

Jeffrey P. Freidberg, Professor and Associate Director of the MIT Plasma Science and Fusion Center (617-253-8670) [jpfreid@mit.edu] Ph.D., Polytechnic Institute of Brooklyn, 1964. Plasma Physics; Fusion Technology. Website: http://www.psfc.mit.edu/people_new/faculty/jf.html

Michael W. Golay, Professor (617-253-5824) [golay@mit.edu] Ph.D., Cornell University, 1969. Nuclear power innovation, risk and regulation, non-proliferation. Website: <http://web.mit.edu/nse/people/faculty/golay.html>

Linn W. Hobbs, Professor of Nuclear Science and Engineering and Materials Science and Engineering (617-253-6835) [hobbs@mit.edu] D.Phil., Oxford University, UK 1972. Radiation effects in materials (principally ceramics, but also metals and organics); extended defects and non-stoichiometry in nonmetallic solids; atomistic and topological modeling of glass structures; high-temperature corrosion; orthopaedic biomaterials and biomineralization. Website: <http://web.mit.edu/hobbsgroup/>

Ian H. Hutchinson, Professor and Co-Principal of the Alcator-C Mod Program (617-253-8670) [ihutch@mit.edu] Ph.D., Australian National University, 1976. Plasma physics and controlled fusion. Website: <http://web.mit.edu/nse/people/faculty/hutchinson.html>

Alan Pradip Jasanoff, Associate Professor of Biological Engineering (617-452-2538) [jasanoff@mit.edu] Ph.D., Harvard University. Functional Magnetic Resonance Imaging (MRI); molecular neuroimaging; behavioral and systems neuroscience. Website: <http://web.mit.edu/jasanofflab/>

Mujid S. Kazimi, TEPCO Professor of Nuclear Engineering and Mechanical Engineering; Director of Center for Advanced Nuclear Engineering Systems – CANES (617-253-4206) [kazimi@mit.edu] Ph.D., Massachusetts Institute of Technology, 1973. Nuclear reactor thermal and safety performance; Nuclear fuel design and analysis; nuclear fuel cycle optimization. Website: <http://web.mit.edu/canes/>

Anne E. White, Assistant Professor (617-253-8667) [whitea@psfc.mit.edu] Ph.D., University of California, Los Angeles, 2008. Plasma physics, turbulence and turbulence-driven transport, fluctuation diagnostics for magnetic confinement fusion experiments. Website: <http://web.mit.edu/nse/people/faculty/white.html>

Dennis G. Whyte, Professor; Director, Plasma Surface Interactions Science Center (617-252-1748) [whyte@psfc.mit.edu] Ph.D., Université du Québec, 1992. Plasma-surface interactions physics and diagnostics for magnetic fusion energy; accelerator-based simulation of plasma-surface interaction in fusion reactors. Website: <http://web.mit.edu/nse/people/faculty/whyte.html>

Bilge Yildiz, Norman K. Rasmussen Assistant Professor of Nuclear Science and Engineering (617-324-4009) [byildiz@mit.edu] Ph.D., Massachusetts Institute of Technology, 2002. Conducting oxide surfaces

for enhanced activity and durability in high temperature electrocatalytic devices for hydrogen, synthetic gas (H₂+CO), and electricity production; engineered micro- and nano-structures in alloys for improved resistance against corrosion and stress corrosion cracking in nuclear and other energy systems subject to harsh environments. Website: <http://web.mit.edu/nse/people/faculty/yildiz.html>

Other Faculty

George Apostolakis, Professor of Nuclear Science and Engineering and Engineering Systems (currently Commissioner of the Nuclear Regulatory Commission) (617-252-1570) [apostola@mit.edu] Ph.D., California Institute of Technology, 1973. Methods for probabilistic risk assessment of complex technological systems; risk management involving several stakeholder groups; decision analysis, human reliability models; organizational factors and safety culture; software dependability; risk-informed, performance-based regulation; risk assessment and management of terrorist threats Website: <http://web.mit.edu/nse/people/faculty/apostolakis.html>

John A. Bernard, Jr., Principal Research Engineer (617-253-4202) [bernardj@mit.edu] Ph.D., Massachusetts Institute of Technology. Closed-Loop Digital Control of Nuclear Reactors; Use of Nuclear Energy for the Exploration of Space; Artificial Intelligence Applications to Nuclear Reactors; Nuclear Medicine, particularly Neutron Capture Therapy; Health Physics; Radiation Biology; Operator Training; Reactor Operations; Energy Planning; and the Interaction of Technology and Law. Website: <http://web.mit.edu/nse/people/researchstaff/bernard.html>

Peter Catto, Senior Research Scientist (617-253-5825)[catto@psfc.mit.edu] Ph.D. Plasma and neutral flows; electric fields, and edge physics issues in diverted tokamak plasmas, and dipole stability. Website: http://www.psfc.mit.edu/people_new/faculty/catto.html

Sow-Hsin Chen, Professor of Nuclear Science and Engineering Emeritus (617-253-3810) [sowhsin@mit.edu] Ph.D., McMaster University, 1964. Thermal Neutron Spectroscopy of Soft Condensed Matter. Website: <http://web.mit.edu/nse/people/faculty/chen.html>

Daniel R. Cohn, Senior Research Scientist; Head, Plasma Technology and Systems (617-715-5292) [cohn@psfc.mit.edu] Ph.D. Plasma enhanced reformation of hydrocarbon fuels into hydrogen, compact plasmatron fuel reformers, applications of on board generation of hydrogen for diesel engine emissions reduction and clean, high efficiency gasoline engine operation, plasma enhanced reforming of biofuels, plasma technology for high sensitivity detection of explosives and other homeland security/defense applications.

Michael J. Driscoll, Professor of Nuclear Science and Engineering Emeritus (617-253-4219) [mickeyd@mit.edu] Ph.D. Deep borehole waste disposal; Fast reactor physics and engineering.

Charles W. Forsberg, Research Scientist; Executive Director, MIT Nuclear Fuel Cycle Project (617-324-4010) [cforsber@mit.edu] Sc.D., Massachusetts Institute of Technology, 1974. Development of integrated nuclear fuel cycles, advanced high-temperature nuclear reactors using liquid-salt coolants, and development of global nuclear-renewables energy systems. Professional Engineer.

Website: <http://web.mit.edu/nse/people/faculty/forsberg.html>

Aydin Karahan, Research Scientist (617-258-0752) [karahan@mit.edu] Ph.D., Massachusetts Institute of Technology, 2009. Fuel Performance Modeling, Thermal-hydraulics, Neutronics; Modeling and Simulation of Multi-physics Multi-scale Systems; System Optimization.

Website: <http://web.mit.edu/nse/people/researchstaff/karahan.html>

Richard C. Lanza, Senior Research Scientist (617-253-2399) Ph.D. Radiation imaging; radiation detectors; nondestructive testing; radiological and industrial applications of radiation; development of new radiation sources.

Joseph V. Minervini, Senior Research Scientist (617-253-5503) [minervini@psfc.mit.edu] Ph.D., Massachusetts Institute of Technology. Applied superconductivity, superconductor stability and AC losses, cryogenic heat transfer, helium fluid dynamics, electromagnetics, low temperature measurements, superconducting magnet design and development for fusion technology and other large scale and power applications.

Ronald R. Parker, Professor Emeritus of Nuclear Science and Engineering and Electrical Engineering and Computer Science (617-258-6662) [parker@mit.edu] Sc.D., Massachusetts Institute of Technology, 1967. Plasma physics and controlled thermonuclear fusion.

Neil E. Todreas, Professor of Nuclear Science and Engineering and Professor of Mechanical Engineering Emeritus (617-253-5296) [todreas@mit.edu] Ph.D. Reactor engineering; reactor thermal analysis; heat transfer and fluid flow.

Sidney Yip, Professor Emeritus of Nuclear Science and Engineering, and Materials Science and Engineering (617-253-3809) [syip@mit.edu] Ph.D., University of Michigan 1962. Statistical physics and condensed matter of sciences, atomistic simulations.

Website: <http://web.mit.edu/nse/people/faculty/yip.html>

Nuclear Engineering Research Centers

Plasma Science and Fusion Center [<http://web.psfc.mit.edu/>], Director, Professor Miklos Porkolab (Physics) [porkolab@psfc.mit.edu]. The Plasma Science and Fusion Center carries out a broad range of research in the science of plasmas, plasma based technologies, and fusion science and technology. With a budget of \$32.8-million in FY06, the Center conducts experimental and theoretical research in understanding the physics of plasmas and its applications to magnetic and inertial confinement fusion, the physics of waves and beams, development of state-of-the-art superconducting magnet systems, and development of plasma technologies for environmental monitoring and pollution control and remediation. Foremost among these research activities is the Alcator Project, an experimental tokamak device for magnetic confinement fusion research and a National Facility, which accounts for more than half of the Center's FY06 research budget at \$19.8-million.

Center for Advanced Nuclear Energy Systems [<http://web.mit.edu/canes/>], Director, Professor MujidKazimi (NSE). CANES has four research program areas: Advanced Reactor Systems, Nuclear Fuel Cycles, Enhanced Performance of Nuclear Power Plants, and Nuclear Energy and Sustainability. The Center offers three short summer professional courses: Nuclear Systems Safety, Reactor Technology for Power Plant Executives, and Probabilistic Methods for Nuclear Plant Management. Annual Research Expenditure: \$5,000,000.

Industrial Performance Center (IPC) [<http://web.mit.edu/ipc>], Director, Richard K. Lester (Japan Steel Industry Professor of Nuclear Science and Engineering and Head, Department of Nuclear Science and Engineering). The Industrial Performance Center (IPC) is an MIT-wide research unit, based in the School of Engineering. The Center serves as a focus at MIT for interdisciplinary research on the rapidly changing global economy. Our interdisciplinary teams observe, analyze and report on strategic, technological, and organizational developments in a broad range of industries and examine the implications for society and the global economy. The IPC currently has four main research areas: local innovation systems; globalization and global value chains; energy innovation systems; and energy and industrial development in China.

MIT Research Reactor Director Prof. David E. Moncton [dem@mit.edu] Two medical irradiation facilities for NCT research and clinical trials, the fission converter based epithermal neutron beam has the highest intensity in the world. There are 11 beam port, 4 pneumatic tubes, 4 vertical thimbles in the graphite reflector, a prompt gamma neutron activation analysis facility, a neutron activation analysis lab, a gamma irradiation facility, and unique in-core irradiation loops for water chemistry, materials, and advanced nuclear fuel research.

UNIVERSITY OF MASSACHUSETTS, LOWELL

Nuclear Science and Engineering Programs

1 University Avenue

Lowell, Massachusetts 18540

978-934-3166

FAX: 978-934-3047

Administrative Contact:

Gilbert Brown, Nuclear Engineering

978-934-3166

gilbert_brown@uml.edu

Clayton French, Radiological Science

978-934-3286

clayton_french@uml.edu

Website:

http://www.uml.edu/catalog/undergraduate/colleges/engineering/chemical_engineering/nuclear_engineering/default.htm

http://www.uml.edu/college/arts_sciences/Physics/Radiological_Sciences/default.html

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	4	5	9	11
Masters	6	6	15	11
PhD	0	2	0	1

Graduate Student Enrollment: 30 Masters/20 Ph.D.

ABET Accreditation: BS Nuclear Engineering Option, BS Health Physics,
MS Health Physics

Distance Education Program

Offers Nuclear Engineering Courses Online

Nuclear Science and Engineering Faculty

Gilbert J. Brown, Professor (978-934-3166) [Gilbert_Brown@uml.edu] Ph.D., Massachusetts Institute of Technology, 1974. Nuclear workforce development; public acceptance; material characterization; safety energy economics.

Partha Chowdhury, Professor (978-934-3730) [Partha_Chowdhury@uml.edu] Ph.D., S.U.N.Y. Stonybrook, 1979. Gamma-ray spectroscopy; nuclear structure.

James Egan, Professor (978-934- 3774) [James_Egan@uml.edu] Ph.D., University of Kentucky. Experimental nuclear physics; neutron physics; spectroscopy; detection.

Clayton S. French, Jr., Professor (978-934-3286) [Clayton_French@uml.edu] Ph.D., University of Lowell, 1985. Internal dosimetry; health physics.

Gunter Kegel, Professor (978-934- 3280) [Gunter_Kegel@uml.edu] Ph.D., Massachusetts Institute of Technology. Experimental nuclear physics, radiation effects in materials.

Erno Sajo, Professor (978-934-3288) [Erno_Sajo@uml.edu] Ph.D., University of Lowell , 1989. Radiation transport; medical physics, aerosol physics; radiation biology.

James R. Sheff, Professor (978-934-3169) [James_Sheff@uml.edu] Ph.D., University of Washington , 1965. Transport phenomena; control systems; separations and laboratory processes.

Mark Tries, Associate Professor (978-934-3353) [Mark_Tries@uml.edu] Ph.D., University of Massachusetts, Lowell, 2000. External dosimetry; shielding; radiochemistry.

John R. White, Professor (978-934-3165) [John_White@uml.edu], Ph.D., University of Tennessee , 1976. Research reactor digital control and data acquisition; computational reactor physics; computer methods; reactor modeling.

Other Faculty

Leo Bobek, Adjunct Professor and Nuclear Reactor Supervisor (978-934-3365) [Leo_Bobek@uml.edu] M.S., University of Lowell. Research reactor operations.

David C. Medich, Adjunct Professor and Radiation Safety Officer (978-934-3372) [David_Medich@uml.edu] Ph.D., University of Lowell. Radiation Safety; medical physics; MCNP modeling.

Thomas Regan, Adjunct Professor and Chief Reactor Operator (978-934-3548) [Thomas_Regan@uml.edu] M.S., University of Lowell. Research Reactor operations; materials.

Nuclear Science and Engineering Research Centers

The **UMass Lowell Radiation Laboratory** provides controlled radiation environments and analytical measurement services to government organizations and to industry. The laboratory provides facilities for proton, neutron and gamma environments and has been used for pure and applied nuclear physics research, for simulating radiation conditions of hostile space environments, for non-destructive testing and analysis, for research and development of radiation resistant electronics and materials, and for research and development of radiation induced modifications to materials.

Website: <http://www.uml.edu/centers/RadLab/default.html>

McMASTER UNIVERSITY

Engineering Physics
1280 Main St West
Hamilton, Ontario L8S4K1
905-525-9140
FAX: 905-527-8409
Administrative Contact: Marilyn Marlow
905-525-9140
marlowm@mcmaster.ca
Website: engphys.mcmaster.ca/

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	10	12	19	25
Masters	2	4	5	10
PhD	0	0	2	3

Graduate Student Enrollment: 22 Masters/15 Ph.D.

Distance Education Program

Offers Nuclear Engineering Courses and Degrees Online
www.unene.ca

Nuclear Science and Engineering Faculty

Dr. Adriaan Buijs (905-525-9140 x24925) [buijsa@mcmaster.ca] Ph.D., Utrecht University, 1987. The physics of nuclear reactor cores, in particular of heavy-water moderated pressure-tube reactors (CANDU); development of analysis tools for research in reactor physics.

Website: http://engphys.mcmaster.ca/faculty_staff/faculty/buijs/index.htm

John C. Luxat, Professor (905-525-9140 x 24670) [luxatj@mcmaster.ca] Ph.D., University of Windsor, 1972. Nuclear safety; Severe accidents; Thermalhydraulics; Advanced fuel cycles; Safety analysis methodology; Reactor core physics. Professional Engineer.

David R. Novog, Associate Professor (905-525-9140) [novog@mcmaster.ca] Ph.D., McMaster University, 1999. Nuclear safety; thermalhydraulics; reactor physics; reactor control; uncertainty analysis; safety system design and performance; critical heat flux; computational fluid dynamics; computer code coupling. Professional Engineer.

Website: engphys.mcmaster.ca/faculty_staff/faculty/novog/index.htm

Nuclear Science and Engineering Research Centers

University Network of Excellence in Nuclear Engineering (UNENE)

Center for Advanced Nuclear System Nuclear Ontario

McMaster Institute for Energy Studies

UNIVERSITY OF MICHIGAN

Nuclear Engineering and Radiological Sciences
2355 Bonisteel Boulevard
Ann Arbor, Michigan 48109-2104
(734) 764-4260
FAX: (734) 763-4540
Administrative Contact: Caroline Joaquin
(734) 936-0122
cjoaquin@umich.edu
Website: <http://www.ners.engin.umich.edu>

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	15	30	28	41
Masters	25	15	21	39
PhD	10	10	7	10

Graduate Student Enrollment: 22 Masters/99 Ph.D.
ABET Accreditation: B.S.E. (N.E.R.S)

Nuclear Science and Engineering Faculty

Ronald M. Gilgenbach, Department Chair and Professor (734-763-1261) [rongilg@umich.edu] Ph.D., Columbia University, 1978. Plasmas; fusion and high power microwave generation from intense electron beams. Website: <http://www.ners.engin.umich.edu>

Michael Atzmon, Professor (734-764-6888) [atzmon@umich.edu] Ph.D., California Institute of Technology, 1985. Thermodynamics and kinetics of materials; amorphous metal alloys; radiation effects in materials. Website: <http://www.ners.engin.umich.edu>

Alex F. Bielajew, Professor (734-764-6364) [bielajew@umich.edu] Ph.D., Stanford University, 1982. Theory of electron and photon transport; Monte Carlo theory and development; radiation dosimetry theory; radiotherapy treatment planning algorithms. Website: <http://www.ners.engin.umich.edu>

Thomas Downar, Professor (734-615-9002) [downar@umich.edu] Ph.D., Massachusetts Institute of Technology, 1984. Computational nuclear reactor physics; nuclear reactor dynamics, and the development of coupled neutronics and thermal-hydraulics methods for power reactor safety analysis. Website: <http://www.ners.engin.umich.edu>

Rodney C. Ewing, Professor of Geological Sciences, Materials Science and Engineering, and Professor of Nuclear Engineering and Radiological Sciences (734-763-9295) [rodewing@umich.edu] Ph.D., Stanford University, 1974. Nuclear waste management; radiation effects in complex ceramics and glasses. Website: <http://www.ners.engin.umich.edu>

Ronald F. Fleming, Professor of Nuclear Engineering and Radiological Sciences (734-647-9661) [flemingr@umich.edu] Ph.D., University of Michigan, 1976. Neutron activation analysis; materials analysis using nuclear techniques; radiation measurements. Website: <http://www.ners.engin.umich.edu>

John E. Foster, Associate Professor (734-764-1976) [jefoster@umich.edu] Ph.D., University of Michigan, 1996. Low-temperature plasma science; propulsion, environmental, energy conversion, and processing plasmas; space and atmospheric plasma phenomena. Website: <http://www.ners.engin.umich.edu>

Michael Hartman, Assistant Professor (734-615-5978) [mikehart@umich.edu] Ph.D., University of Michigan, 2005. Application of neutron scattering techniques to study the underlying physical properties of matter; development of high-capacity, reversible, hydrogen storage materials compatible with vehicular fuel cell applications. Website: <http://www.ners.engin.umich.edu>

Zhong He, Professor (734-764-7130) [hezhong@umich.edu] Ph.D., Southampton University, U.K., 1993. Room-temperature semiconductor gamma-ray detectors and gamma-ray imaging devices. Website: <http://www.ners.engin.umich.edu>

James P. Holloway, Professor and Associate Dean for Undergraduate Education; Arthur F. Thurnau Professor (734-936-3126) [hagar@umich.edu] Ph.D., University of Virginia, 1989. Radiation transport, reactor physics, plasma kinetic theory, computational physics, nonlinear dynamics Website: <http://www.ners.engin.umich.edu>

Kimberlee J. Kearfott, Professor of Nuclear Engineering and Radiological Sciences and Biomedical Engineering (734-763-9117) [kearfott@umich.edu] Sc.D. and C.H.P., Massachusetts Institute of Technology, 1980. Radiation safety, medical physics; radiation detection and dosimetry; environmental radioactivity; explosives detection; homeland security. Website: <http://www.ners.engin.umich.edu>

Karl M. Krushelnick, Professor (734-763-4877) [kmkr@umich.edu] Ph.D., Princeton University, 1994. Plasma physics; nuclear fusion; high power lasers. Website: <http://www.ners.engin.umich.edu>

Mark Kushner, Professor (734-647-8148) [mjkush@umich.edu] Ph.D., California Institute of Technology, 1979. Applied Electromagnetics; MEMS and Microsystems; Optics and Photonics; Quantum Science and Engineering; Integrated Circuit Design and VLSI; Plasma Science and Engineering; Energy and Power. Website: <http://www.ners.engin.umich.edu>

Edward W Larsen, Professor (734-936-0124) [edlarsen@umich.edu] Ph.D., Rensselaer Polytechnic Institute, 1971. Numerical and analytical methods for neutron, electron, photon, and thermal radiation transport. Website: <http://www.ners.engin.umich.edu>

Y.Y. Lau, Professor of Nuclear Engineering and Radiological Sciences and Applied Physics Program (734-764-5122) [yylau@umich.edu] Ph.D., Massachusetts Institute of Technology, 1973. Plasma and beam physics; high power radiation sources; vacuum microelectronics.

Website :<http://www.ners.engin.umich.edu>

John C. Lee, Professor (734-764-9379) [jcl@umich.edu] Ph.D., University of California, Berkeley, 1969. Nuclear reactor physics; reactor safety; power plant simulation and control; fuel cycle analysis. Website: <http://www.ners.engin.umich.edu>

William R. Martin, Professor (734-764-5534) [wrm@umich.edu] Ph.D., University of Michigan, 1976. Computational methods development for the solution of the Boltzmann transport equation including deterministic and Monte Carlo methods. Website: <http://www.ners.engin.umich.edu>

Sara Pozzi, Associate Professor (734-615-4970) [pozzisa@umich.edu] Ph.D., Polytechnic of Milan, Italy, 2001. Development of new methods for nuclear materials identification and characterization for nuclear nonproliferation and homeland security applications. Website: <http://www.ners.engin.umich.edu>

Lumin Wang, Professor (734-647-8530) [lmwang@umich.edu] Ph.D., University of Wisconsin-Madison, 1988. Ion beam modification of materials; transmission electron microscopy; nanocrystalline materials; and nuclear materials. Website: <http://www.ners.engin.umich.edu>

Gary S. Was, Professor of Nuclear Engineering and Radiological Sciences and Materials Science and Engineering; Walter J. Weber, Jr. Professor of Sustainable Energy, Environmental and Earth Systems Engineering (734-763-4675) [gsw@umich.edu] Sc.D. , Massachusetts Institute of Technology, 1980. Radiation materials science; materials degradation and design for advanced reactor systems; materials processing with radiation; ion beam modification and analysis of materials; corrosion, stress corrosion cracking, hydrogen embrittlement, materials degradation modes, nuclear fuels and fuel materials. Website: <http://www.ners.engin.umich.edu>

David K. Wehe, Professor (734-763-1151) [dkw@umich.edu] Ph.D., University of Michigan, 1984. Radiation measurements and applications. Website: <http://www.ners.engin.umich.edu>

Other Faculty

Ziya A. Akcasu, Professor Emeritus of Nuclear Engineering and Radiological Sciences (734-764-5534) [ziya@umich.edu] Ph.D., University of Michigan, 1963. Nonlinear reactor dynamics; Reactor noise analysis; theory and applications of stochastic differential equations; dynamics of dense fluids; calculation of time-correlations and transport coefficients; dynamics of macromolecular solutions and melts. Particle transport in stochastic media (current). Website: <http://www.ners.engin.umich.edu>

Yugo Ashida, Assistant Research Scientist (734-763-3940) [yugo@umich.edu] Ph.D., Tohoku University, 1999. Mechanism of irradiation assisted stress corrosion cracking in neutron-irradiated stainless steels in light water reactor systems. Website: <http://www.ners.engin.umich.edu>

Forrest Brown, Adjunct Professor (505-667-7581) [fbrown@lanl.gov] Ph.D., University of Michigan, 1981. International reputation in Monte Carlo simulation & advanced computing; reactor physics, criticality safety, radiation transport, teraflop & petaflop computers, large-scale engineering computations, parallel/vector computing, distributed computing, computer benchmarking, & computer code development. Website: <http://www.ners.engin.umich.edu>

Frederick W. Buckman, Adjunct Professor (734-764-4260) [fwb@umich.edu] Ph.D., Massachusetts Institute of Technology, 1970. Interests are in the design, development, and operation of nuclear power plants; historical performance of plants, people, and the evolution of our licensing and self-assessment processes. Website: <http://www.ners.engin.umich.edu>

Jeremy Busby, Adjunct Assistant Professor (865-241-4622) [jbusby@umich.edu] Ph.D., University of Michigan, 2000. Irradiation effects in metals for high temperature reactors, fusion reactors, and spacecraft reactors, radiation-effects in refractory metals, identifying the mechanisms of embrittlement for materials under high temperature irradiation, irradiation-assisted stress corrosion cracking, radiation-induced microstructure and microchemistry changes, characterization of radiation-induced changes, deformation mechanics, transmission electron microscopy, scanning electron microscopy. Website: <http://www.ners.engin.umich.edu>

Shaun D. Clarke, Assistant Research Scientist (734-615-7830) [clarkesd@umich.edu] Ph.D., Purdue University, 2007. Simulation techniques for active interrogation systems using high-energy photons. Methods under investigation include photoneutron energy spectra and multiplicity analysis. Website: <http://www.ners.engin.umich.edu>

Jack Davis, Adjunct Professor (202-767-3278) [jack.davis@nrl.navy.mil] Ph.D., Imperial College of Science, London, 1967. Atomic physics, plasma spectroscopy, radiation transport, and non-LTE physics. Website: <http://www.ners.engin.umich.edu>

James J. Duderstadt, President Emeritus, University of Michigan and University Professor of Science and Engineering (734-647-7300) [jjd@umich.edu] Ph.D., California Institute of Technology, 1967. Nuclear reactor theory and design (both fission and fusion); radiation transport theory; kinetic theory and statistical mechanics; interaction of intense laser and particle beams with plasmas; inertial confinement fusion, energy systems analysis; computer simulation and networking; energy policy. Website: <http://www.ners.engin.umich.edu>

Marek Flaska, Assistant Research Scientist (734-764-0150) [mflaska@umich.edu] Ph.D., Technical University (TU) Delft, 2006. Organic and inorganic scintillation detectors; capture-gated detectors; and other detector types for nuclear materials identification for nuclear nonproliferation; nuclear material control and accountability and national security. Website: <http://www.ners.engin.umich.edu>

Michael Flynn, Adjunct Professor (313-874-4483) [mikef@rad.hfh.edu] Ph.D., University of Michigan, 1975. Radiation imaging with emphasis on medical applications; statistical concepts of image formation for radiography; radioisotope imaging, and computed tomography; measurement methods

for image quality assessment; high fidelity image display and human visual perception as pertains to radiological interpretation; active research projects in quantitative lung densitometry, musculo-skeletal tomosynthesis, phase contrast imaging, display calibration, and radiological informatics.

Website: <http://www.ners.engin.umich.edu>

Mitchell Goodsitt, Adjunct Professor of Nuclear Engineering and Radiological Sciences, Professor of Radiological Sciences Department of Radiology (734-936-7474) [goodsitt@umich.edu] Ph.D., University of Wisconsin, 1982. Medical physicist specializing in research in diagnostic x-ray and ultrasound imaging and quality control such as development of a combined 3D X-ray and 3D Ultrasound breast Imaging System; Diagnostic Radiology Quality Assurance Research Projects.

Website: <http://www.ners.engin.umich.edu>

Mark Hammig, Assistant Research Scientist (734-764-5225) [hammig@umich.edu] Ph.D., University of Michigan, 2005. Radiation detector development; stochastic systems research; photonic devices.

Website: <http://www.ners.engin.umich.edu>

Zhijie Jiao, Assistant Research Scientist (734-615-7761) [zjiao@umich.edu] Ph.D., Polytechnic University of New York, 2004. Irradiation-assisted stress corrosion cracking; high temperature corrosion; radiation effects; microstructure evolution under irradiation; transmission electron microscopy; focus ion beam microscopy; atom probe tomography.

Website: <http://www.ners.engin.umich.edu>

Terry Kammash, Stephen S. Attwood Professor of Engineering and Professor Emeritus of Nuclear Engineering and Radiological Sciences (734-764-0205) [tkammash@umich.edu] Ph.D., University of Michigan, 1958. Theoretical and computational investigations of high temperature plasma confinement in magnetic fusion devices, including the study of equilibrium, transport, and stability of plasma in toroidal and open-ended devices; inertial confinement fusion; plasma engineering; power producing fusion reactors; space applications of nuclear energy.

Website: <http://www.ners.engin.umich.edu>

Glenn F. Knoll, Professor Emeritus of Nuclear Engineering and Radiological Sciences (734-936-0121) [gknoll@umich.edu] Ph.D., University of Michigan, 1963. Detection and spectroscopy of ionizing radiation; gamma ray imaging for medical and other applications; three dimensional position sensing in gamma ray spectroscopy, neutron detection and imaging. Website: <http://www.ners.engin.umich.edu>

Imre Pázsit, Adjunct Professor (46-31-772-3081) [imre@nephy.chalmers.se] Ph.D., Roland Eotvos University, Budapest, 1975. Theory of neutron fluctuations in multiplying materials with application to nuclear material detection and identification; stochastic theory of neutron slowing down, energy deposition and light generation in detectors; solving inverse problems in material identification; deterministic and stochastic transport of neutrons and charged particles; dynamics and diagnostics of current and future reactor systems. Website: <http://www.ners.engin.umich.edu>

Volkan Seker, Assistant Research Scientist (734-764-7286) [vseker@umich.edu] Ph.D., Purdue University, 2007. High-temperature gas cooled reactor physics and thermo-fluids; computer code development in nuclear reactor analysis; and parallel and high performance computing. Website: <http://www.ners.engin.umich.edu>

Alexander G.R. Thomas, Assistant Research Scientist (734-763-6008) [agrt@umich.edu] Ph.D., Imperial College, London, UK, 2007. Plasma physics; nuclear fusion; high power lasers. Website: <http://www.ners.engin.umich.edu>

Dieter Vincent, Professor Emeritus of Nuclear Engineering and Radiological Sciences (734-936-1592) [dvincent@umich.edu] Ph.D., Universitaet Goettingen, 1956. Radiation effects in materials, hydrogen (and helium) in metals; ion beam analysis; moessbauer spectroscopy; positron lifetime spectroscopy. Website: <http://www.ners.engin.umich.edu>

Ruth Weiner, Adjunct Assistant Professor (505-284-8406) [rfweine@sandia.gov] Ph.D., Johns Hopkins University, 1962. Radiation risk analysis; radioactive waste management., transportation and storage of radioactive materials. Website: <http://www.ners.engin.umich.edu>

Feng Zhang, Assistant Research Scientist (734-615-6890) [zhangf@umich.edu] Ph.D., University of Michigan, 2004. Radiation measurements and applications. Website: <http://www.ners.engin.umich.edu>

Nuclear Science and Engineering Research Centers

High Temperature Corrosion Laboratory (HTCL) : The High Temperature Corrosion Laboratory (HTCL) provides the capability to conduct corrosion, stress corrosion cracking, and hydrogen embrittlement tests in high temperature aqueous environments and, in particular, simulated light water reactor environments. <http://www-ners.engin.umich.edu/labs/htcl/>

Irradiated Materials Testing Complex (IMTL): The Irradiated Materials Testing Laboratory provides the capability to conduct high temperature corrosion and stress corrosion cracking of neutron irradiated materials and to characterize the fracture surfaces after failure. <http://www-ners.engin.umich.edu/labs/imtl/>

Materials Preparation Laboratory: The Materials Preparation Laboratory provides facilities for the preparation and characterization of materials for materials research studies. The lab houses a grinding and polishing table for metallographic sample preparation, a tube furnace for annealing and heat treating, an electropolishing and etching system, a jet-electropolisher for making TEM disc samples, a slow speed cut-off wheel, a slurry drill, and a microscope and camera for imaging sample surfaces. <http://www.mse.engin.umich.edu/research/facilities/139>

Metastable Materials Laboratory: In the Metastable Materials Laboratory, studies of the kinetics and thermodynamics of nanocrystalline and amorphous materials are conducted. The lab is equipped with facilities for x-ray diffraction, calorimetry, mechanical alloying, and annealing of samples.

Michigan Ion Beam Laboratory (MIBL): The Michigan Ion Beam Laboratory for Surface Modification and Analysis (MIBL) was completed in October of 1986. The laboratory was established for the purpose of advancing our understanding of ion-solid interactions by providing up-to-date equipment with unique and extensive facilities to support research at the cutting edge of science. Researchers from the University of Michigan as well as industry and other universities are encouraged to participate in this effort. <http://www-ners.engin.umich.edu/labs/mibl/>

Neutron Science Laboratory: The Neutron Science Laboratory provides a hands-on neutron measurement experience for students within NERS. The lab is equipped with D-D and a D-T neutron generators with a capability of $\sim 1E06$ and $\sim 1E10$ neutrons/sec, respectively. The neutron generators are also available for researcher in NERS and elsewhere within the University who require a neutron radiation field for the conduct of their research.

Plasma, Pulsed Power and Microwave Lab: The purpose of this lab is to investigate the fundamental physics and technology of interactions between beams of electrons, ions, plasma, microwaves, laser light and radio frequency radiation with plasmas, materials, structures, and biological cells. Numerous state-of-the-art, high-power accelerators, lasers, high power microwave sources, and diagnostic instrumentation are utilized in this research. <http://www-ners.engin.umich.edu/labs/plasma/>

Plasma Science and Technology Laboratory: The Plasma Science and Technology Laboratory's focus is on understanding and applying plasma science to real world problems. The lab has four major thrust areas: plasma space propulsion, plasma processing, environmental mitigation, and energy conversion. Particular attention is paid to those applications that protect the environment and those that improve the quality of life in underdeveloped countries. <http://www-ners.engin.umich.edu/lab/pstlab/>

Position Sensing Semiconductor Radiation Detector Lab: The Position-Sensing Semiconductor Radiation Detector Laboratory is dedicated to the development of room-temperature semiconductor radiation detectors. The focuses of research include the design of advanced semiconductor-based gamma and neutron spectrometers, ultra- low noise Application Specific Integrated Circuitries (ASICs), real- time gamma-ray imaging reconstruction algorithms, and real-time nuclear isotope detection techniques. These instruments are being developed for applications in nuclear non-proliferation, homeland security, astrophysics, planetary sciences, medical imaging, high- energy physics experiments. <http://czt-lab.engin.umich.edu/>

Radiation Detection Laboratory: The Detection for Nuclear Nonproliferation Lab is used to explore novel techniques for radiation detection and characterization for nuclear nonproliferation and homeland security applications. In addition, we study the detailed response of liquid and plastic scintillation detectors in the presence of neutron and gamma-ray sources. The laboratory is equipped with detection systems, electronics, and fast (GHz) digitizers for pulse acquisition. Pulse analysis is performed on several PC's. <http://www-ners.engin.umich.edu/labs/dnng/>

Radiation Effects and Nanomaterials Lab: The Radiation Effects and Nanomaterials Laboratory is for the preparation and analysis of materials for the study of radiation effects and

nanoscience/technology. The laboratory facilities include: a Regarku Miniflex x-ray diffractometer (XRD), a high temperature furnace, a Gatan precision ion polishing (PIPS) workstation, an ultramicrotomy workstation, a carbon coater, and other standard equipment for TEM sample preparation.

Radiation Imaging Laboratory: The Radiation Imaging Laboratory's goal is to develop high- energy gamma ray imaging systems for industrial, space, homeland security, and medical applications. The laboratory explores the fundamental properties of nuclear radiation detectors, develops novel pulse processing electronics, simulates, builds and tests unique radiation measurement systems, and explores new ideas in radiation image formation and reconstruction.

<http://www-ners.engin.umich.edu/labs/radmeas/>

Radiological Health Engineering Laboratory: The Radiological Health Engineering (RHE) Laboratory includes equipment and space for the development and testing of new instruments and systems for application to specific radiological health problems. Work is concentrated on practical systems and radiation measurements methods deployable within the immediate future. Work is conducted in novel detector and dosimeter design, as well as improvements in measurement methods for medical, industrial, laboratory and nuclear power radiation safety applications.

<http://www-ners.engin.umich.edu/rhelab/>

Center for Ultrafast Optical Science (CUOS): The Center for Ultrafast Optical Science (CUOS) is an interdisciplinary research center in the College of Engineering at the University of Michigan in Ann Arbor. CUOS was sponsored as a Science and Technology Center by the National Science Foundation during 1990-2001, and as a College of Engineering Center continues its research in ultrafast optics with funding from a variety of government agencies and industry. Its mission is to perform multidisciplinary research in the basic science and technological applications of ultrashort laser pulses, to educate students from a wide variety of backgrounds in the field, and to spur the development of new technologies. <http://www.eecs.umich.edu/CUOS/>

Electron Microbeam Analysis Laboratory (EMAL): The University of Michigan Electron Microbeam Analysis Laboratory (EMAL) is a university-wide user facility for the microstructural and microchemical characterization of materials. Being a user facility, EMAL is open to anyone in the University research community. The laboratory is also open to users from other universities and to users from local industry. <http://www.emal.engin.umich.edu/>

UNIVERSITY OF MISSOURI, COLUMBIA

Nuclear Science and Engineering Institute

E2433 Lafferre Hall

Columbia, Missouri 65211

(573) 882-8201

FAX: (573) 884-4801

Administrative Contact: Mark Prelas

(573) 882-9691

prelasm@missouri.edu

Website: <http://nsei.missouri.edu/>

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	n/a	n/a	n/a	n/a
Masters	3	19	10	11
PhD	5	6	2	5

Graduate Student Enrollment: 23 Masters/36 Ph.D.

Distance Education Program

Offers Nuclear Engineering Courses Online

http://mudirect.missouri.edu/degprog/specialized/_homeland.shtm

Nuclear Science and Engineering Faculty

Mark A. Prelas, Professor & Director of Research (573-882-9691) [prelasm@missouri.edu] Ph.D. University of Illinois Urbana Champaign, 1979. Radiation Damage; Diamond and Related Materials; Direct Energy Conversion; Radiation Detection; Molecular Sensors; Directed Energy; Non Proliferation; Risk Management. Professional Engineer. Website: <http://prelas.nuclear.missouri.edu/>

Tushar Ghosh, Director of Graduate Studies and Professor (573-882-9736); [GhoshT@missouri.edu]; Ph.D. Oklahoma State University 1989; High temperature adsorption of fission products, Diffusion of fission products in graphite—experimental and theoretical investigation, adsorption phenomena in biochemical systems, kinetics and reaction mechanisms of catalytic reactions, nuclear waste treatment.

Sudarshan K. Loyalka, Curators' Professor, Professor, and Director of Particulate Systems Research Center (573-882-8201); [LoyalkaS@missouri.edu] Ph.D., Stanford University, 1967; Kinetic theory of gases, Diffusion of fission products in graphite, neutron transport, mechanics of aerosols, physics and thermal hydraulics of nuclear reactors, reactor safety analysis.

William H. Miller, Professor and Director of Energy Systems and Resources Program (573-882-9692); [MillerW@missouri.edu]; Ph.D. University of Missouri 1976; Detectors and digital instrumentation, radiation-based analytical techniques, proton recoil neutron spectrometers, energy systems, public information.

Robert V. Tompson, Associate Professor (573-882-2881); [TompsonR@missouri.edu]; Ph.D. University of Missouri 1988; Kinetic theory of gases, experimental and theoretical aerosol mechanics, neutron transport theory, nuclear reactor physics and safety, lasers and laser applications, materials.

Nuclear Engineering Research Centers

Particulate Systems Research Center: Aerosol mechanics, dynamics, interactions; Particulate production; nuclear safety, very high temperature reactor fuels.

MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

(Formerly UNIVERSITY OF MISSOURI- ROLLA)

Nuclear Engineering

222 Fulton Hall, 301 W 14th St.

Rolla, MO 65409

573-341-4720

FAX: 573-341-6309

Administrative Contact: Sheila Johnson

573-341-4720

sheiladj@mst.edu

Website: <http://nuclear.mst.edu>

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	23	29	25	20
Masters	2	2	7	3
PhD	0	0	0	1

Graduate Student Enrollment: 20 Masters/7 Ph.D.

ABET Accreditation: BS Nuclear Engineering

Nuclear Science and Engineering Faculty

Arvind S. Kumar, Professor & Program Chair (573-341-4747) [kumar@mst.edu]

Ph.D., University of California-Berkeley, 1977. Nuclear materials, radiation effects, mechanical properties, nuclear plant life extension. Website:

<http://nuclear.mst.edu/faculty/staffandfacilities/usman.html>

Muthanna H. Al-Dahhan, Professor (573-341-7518) [aldahhanm@mst.edu]

Doctoral degree, Washington University in St. Louis, 1993. Advanced process measurement and monitoring techniques; Radiometric techniques and applications of radioisotopes and nuclear technology in industrial process imaging and visualization; 4th generation nuclear energy and related topics; Multiphase reaction engineering, reactors and processes via advanced measurement, modeling and computational techniques; modeling of transport (momentum, mass, heat) – kinetic interactions; energy efficient and environmentally responsible design, scale-up and performance of multiphase reactors and flow systems; sustainable development via advancing the knowledge and investigating various multiphase processes related to sustainable energy and environment, production of clean energy, bio-energy, fuels, chemicals, and petrochemicals, petroleum processes, biomass and coal conversion and their clean utilization, wastes treatment, animal and farm wastes treatment via anaerobic digestion, environmentally responsible and risk free proliferation nuclear energy, etc. Website: www.mst.edu

Carlos H. Castano, Assistant Professor (573-341-6766) [castanoc@mst.edu] Ph.D., Nuclear Engineering, University of Illinois at Urbana Champaign, 2007. Hydrogen in Materials; Materials for Nuclear Engineering; Plasma Material Interactions.

Website: <http://nuclear.mst.edu/facultystaffandfacilities/castano.html>

Hyoung Koo Lee, Assistant Professor (573-341-4585) [leehk@mst.edu] Ph.D., University of California-Berkeley, 1995. Radiation Imaging; Neutron Radiography; Neutron CT; X-ray CT; Non-Destructive Evaluation (NDE) of TRISO Fuel; NDE of Graphite Block; Medical Imaging; Digital Radiography; Digital Mammography; Digital Fluoroscopy; Cone-Beam CT; New X-ray Source; Digital Image Processing

Website: <http://nuclear.mst.edu/facultystaffandfacilities/lee.html>

Gary E. Mueller, Associate Professor (573-341-4348) [gmueller@mst.edu] Ph.D., University of Missouri, Rolla, 1980. Particle Bed Characterization; Radio-Turbulence; Nuclear Power Safety. Professional Engineer. Website: <http://nuclear.mst.edu/faculty/staffandfacilities/mueller.html>

Shoib Usman, Associate Professor (573-341-745) [usmans@mst.edu] Ph.D., University of Cincinnati, 1997. Radiation measurement and effects on materials, detector characterization, spent fuel interrogation and safeguards, natural convection, turbulence and dispersion, micro convection and radiation effects on fluids. Website: <http://nuclear.mst.edu/facultystaffandfacilities/usman.html>

Other Faculty

Mohammed S. Aljohani, Adjunct Professor (9.66569E+11) [mjohani@kau.edu.sa] Ph.D., Georgia Tech, 1996. Nuclear desalination; Thermal and membrane desalination; Renewable energy; Nuclear and non nuclear tomography techniques; Radiation detection and measurement.

Mariesa Crow, F. Finley Distinguished Professor (573-341-6305) [crow@mst.edu] Ph.D., U. Illinois, 1989. Electric power engineering; microgrids. Professional Engineer.

Delbert E. Day, Curators Professor Emeritus (573-341-4354) [day@mst.edu] Ph.D., Pennsylvania State University, 1961. Vitrification of nuclear waste; microspheres for radioembolization of tumors; radiotherapy; glasses for brachytherapy. Professional Engineer.

Tod Moser, Adjunct Professor (573-823-9253) [tmoser@ameren.com] MSNE, University of Missouri – Columbia, 1992. Professional Engineer.

Nuclear Science and Engineering Research Centers

The Nuclear Reactor: A 200 kW pool-type reactor which has been operating since 1961. It has a beam port, a thermal column and pneumatic transfer tubes. The reactor was refueled with low enriched uranium in the summer of 1992. The reactor is used for reactivity experiments, neutron activation analysis, radiation damage studies, neutron radiography, signal analysis, and materials processing. The reactor facility is equipped with state of the art detection instruments and associated electronics for

neutron activation analysis. Recently acquired console equipment has been interfaced with computer data acquisition systems to extend research into artificial intelligence, neural networking, and noise analysis.

The Radiation Measurements Lab: Equipped with modern radiation detection and analysis equipment. The students learn to measure and analyze various forms of radiation sources.

Graduate Center for Materials Research: The facilities of the Graduate Center for Materials Research, and metallurgical engineering and nuclear engineering departments are available for nuclear materials-related research. The Nuclear Materials Lab allows for use of instruments such as a scanning electron microscope, a 300 keV EM-430 Phillips transmission electron microscope, an atomic absorption spectrometer, and a quadrupole mass spectrometer.

US NAVAL ACADEMY

Mechanical Engineering
590 Holloway Road
Annapolis, Maryland 21402
410-293-6510
FAX: 410-293-2219
Administrative Contact: Oscar Barton
410-293-6510
obarton@usna.edu

ABET Accreditation: Mechanical Engineering, Naval Architecture, Ocean Engineering, Aerospace Engineering, Systems Engineering, Ocean Engineering

Nuclear Science and Engineering Faculty

Martin E. Nelson, Professor (410 293-6427) [nelson@usna.edu] Ph.D., University of Virginia, 1972. Dosimetry, radiation detection and measurement, radiation effects on microelectronics, radiation transport. Professional Engineer.

Nuclear Science and Engineering Research Centers

Rickover Hall Nuclear Laboratory-subcritical reactor

D-T and D-D MeV neutron generators

Nuclear Workstations

UNIVERSITY OF NEW BRUNSWICK

Mechanical Engineering
15 Dineer Drive
Fredericton, NB E3B 5A3
506-447-3105

FAX: 506 -453-5025

Administrative Contact: Esam Hussein
506-447-3105

hussein@unb.ca

Website: <http://www.unb.ca/fredericton/engineering/depts/mechanical/>

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	4	3	3	4
Masters	2	2	2	2
PhD	0	0	0	0

Graduate Student Enrollment: 2 Masters/1 Ph.D.

ABET Accreditation BScE

Nuclear Science and Engineering Faculty

Esam MA Hussein, Professor & Associate Dean (506-447-3105) [hussein@unb.ca]

PhD, McMaster University, 1983. Nuclear Methods for Nondestructive Testing & Imaging, Inverse Problems and Monte Carlo Methods. Professional Engineer

Website: <http://www.unb.ca/fredericton/engineering/depts/mechanical/people/hussein.html/>

Nuclear Science and Engineering Research Centers

Laboratory for Threat Material Detection

UNIVERSITY OF NEW MEXICO

Chemical & Nuclear Engineering
MSC01 1120, 1 University of New Mexico
Albuquerque, NM 87131-0001
505-277-5431
FAX: 505-277-5433
Administrative Contact: Timothy L Ward
505-277-2067
tlward@unm.edu
Website: www-chne.unm.edu

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	7	12	7	10
Masters	1	7	8	9
PhD	0	3	5	0

Graduate Student Enrollment: 19 Masters/21 Ph.D.

ABET Accreditation: BS in ChE and BS in NE

Distance Education Program

Offers Nuclear Engineering Courses Online

www-chne.unm.edu

Nuclear Science and Engineering Faculty

Anil K. Prinja, Professor and Associate Chair (505-277-4600) [prinja@unm.edu] Ph.D., Queen Mary College, University of London, U.K., 1980. Stochastic theory of neutron populations; theory and modeling of high-energy charged particle transport; stochastic uncertainty quantification techniques for radiation transport. Website: www.chne.unm.edu

Gary W. Cooper, Associate Professor (505-277-2557) [garywc@unm.edu] Ph.D., University of Illinois, 1976. Neutron Diagnostics of Fusion Plasmas. Website: www-chne.unm.edu

Cassiano R. E. de Oliveira, Professor (505-277-5661) [cassiano@unm.edu] Ph.D., University of London, 1987. Computational Nuclear Science; Deterministic and Stochastic Radiation Transport; Reactor Physics Methods; Nuclear Criticality Safety; Radiation Shielding and Dosimetry; High Performance Computing; Advanced Numerical Discretization Methods; Data Assimilation and Optimization Methods. Website: <http://www-chne.unm.edu/faculty/oliveira/oliveira.htm>

Mohamed S. El-Genk Regents' Professor, Chemical, Nuclear and Mechanical Engineering (505-277-5442) [mgenk@unm.edu] Ph.D. Nuclear Reactors neutronics Analysis, Design, Thermal-Hydraulics and Safety; Nuclear Fuel and Fuel Cycle; Energy Conversion; Space Nuclear Power and Propulsion; Radiation Shielding of Space Energetic Particles; Thermal Management and Energy Storage; Heat

Pipes; CFD analysis of Advanced Reactors and Complex Systems; Boiling Heat Transfer and Two-Phase Flow; Advanced Cooling of Electronics; and Fluid Flow and Heat Transfer in micro-systems.

Adam A. Hecht, Assistant Professor (505-277-1654) [hecht@unm.edu] Ph.D., Yale University, 2004. Radiation detection and measurement with work in nuclear nonproliferation, Experimental work in array detection techniques to extract further radioactive source information, Computational work expanding Monte Carlo simulations to fission for use in active interrogation radiation detection, Measurement work on fission output for a range of interrogation beams, Investigating properties of novel materials for radiation detection and spectroscopy. Website: www.unm.edu/~hecht

Other Faculty

Robert D Busch, Lecturer III (505-277-8027) [busch@unm.edu] Ph.D., University of New Mexico, 1976. Nuclear Criticality Safety; Reactor Physics Measurements; Laboratory Educational Techniques. Professional Engineer.

Norman F. Roderick, Professor Emeritus (505-277-2209) [roderick@unm.edu] Ph.D. The University of Michigan, 1971. High energy density physics; fusion; plasma physics.

Nuclear Science and Engineering Research Centers

AGN Reactor, Small sample reactivity measurements and rossi-alpha measurements.

Center for Nuclear Nonproliferation Science and Technology: Interdisciplinary center promoting class and lab coursework and laboratory research.

Nuclear nonproliferation research laboratory: For work on radiation detection materials and techniques, with capabilities in multichannel digital data acquisition, high vacuum and controlled gas environments.

NORTH CAROLINA STATE UNIVERSITY

Department of Nuclear Engineering

2500 Stinson Dr.

Raleigh, NC 27695

919.515.2301

FAX: 919.515.5115

Administrative Contact: Yousry Azmy

919.515.3385

yyazmy@ncsu.edu

Website: <http://www.ne.ncsu.edu/index.html>

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	21	19	20	19
Masters	9	16	10	4
PhD	5	5	1	1

Graduate Student Enrollment: 56 Masters/46 Ph.D.

ABET Accreditation: BS

Distance Education Program

Offers Nuclear Engineering Courses and Degrees Online

http://engineeringonline.ncsu.edu/EOL_DEGREES/MSNE.pdf

Nuclear Science and Engineering Faculty

Yousry Y. Azmy, Professor & Head (919-515-3385) [yyazmy@ncsu.edu] Ph.D., University of Illinois, Urbana-Champaign, 1985. Nuclear computational Science. Computational transport theory. Multiprocessing. Website: <http://www.ne.ncsu.edu/faculty/azmy.html>

Hany S. Abdel-Khalik, Assistant Professor (919-515-4600) [abdelkhalik@ncsu.edu] Ph.D., North Carolina State University, 2004. Verification and Validation of Complex Models; Multi-scale Multi-physics Modeling; Sensitivity Analysis; Uncertainty Quantification; Data Assimilation. Website: <http://www.ne.ncsu.edu/faculty/abdelkhalik/abdelkhalik.html>

Dmitriy Y. Anistratov, Associate Professor (919-513-4353) [anistratov@ncsu.edu] Ph.D., Mathematical and Physical Sciences Institute for Mathematical Modeling, Russian Academy of Sciences, 1993. Computational physics, transport theory, numerical analysis. Website: <http://www.ne.ncsu.edu/faculty/anistratov.html>

Igor A. Bolotnov, Assistant Professor (518-542-8939) [igor_bolotnov@ncsu.edu] Ph.D., Rensselaer Polytechnic Institute, 2008. Turbulence modeling of multiphase flows; direct numerical simulation of bubbly flows; development of closure laws for multiphase CFD codes.

Mohamed A. Bourham, Professor (919-515-7662) [bourham@ncsu.edu] Ph.D., Ain Shams University, Cairo Egypt, 1976. Plasma-matter interaction, plasma diagnostics, plasma-driven Launch Technology, fusion engineering and technology, plasma dynamics, plasma propulsion and space thrusters, industrial and atmospheric plasmas, physics of low temperature and non-ideal plasmas, physics of beams, particle accelerators and electron beam irradiation systems, atmospheric and industrial plasmas, x-ray sources for medical and screening imaging. Website: <http://www.ne.ncsu.edu/faculty/bourham.html>

D. G. Cacuci, Professor (919-515-3929) [dgcacuci@ncsu.edu] Ph.D., Columbia University, 1978. Predictive best-estimate analysis of large-scale physical and engineering systems, large scale scientific computations and nuclear engineering (reactor multi-physics, dynamics, and safety). Editor, *Nuclear Science & Engineering*. Website: <http://www.ne.ncsu.edu/faculty/cacuci.html>

Joseph M. Doster, Professor (919-515-3658) [doster@ncsu.edu] Ph.D., North Carolina State University, 1982. Systems dynamics, systems simulation, Computational methods in two-phase flow, Systems simulation in support of advanced control and diagnostic systems, design and optimization of advanced targetry for the cyclotron production of radiopharmaceuticals. Website: <http://www.ne.ncsu.edu/faculty/doster.html>

Jacob Eapen, Assistant Professor (919-515 5952) [jacob.eapen@ncsu.edu] Sc.D., MIT, 2006. Molecular and Multiscale Simulations, Nuclear Materials, Radiation Interactions with Materials, Computational Material Science, Thermal and Fluid Transport. Website: <http://www.ne.ncsu.edu/faculty/eapen.html>

Robin P. Gardner, Professor of Nuclear & Chemical Engineering and Director of Center for Engineering Applications of Radioisotopes (919-515-3378) [gardner@ncsu.edu] Ph.D., The Pennsylvania State University, 1961. Industrial Radiation and Radioisotope Measurement Applications including: Radioisotope Tracers; Radiation Gauges; Radiation Analyzers; Monte Carlo Simulation of Previous Three; and Radiation Detection. Professional Engineer. Website: <http://www.ne.ncsu.edu/faculty/gardner.html>

John G. Gilligan, Professor and Director of the Nuclear Energy University Programs Integration Office for the US DOE (919-513-7144) [john_gilligan@ncsu.edu] Ph.D., University of Michigan, 1977. High power density plasma modeling and applications; Fission and fusion energy systems; Engineering education programs and methods. Website: <http://www.ne.ncsu.edu/faculty/gilligan.html>

Ayman I. Hawari, Professor of Nuclear Engineering, Director of Nuclear Reactor Program (919-515-4598) [ayman.hawari@ncsu.edu] Ph.D., University of Michigan, 1995. Neutron thermalization; slow neutron scattering models and atomistic simulations; Nondestructive examination with slow neutron and positron beams; Neutron imaging; Radiation measurements; Nuclear materials assay; Research reactors and accelerator-based neutron sources. Website: <http://www.ne.ncsu.edu/faculty/hawari.html>

Korukonda L. Murty, Professor and Director of Graduate Programs (919-515-3657) [murty@ncsu.edu] Ph.D., Cornell University 1970. Nuclear materials, radiation effects, mechanical properties, creep,

fatigue and fracture mechanics, processing and characterization of nanograin structured metals, NDE, NMR. Website: <http://www4.ncsu.edu/~murty>

Steven C. Shannon, Associate Professor (919-515-3292) [scshannon@ncsu.edu] Ph.D., University of Michigan, 1999. Industrial plasma applications; plasma diagnostics; radiation/material interaction; nanofabrication; compact neutron generators for low fluence applications. Website: www4.ncsu.edu/~scshanno

Paul J. Turinsky, Professor (919-515-5098) [turinsky@ncsu.edu] Ph.D., University of Michigan, 1970. Computational reactor physics; nuclear fuel management and mathematical optimization; validation and verification of software; uncertainty quantification; data assimilation and optimum experimental design; adaptive model refinement; multiphysics simulation. Website: <http://www.ne.ncsu.edu/faculty/turinsky.html>

Man-Sung Yim, Associate Professor (919-515-1466) [yim@ncsu.edu] Sc.D., Harvard University, 1994. Nuclear waste management; Nuclear fuel cycle studies; Nuclear nonproliferation; Radiological assessment. Professional Engineer. Website: <http://www.ne.ncsu.edu/faculty/yim.html>

Other Faculty

Donald J. Dudziak, Professor Emeritus (505-667-7983) (505-661-3832) [dudziak@ncsu.edu, dudziak@lanl.gov] Ph.D., Univ. of Pittsburgh, 1963. Photon transport in media, nuclear facility shielding, dose assessment and cost/benefit analysis, radiation dose regulation policy. Professional Engineer.

David N. McNelis, Adjunct Professor (919-966-9923) [mcnelis@unc.edu] Ph.D., UNC at Chapel Hill, 1974. Nuclear Fuel Cycle (transmutation; separation; aqueous and pyroprocessing; non proliferation; integrated waste management; thermal loading of repository)

Raymond L. Murray, Professor Emeritus (919-280-6821) [murray@eos.ncsu.edu] Ph.D., University of Tennessee 1950. Reactor analysis.

Avneet Sood, Adjunct Assistant Professor (505-667-2119) [sooda@lanl.gov] Ph.D., North Carolina State University, 2000. Monte Carlo methods and code development for radiation transport; Application of radiation transport codes to radiation detection problems.

Bernard W. Wehring, Research Professor (retired, University of Texas at Austin) (919 515-4599) [bwwehrin@ncsu.edu] Ph.D., Nuclear Engineering, University of Illinois at Urbana Champaign, 1966. Radiation Science; Neutron and Fission Physics.

Gerald Wicks, Reactor Health Physicist and Lecturer (919-515-4601) [wicks@ncsu.edu] M.S., University of Lowell, 1983.

Nuclear Science and Engineering Research Centers

Nuclear Reactor Program operates the 1MW PULSTAR with the following major experimental facilities: Positron Annihilation Spectroscopy, Ultracold neutron source, neutron diffractometer, neutron imaging

Center for Engineering Applications of Radioisotopes (CEAR)

CASL Modeling & Simulation Hub

Chief Scientist: Paul J. Turinsky

Website: www.casl.gov

OHIO STATE UNIVERSITY

Nuclear Engineering Graduate Program
201 West 19th Avenue
Columbus, OH 43210
614-292-8519
FAX: 614-292-3163
Administrative Contact: Grace Hines
614-292-8519
hines.7@osu.edu
Website: nuclear.osu.edu

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	n/a	n/a	n/a	n/a
Masters	8	14	8	4
PhD	3	0	0	4

Graduate Student Enrollment: 7 Masters/21 Ph.D.
ABET Accreditation: B.Sc. in Engineering with Nuclear Minor

Nuclear Science and Engineering Faculty

Tunc Aldemir, Professor (614-292-4627) [aldemir.1@osu.edu] Ph.D., University of Illinois, 1978. Nuclear reactor safety; probabilistic risk assessment; smart sensors, plant aging, maintenance and on-line monitoring; digital instrumentation and control systems. Website: <http://www.mecheng.osu.edu/people/tunc-aldemir>

Thomas E. Blue, Professor (614-292-0629) [blue.1@osu.edu] Ph.D., University of Michigan, 1978. Space nuclear systems; advanced nuclear reactor instrumentation, including semiconductor sensors, static and dynamic characterization of radiation-induced degradation of semiconductor power devices; radiation hardness testing; fiber-optics; workforce challenges/education for the nuclear industry. Website: <http://www.mecheng.osu.edu/people/thomas-blue>

Lei (Raymond) Cao, Assistant Professor (614-247-8701) [cao.152@osu.edu] Ph.D., The University of Texas at Austin, 2007. Nuclear instrumentation; development of semiconductor neutron sensors; radiation detection; nuclear analytical technologies (PGAA, NDP and neutron radiography); reactor design. Website: <https://www.mecheng.osu.edu/people/raymond-cao>

Carol S. Smidts, Professor (614-292-6727) [smidts.1@osu.edu] Ph.D., Universite Libre de Bruxelles, Belgium, 1991. Reliability Engineering; Probabilistic Risk Assessment; Software Reliability; Software Safety; Dynamic Risk Assessment; Human Reliability; Digital Systems Risk and Reliability. Website: <http://www.mecheng.osu.edu/people/carol-smidts>

Xiaodong Sun, Assistant Professor (614-247-7646) [sun.200@osu.edu] Ph.D., Purdue University, 2001. Thermal hydraulics and reactor safety; two-phase flow experimentation, modeling, and numerical simulation; boiling and condensation; interfacial area transport and bubble dynamics; thermal hydraulics in high-temperature reactors.
Website: <https://www.mecheng.osu.edu/people/xiaodong-sun>

Other Faculty

Richard N. Christensen, Professor Emeritus (614-292-0445); [christensen.3@osu.edu]; Heat transfer, boiling and condensation, nuclear energy, inherently safe reactors and passive safety systems.
Website: www.nuclear.osu.edu

Richard S. Denning, Visiting Professor (614-292-2544) [denning.8@osu.edu] Ph.D., University of Florida, 1967. Dynamic PRA; Severe accident behavior (LWR and SFR); Fire PRA.
Website: www.nuclear.osu.edu

Brian K. Hajek, Instructor and Associate Chair (614-292-5405) [hajek.1@osu.edu] M.Sc., The Ohio State University, 1972. Reactor operations and regulation, licensing and safety; personnel training/workforce development; computerized procedure development and implementation; simulator modeling including Human-Machine Interface (HMI); nuclear fuel cycle. Website: nuclear.osu.edu

Steven J. Maheras, Lecturer (614-486-5350) [Maheras.1@osu.edu] Ph.D., Colorado State University, 1988. Health physics; radioactive waste management; decontamination and decommissioning; transportation risk assessment; radiological and nuclear terrorism; and radiation dose reconstruction.

Don W. Miller, Professor Emeritus (614-292-7979) [miller.68@osu.edu] Ph.D., The Ohio State University, 1971. Reactor instrumentation, reactor dynamics and control; nuclear medical instrumentation; dynamic safety systems; safety critical software; digital x-ray radiography.
Website: nuclear.osu.edu

Nuclear Science and Engineering Research Centers

The Ohio State University Nuclear Reactor Laboratory (OSUNRL)

The OSUNRL is a major asset of the OSU NE Program. The OSUNRL houses the OSURR a 500-kW pool type reactor, a Co-60 high-dose rate irradiation facility, and a sub-critical assembly. Director: Dr. Thomas E. Blue; Associate Director: Andrew Kauffman
Website: <http://reactor.osu.edu/>

The Ohio State University Research Reactor: The Ohio State University Research Reactor (OSURR) is a general-purpose research and testing reactor based on the Materials Testing Reactor (MTR) design.
Website: <http://reactor.osu.edu/>

Laboratories:

Ohio State's Academic Center of Excellence (ACE) in Instrumentation, Control and Safety
Structure: The Center is jointly operated by Ohio State University (OSU) and Idaho National
Laboratories (INL). Its management structure is as follows:

OSU Director: C. Smidts

OSU Co-Director: T. Aldemir

Website: <http://www.nuclear.osu.edu/ace>

OREGON STATE UNIVERSITY

Department of Nuclear Engineering and Radiation Health Physics

116 Radiation Center

Corvallis, OR 97331-5902

(541) 737-2343

FAX: (541) 737-0480

Administrative Contact: Kathryn Higley

(541) 737-2343

kathryn.higley@oregonstate.edu

Website: ne.oregonstate.edu

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	19	13	6	20
Masters	2	5	7	4
PhD	1	2	1	1

Graduate Student Enrollment: 25 Masters/11 Ph.D.

ABET Accreditation: BS Nuclear Engineering; BS Radiation Health Physics

Nuclear Science and Engineering Faculty

Kathryn A. Higley, Department Head and Professor (541-737-0675) [kathryn.higley@oregonstate.edu] Ph.D., Colorado State University, 1994. Health physics; human and ecological risk assessment; environmental pathway analysis; environmental radiation monitoring; radionuclide and hazardous chemical transport; radiochemistry; neutron activation analysis; nuclear emergency response planning; environmental regulations. Website: ne.oregonstate.edu

Abdollah T. Farsoni, Assistant Professor (541-737-9645) [abi.farsoni@oregonstate.edu] Ph.D., Oregon State University, 2006. Application of nuclear techniques in homeland security, development of new radiation detectors, designing advanced digital pulse processors for radiation detection and spectroscopy.

David M. Hamby, Professor, Graduate Program Chair (541-737-8682) [david.hamby@oregonstate.edu] Ph.D., University of North Carolina, 1989. Health physics; beta dosimetry; beta spectroscopy; radiation instrumentation; environmental health physics; environmental transport; fate and transport model analysis; radiation risk; uncertainty analysis. Website: ne.oregonstate.edu

Jack F. Higginbotham, Professor (541-737-9949) [jack.higginbotham@oregonstate.edu] Ph.D., Kansas State University, 1987. Space Reactor Development, Nuclear Spectroscopy, Radiation Dosimetry, Radiation Shielding.

Andrew C. Klein, Professor (541-737-7061) [andrew.klein@oregonstate.edu] Ph.D., University of Wisconsin, Madison, 1983. Nuclear energy policy; space nuclear systems design; transient analysis of

nuclear power systems; radiation shielding; nuclear nonproliferation; safeguards and security; and fusion energy systems design. Professional Engineer. Website: ne.oregonstate.edu

Todd S. Palmer, Professor (541-737-7064) [palmerts@ne.orst.edu] Ph.D., Nuclear Engineering and Scientific Computing, University of Michigan, 1993. Numerical techniques for particle transport and diffusion; computational fluid dynamics; reactor physics; general numerical methods; nuclear criticality safety; Monte Carlo methods; transport in stochastic mixtures. Website: <http://ne.oregonstate.edu/contact/index.html>

Alena Paulenova, Assistant Professor (541-737-7070) [alena.paulenova@oregonstate.edu] Ph.D. Radiochemistry; Chemistry of Fuel Cycle; Advanced Separations Methods for the Used Fuel Reprocessing and Fuel Waste Forms; Behavior of Actinides and Fission Products; Environmental and Biomedical Applications. Website: <http://ne.oregonstate.edu/contact/index.html>

Brian G. Woods, Associate Professor (541-737-6335) [brian.woods@oregonstate.edu] Ph.D., University of Maryland, 2001. Experimental and computational fluid dynamics and heat transfer; nuclear reactor thermal-hydraulics; nuclear reactor safety.

Qiao Wu, Professor (541-737-7066) [qiao.wu@oregonstate.edu] Ph.D., Purdue University, 1995. Nuclear reactor thermal-hydraulics, two-phase flow theory and experiments, multiphase flow instrumentation, nuclear reactor safety, scaling analysis of complex systems, neutron radiography for two-phase flow visualization, nuclear system system design, fuel enrichment, system safety analysis code validation. Website: <http://ne.oregonstate.edu>

Other Faculty

Steven R. Reese, Radiation Center Director (541-737-2341) [steve.reese@oregonstate.edu] Ph.D., Colorado State University, 1997. Regulatory Compliance; Reactor Dosimetry; Neutron Radiography; Neutron Depth Profiling; Prompt Gamma Neutron Activation Analysis. Website: <http://radiationcenter.oregonstate.edu/People/Reese.html>

Jose N. Reyes, Jr. Professor-currently on leave (541-737-2343) [jose.reyes@oregonstate.edu] Ph.D., University of Maryland, 1986. Thermal hydraulics; multi-phase fluid flow; scaling analyses; reactor safety; reactor system design. Professional Engineer.

Nuclear Science and Engineering Research Center

OSU Radiation Center: The department is housed in the **OSU Radiation Center**. Research facilities include a 1.1 MW TRIGA Mark II nuclear reactor; Advanced Thermal-Hydraulic Research Laboratory (ATHRL) which includes Advanced Plant Experiment (APEX) facility and the Multi-Application Light Water Reactor (MASLWR) facility; the Advanced Nuclear Systems Engineering Laboratory (ANSEL) which includes a High Temperature Test Facility (HTTF), a 1/4-scale test model of a modular High Temperature Gas-Cooled Reactor (HTGR), and a Fuel Development Hydro-Mechanical test loop; the Advanced Nuclear Instrumentation Development Laboratory; Radiochemical Analytical Laboratory with

radio-HPLC- and radio-LC-IS-MS/MS systems; Cobalt-60 Gamma Irradiator; Neutron Radiography facilities; Gamma and Alpha Spectrometry facilities; Radiological Instrument Calibration facilities; Liquid Scintillation Counting Systems; Thermoluminescent Dosimetry Systems..

PENNSYLVANIA STATE UNIVERSITY

Mechanical and Nuclear Engineering
138 Reber Building
University Park, PA 16802
814-865-0036
FAX: 814-865-1280
Administrative Contact: Arthur T. Motta
814-865-0036
atm2@psu.edu
Website: www.mne.psu.edu

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	36	45	35	50
Masters	11 MS & 3 MEng	10 MS & 6 MEng	11 MS & 18 MEng	8 MS & 12 MEng
PhD	2	12	4	7

Graduate Student Enrollment: 15 MS & 88 MEng Masters/35 Ph.D.
ABET Accreditation: BS

Distance Education Program

Offers Nuclear Engineering Courses and Degree Online
<http://www.engr.psu.edu/cde/nuce/index.html>

Nuclear Science and Engineering Faculty

Arthur T. Motta, Chair and Professor (814-865-0036) [atm2@psu.edu] Ph.D., University of California-Berkeley, 1988. Irradiation effects in metals and microstructural evolution under irradiation both from an experimental and a theoretical point of view; behavior of materials, especially nuclear fuel cladding, in the nuclear reactor environment including corrosion, hydriding and irradiation effects.

Maria Avramova, Assistant Professor (814-865-0043) [mna109@psu.edu] Ph.D., Pennsylvania State University, 2007. Reactor thermal-hydraulics; core design; transient and safety analysis; multi-physics multi-scale simulations and uncertainty and sensitivity analysis.

Jack S. Brenizer, Jr., J. "Lee" Everett Professor of Mechanical and Nuclear Engineering (814-863-6384) [brenizer@engr.psu.edu] Ph.D., Pennsylvania State University, 1981. Radiation detection, neutron radiography, neutron activation analysis, nuclear materials monitoring devices.

Gary L. Catchen, Professor (814-865-2011) [g9c@psu.edu] Ph.D. Columbia University, 1979. Hyperfine interactions; radiation detection and measurement; radiation dosimetry; developing teaching techniques for nuclear science.

Fan-Bill Cheung, Professor of Mechanical and Nuclear Engineering (814-863-4261) [fxc4@psu.edu] Ph.D., University of Notre Dame, 1974. Solidification and Melting; Turbulent Natural Convection; Two-Phase Flow and Heat Transfer; Nuclear Reactor Thermal Hydraulics and Safety; Thermal Processing of Materials; Thermal Behavior of High-Temperature Ablatives; Dense Spray and Atomization.

Robert M. Edwards, Professor (814-865-0037) [rmenuc@engr.psu.edu] Ph.D., Pennsylvania State University, 1991. Power Plant simulation and control; applications of artificial intelligence and expert systems to power plant operation. Professional Engineer.

Kostadin Ivanov, Distinguished Professor of Nuclear Engineering (814-865-0040) [kni1@psu.edu] Ph.D., Bulgarian Academy of Sciences. Three-dimensional reactor core analysis; computational methods in reactor statics and dynamics; thermal-hydraulic reactor system transient modeling of power plants; coupled 3-D kinetics/thermal-hydraulic simulations and bench marking; core design and management. Professional Engineer.

Igor Jovanovic, Associate Professor (814-867-4329) [ijovanovic@psu.edu] Ph.D., University of California – Berkeley, 2001. Nuclear detection and nonproliferation; inertial confinement fusion; ultrafast and intense laser science and technology; remote sensing.

Seungjin Kim, Assistant Professor of Mechanical and Nuclear Engineering (814-867-1783) [sxx86@psu.edu] Ph.D., Purdue University, 1999. Thermal-hydraulics; Reactor Safety; modeling of two-phase flow and fluid particle interactions; interactions; interfacial area transport modeling; two-phase flow experiment and instrumentation; reactor system analysis code development and Very High Temperature Reactor.

Kenan Unlu, Director of Radiation Science and Engineering Center and Professor (814-865-6351) [kxu2@psu.edu] Ph.D., University of Michigan, 1989. Development and Applications of Nuclear Analytical Techniques; Neutron Depth Profiling; Cold Neutron Prompt Gamma Activation Analysis; Neutron Radiography, Neutron Activation Analysis; Radiation Detection; Radiochemistry; Nuclear Forensic and Nuclear Security Education.

Other Faculty

Brenden Heidrich, Research Associate / Senior Reactor Operator (814-865-6351) [heidrich@psu.edu] M.S. Pennsylvania State University (2003). Reactor physics and experimental design; operational characteristics of research reactors; economics of nuclear electricity generation; safety and reliability of light water reactors. Engineer-in-Training.

Darryl Farber, Assistant Professor of Science, Technology, and Society and Affiliate Assistant Professor of International Affairs. (814-865-3042) [dfarber@engr.psu.edu] Ph.D., The Pennsylvania State University, 1999. Policy and management of nuclear waste; scenario analysis and planning for engineering systems; nuclear ethics.

Barry Scheetz, Professor of Civil and Nuclear Engineering (814-865-3539) [se6@psu.edu] Ph.D., Materials. Radioactive waste disposal, cementitious and ceramic waste forms, x-ray diffraction.

Justin Watson, Research Associate, Applied Research Laboratory The Pennsylvania State University (814-863-6754) [jkw104@psu.edu] Ph.D., Pennsylvania State University, 2010. Computational fluid mechanics; Nuclear reactor safety analysis; core design; System simulation; Advanced numerical methods for multi-physics simulations; Parallel computation for nuclear reactor safety analysis.

Nuclear Science and Engineering Research Centers

Advanced Multi-Phase Flow Laboratory (AMFL): To perform scaled experiments, model two-phase flow phenomena, develop instrumentation, improve the reactor system analysis, and to provide hands-on experience to both graduate and undergraduate students.

Reactor Dynamics and Fuel Management Group: The Reactor Dynamics and Fuel Management Research Group (RDFMG), was established at Penn State University (PSU) in the Spring 2000, to address the current demands for more accurate and efficient reactor analyses, which directly relate to safety and economic performance of current and next generations nuclear systems. The research performed by RDFMG is in the related areas of reactor physics, nuclear safety and fuel management. The work in each of these areas involves development, coupling, qualification and application of reactor analysis tools and focuses on integration of advanced multidimensional reactor design and safety analysis physics methodologies. Special emphasis is put on development of methods and computer codes for core design and on coupled space-time kinetics/thermal-hydraulic system modeling. Director: Dr. Kostadin Ivanov, Distinguished Professor of Nuclear Engineering,

Radiation Science and Engineering Center: The Radiation Science and Engineering Center (RSEC) is a unit under the College of Engineering and the Vice President for Research at Penn State. The RSEC is affiliated with the Department of Mechanical and Nuclear Engineering. The RSEC facilities include the Penn State Breazeale Reactor (PSBR), gamma irradiation facilities (In-pool Irradiator, Dry Irradiator, and Hot Cells), and various radiation detection and measurement laboratories. The PSBR is a 1 MW, TRIGA with moveable core in a large pool and with pulsing capabilities.

UNIVERSITY OF PITTSBURGH

Department of Mechanical Engineering and Materials Science

3700 O'Hara Street

Pittsburgh, PA 15261

412-624-9784

412-624-4846

Administrative Contact: John Metzger

412-624 5430

jdm75@pitt.edu

Website:<http://www.engr.pitt.edu/mechanical/index.html>

ABET Accreditation: Mechanical Engineering, Materials Science and Engineering

Distance Education Program

Offers Nuclear Engineering Courses Online

<http://www.engr.pitt.edu/mechanical/graduate/nuclear-certificate.html>

Nuclear Science and Engineering Faculty

John D. Metzger, Director of Nuclear Engineering, Research Associate Professor(412-624-5430) [jdm75@pitt.edu] Ph.D., University of New Mexico, 1989. Thermal systems; fluid flow; space nuclear power and propulsion systems; nuclear materials. Professional Engineer.

Minking Chyu, Leighton Orr Chair Professor and Chairman of Mechanical Engineering and Materials Science (412-624-9783) [mkchyu@pitt.edu] Ph.D., University of Minnesota, 1986. Heat and mass transfer; turbomachinery.

Daniel Cole, Assistant Professor (412-624-3069) [dgcole@pitt.edu] Ph.D. , Virginia Polytechnic Institute and State University, 1998. Dynamic systems; measurement and control. Professional Engineer.

Mark Kimber, Assistant Professor (412-624-8111) [mlk53@pitt.edu] Ph.D., Purdue University, 2008. Thermal Hydraulics; Electronics Cooling.

Jung-Kun Lee, Assistant Professor (412-648-3395) [jul37@pitt.edu] Ph.D., Seoul National University, 2000. Nanotechnology; radiation effects on Material Properties; Ion-beam Synthesis of functional materials. Website: http://www.engr.pitt.edu/mems/people/facstaff/lee_jungkun.html

Jorg Wiezorek, Associate Professor (412-624-5430) [wieszorek@pitt.edu] Ph.D., University of Cambridge, Cambridge, UK, 1994. Materials Science & Engineering; Physical Metallurgy & Metal Physics; Phase Transformations; Micro-Characterization & Analysis by Diffraction and Spectroscopy; Transmission Electron Microscopy; Scanning Electron Microscopy; Mechanical Behavior; Microstructure Engineering.

Other Faculty

David Aumiller, Adjunct Associate Professor (724-516-9437) [dla12@pitt.edu] Ph.D., The Pennsylvania State University, 1996. Two-phase flow and heat transfer; best-estimate plus uncertainty methods development; reactor safety code development.

Ken Balkey, Adjunct Lecturer (412-374-4633) [balkeykr@westinghouse.com] M.S., University of Pittsburgh, 1980. Nuclear codes and standards; risk assessment; mechanical component integrity; nuclear reactor pressure vessel integrity; piping design-by-analysis.

John Bartocci, Adjunct Lecturer (412-624-5430) [jtb51@pitt.edu] B.S., Massachusetts Institute of Technology. SRO Certified Instructor.

Bruce Berquist, Adjunct Associate Professor (412-476-6053) [berqb@comcast.net] Ph.D., University of Pittsburgh, 1979. Nuclear materials development.

Michael Burke, Adjunct Professor (412-256-1788) [Burkema@Westinghouse.com] Ph.D., University of Sheffield, UK, 1981. Performance of Materials for Nuclear plants particularly aging materials degradation.

Lawrence Corr, Adjunct Assistant Professor (412-624-5430) [lrcorr@pitt.edu] Ph.D.

Gary Elder, Faculty Lecturer (412-856-5967) [eldergg@westinghouse.com] Ph.D., University of Pittsburgh, 1982. Operating nuclear plants.

Vinny Esposito, Adjunct Professor (724-327-9593) [esposivj@westinghouse.com] D.Sc., University of Virginia, 1968. Nuclear core Thermal Hydraulics; Safety Analysis; Fuel Design; Numerical Analysis.

Larry Foulke, Adjunct Professor (412-653-0978) [lrf4@pitt.edu] Ph.D., Massachusetts Institute of Technology, 1967. Nuclear core and plant dynamics; public policy; space-time kinetics; space nuclear power. Professional Engineer.

Daniel Gill, Adjunct Lecturer (412-476-7714) [dfg3@pitt.edu] Ph.D., The Pennsylvania State University, 2009. Numerical particle transport theory; computational physics; numerical analysis.

David Griesheimer, Adjunct Assistant Professor (412-624-5430) [dpg20@pitt.edu] Ph.D., University of Michigan, 2004. Computational methods of radiation transport; Monte Carlo methods; multiphysics methods for reactor analysis; high performance and parallel computing.

David Haser, Faculty Lecturer (412-367-9177) [haserd@firstenergy.com] MBA, Youngstown State University, 2005. SRO License; Safety Culture; Plant Operation Improvements; Nuclear Plant Operations and Safety. Professional Engineer.

David Helling, Faculty Lecturer (724-722-5301) [davidh179@gmail.com] B.S., Miami University, 1969. SRO License; Nuclear Power Plant safety and operations; Nuclear Power Plant instrumentation and control; Curriculum integration and online learning.

Melissa Hunter, Adjunct Assistant Professor (412-624-5430) [mah180@pitt.edu] Ph.D.

Andrea Maioli, Guest Lecturer (412-374-3572) [maiolia@westinghouse.com] Ph.D., Politecnico di Milano, 2007. Probabilistic Risk Assessment and Risk-informed Application for Nuclear power plants.

Donald Scheef, Faculty Lecturer (724-722-5318) [scheefdm@westinghouse.com] M.S., Purdue University, 1972.

Richard Siergiej, Adjunct Associate Professor (412-476-7587) [rrs27@pitt.edu] Ph.D., Lehigh University, 1992. Advanced instrumentation and control; wireless data transmission; solid-state physics; radiation effects on semiconductor devices.

PURDUE UNIVERSITY

School of Nuclear Engineering
400 Central Drive

West Lafayette, IN 47907

765-494-5739

FAX: 765-494-9570

Administrative Contact: Ahmed Hassanein

765-494-5742

hassanein@purdue.edu

Website: www.ecn.purdue.edu

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	38	31	27	35
Masters	12	8	11	6
PhD	7	3	6	5

Graduate Student Enrollment: 19 Masters/30 Ph.D.

ABET Accreditation: B.S. (N.E.)

Nuclear Science and Engineering Faculty

Ahmed Hassanein, Paul L. Wattelet Professor and Head of Nuclear Engineering (765-494-5742)

[hassanein@purdue.edu] Ph.D., University of Wisconsin, Madison, 1982.

Website: <https://engineering.purdue.edu/NE>

Jean Paul Allain, Assistant Professor (765-496-9718) [allain@purdue.edu] Ph.D., University of Illinois

Urbana-Champaign, 2001. Website: <https://engineering.purdue.edu>

Chan Choi, Professor (765-494-6789) [choi@purdue.edu] Ph.D., Southern Illinois University, 1973.

Website: <https://engineering.purdue.edu/NE>

Audeen Fentiman, Associate Dean of Graduate Education and Interdisciplinary Programs and Professor

(765-494-1870) [fentiman@purdue.edu] Ph.D., The Ohio State University, 1982.

Website: <https://engineering.purdue.edu/NE>

Takashi Hibiki, Professor (765-496-9033) [hibiki@purdue.edu] Ph.D, Osaka University, 1990.

Website: <https://engineering.purdue.edu/NE>

Mamoru Ishii, Walter H. Zinn Distinguished Professor (765-494-4587) [ishii@purdue.edu], Ph.D.,

Georgia Institute of Technology, 1971. Website: <https://engineering.purdue.edu/NE>

Martin Lopez-De-Bertodano, Associate Professor (765-494-9169) [bertodan@purdue.edu] Ph.D.,

Rensselaer Polytechnic Institute, 1992. Website: <https://engineering.purdue.edu/NE>

Shripad T Revankar, Professor (765-496-1782) [shripad@purdue.edu] Ph.D., Karnatak University, 1983. Two-Phase Flow and Heat Transfer; Reactor Safety and Thermal Hydraulics; Next Generation Reactors; High Conductivity Nuclear Fuel; Multiphase Flow in Packed Beds (Trickle Bed Reactors); Multiphase Instrumentation Development; Fuel Cell -Design and Simulation; Regenerative Fuel Cell; Distributed Energy Generation; Hydrogen Generation -High Temperature Thermochemical Reactions; Hydrogen Storage. Website: <http://cobweb.ecn.purdue.edu/~shripad/>

Rusi Taleyarkhan, Professor of Nuclear Engineering (765-494-0198) [rusi@purdue.edu] Ph.D.(1982); M.B.A(1980), Rensselaer Polytechnic Institute. Nuclear power engineering, safety, thermal-hydraulics; homeland security; combating nuclear terrorism via novel sensor development; Nano-to-macro scale applications of nuclear technology; acoustic inertial confinement fusion; radiation-matter interactions coupled with thermal hydraulics; metastable fluid technologies for nanoscale energetic burst generation; advanced nuclear particle detection technologies based on metastable fluid states; novel explosives and propellant systems for less-than-lethal and barrier penetration devices. Website: <https://engineering.purdue.edu/NE>

Lefteri Tsoukalas, Professor (765-496-9696) [tsoukala@purdue.edu] Ph.D., University of Illinois, 1989. Website: <https://engineering.purdue.edu>

Other Faculty

Jeffrey Brooks, Research Professor (765-496-3630) [brooksjn@purdue.edu] Ph.D., New York University, 1972. Plasma/surface interaction research -modeling, code development and validation, lab experimental studies, analysis of present fusion experiments, design of Plasma Facing Components in ITER and future fusion reactors. High/power surface interaction-modeling, analysis of issues for semiconductor, defense, high-energy physics, industrial applications. Integrated, peta-scale, multi-disciplinary computer simulation for fusion, biology, and other application. Website: <https://engineering.purdue.edu/NE>

Sivanandan Harilal, Research Assistant Professor (765-496-2233) [hari@purdue.edu] Ph.D., Cochin University of Science & Technology, India, 1998. Website: <https://engineering.purdue.edu/NE>

Gennady Miloshevsky, Research Assistant Professor (765-494-8618) [gennady@purdue.edu] Ph. D., Academic Scientific Complex "A.V. Luikov Heat and Mass Transfer Institute" of the National Academy of Sciences of Belarus, 1998. Atomic and plasma physics; Interaction of radiation with matter; Space radiation transfer; Nuclear physics; Computational physics; Computational fluid dynamics; Multiphase flows; Medical radiation physics; Ion and water permeation in proteins; Gating of protein channels and transporters; Protein aggregation in lipid bilayer. Website: <https://engineering.purdue.edu/NE>

Valeryi Sizyuk, Research Assistant Professor (765-494-4217) [vsizyuk@purdue.edu] Ph.D., Belarus State University, Minsk Belarus, 1997. Reactor Fusion; Plasma. Prof. V. Sizyuk has extensive background in computational physics, plasma physics and hydrodynamics, computing technologies and their application in high volume manufacture. Website: <https://engineering.purdue.edu/NE>

RENSELAER POLYTECHNIC INSTITUTE

Mechanical, Aerospace, and Nuclear Engineering

110 8th Street

Troy, New York 12180-3590

518-276-6351

FAX: 518-276-6025

Administrative Contact: Marie Dieffenbach

518-276-2255

dieffm@rpi.edu

Website: <http://mane.rpi.edu/>

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	46	49	30	16
Masters	1	2	3	0
PhD	2	0	0	1

Graduate Student Enrollment: 5 Masters/23 Ph.D.

ABET Accreditation: Mechanical Engineering(BS); Aeronautical Engineering(BS);
Nuclear Engineering(BS)

Nuclear Science and Engineering Faculty

Yaron Danon, Professor (518-276-4008) [danony@rpi.edu] Ph.D., Rensselaer Polytechnic Institute, 1993. Accelerator technology and radiation applications; Nuclear data and instrumentation.
Website: <http://www.rpi.edu/~danony>

Wei Ji, Assistant Professor (518-276-6602) [jiw2@rpi.edu] Ph.D., University of Michigan, 2007. Monte Carlo modeling; Development in radiation transport; Computational methodology; Nuclear reactor core analysis; Simulation in stochastic media.

Jie Lian, Assistant Professor (518-276-6081) [lianj@rpi.edu] Ph.D., University of Michigan, 2003. Nano-scale characterization and nanofabrication; Ion beam techniques; Advanced nuclear materials; Radiation effects

Li (Emily) Liu, Assistant Professor (518-276-8592) [liue@rpi.edu] Ph.D., Massachusetts Institute of Technology, 2005. Radiation damage; Structure and dynamics of nano-materials and macro-molecules; Dynamics of water; Neutron scattering. Website: <http://www.rpi.edu/~liue/>

Bimal K Malaviya, Professor; Curriculum Coordinator (518-276-8578) [malavb@rpi.edu] Ph.D., Harvard University, 1964. Radioactive waste management; fission and fusion reactor physics and technology; biomedical applications; human factor engineering.

Michael Z. Podowski, Professor; Director of Center for Multiphase Research (518-276-4000) [podowm@rpi.edu] Ph.D., Warsaw University of Technology, 1972. Reactor dynamics and safety; Applied mathematics; System stability; Two-phase flow and heat transfer. Website: <http://www.rpi.edu/~podowm>

Timothy Wei, Professor and Department Head (518-276-6351) [weit@rpi.edu] Ph.D., University of Michigan, 1986. Biological flows; Fluid-structure interactions; Turbulence.

George Xu, Professor; Nuclear Engineering Program Coordinator (518-276-4014) [xug2@rpi.edu] Ph.D., Texas A&M University, 1994. Radiation protection dosimetry; Biomedical applications of radiation for cancer imaging and treatment; Radiation protection, radiotherapy and diagnostic imaging; advanced human models for Monte Carlo simulations of ionizing radiation. Website: <http://www.rpi.edu/~xug2>

Other Faculty

Robert C. Block, Professor Emeritus (518-276-6404) [blockr@rpi.edu] Ph.D., Duke University, 1956. Nuclear structure and data; Accelerator technology; Neutron reactions; Industrial applications of radiation; Radiation effects in microelectronics; Nondestructive testing.

Peter F. Caracappa, Clinical Assistant Professor, Radiation Safety Officer (518-276-2212) [caracp3@rpi.edu] Ph.D., Rensselaer Polytechnic Institute, 2006. Nuclear Engineering Education. Website: <http://www.rpi.edu/~caracp3>

Donald A. Drew, Chair, Mathematical Sciences; Eliza Ricketts Foundation Professorship of Mathematics; Professor of Mechanical, Aerospace, and Nuclear Engineering (518-276-6903) [drewd@rpi.edu], Ph.D., Rensselaer Polytechnic Institute, 1970. Multiphase flows.

Mark J. Embrechts, Associate Professor (518-276-4009) [embrem@rpi.edu] Ph.D., Virginia Polytechnic Institute, 1981. Application of neural networks and fuzzy logic for manufacturing and process control; image recognition and classification with the aid of neural networks; neural networks, fractals, chaos, and wavelets for time-series analysis; data mining and computational intelligence.

Thomas C. Haley, Clinical Associate Professor; Director of Student Services (518-276-2255) [haley2@rpi.edu] Ph.D., Rensselaer Polytechnic Institute, 2000. Teaching award-winning blended/hybrid university courses.

Richard T Lahey, Jr., Professor Emeritus (518-276-6351) [lahey@rpi.edu] Ph.D., Stanford University, 1971. Multiphase flow and boiling heat transfer; Nuclear reactor thermal-hydraulics and safety analysis; Sonofusion technology.

Don Steiner, Professor Emeritus (518-276-4016) [profsteiner@nycap.rr.com] Ph.D., Massachusetts Institute of Technology, 1967. Fusion systems analysis; plasma engineering; blanket design and overall fusion reactor design.

Timothy H Trumbull, Adjunct Assistant Professor; Director of Reactor Critical Facility (518-276-6351) [trumbt2@rpi.edu] Ph.D., Rensselaer Polytechnic Institute, 2004. Nuclear engineering education; critical facility operations and experimentation.

Wei Zhou, Clinical Associate Professor (518-276-6988) [zhouw3@rpi.edu] Ph.D., University of California at Berkeley, 1992. Nuclear waste management.

Nuclear Science and Engineering Research Centers

The **Gaertner LINAC Laboratory** has been engaged in active research continuously for over 45 years, and is centered around a multi-million dollar, high power, >60 MeV, L-band traveling wave, electron linear accelerator. Current areas of research at the LINAC include thermal reactor physics, photoneutron reactions, neutron cross sections, radiation effects in electronics, and production of medical isotopes.

The **Walthusen Critical Reactor Facility** is a low watt, fully functioning reactor for operational training and core physics studies and is available for student use in conjunction with modern nuclear radiation detection and characterization systems.

The **Center for Multiphase Research (CMR)** brings together faculty from the Schools of Engineering and Science. There are opportunities for both graduate and undergraduate students to participate in research at the CMR. Current areas of research include: Designing and performing two-phase flow experiments, including fundamentals of two-phase flow physics and system-type experiments. Examples include: two-phase flow turbulence, interfacial forces, bubble size distribution, phase separation, boiling heat, pressure drop in two-phase channels and loops, phase distribution in various channel geometries, gas distribution and heat transfer from ablating surfaces exposed to spreading liquid flows, multi-channel effects, flooding, two-phase flow transients and oscillations. Development of physically-based constitutive models of two-phase flow, and of component models of two-phase flow systems. Examples: mechanistic models of interfacial forces, a mechanistic model of void distribution in subcooled boiling, a widely used model of wall heat flux partitioning in subcooled boiling, a mechanistic model of critical heat flux (CHF). Application of Computational Multiphase Fluid Dynamics (CMFD) and other computational methods to simulate two-phase flow systems, including steady-state operation, transients/instabilities and 3-dimensional effects. Development of graphical tools, such as graphical user interface (GUI) for computer simulations.

The **Multiscale Science & Engineering Center (MSEC)** was established in October 2006 to create a collaborative environment of faculty to develop and transition Multiscale technologies to industry and government. Rensselaer is among the first universities to recognize that a systematic multiscale theory combined with intensive technology transfer effort would propel the Institute's initiatives in numerous fields. One MSEC project is the VIP-Man Virtual Patient, with which researchers study multiscale human computing applications on radiation modeling in geometry modeling, radiation transport, treatment optimization, and X-ray CT imaging.

UNIVERSITY OF SOUTH CAROLINA

Mechanical Engineering, Nuclear Engineering Program

300 Main Street

Columbia, SC 29208

803-777-4185

803-777-0106

Administrative Contact: Travis Knight

803-777-1465

twknight@sc.edu

Website: <http://www.me.sc.edu/nuclear/index.html>

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	0	0	0	0
Masters	6	3	6	10
PhD	0	1	0	0

Graduate Student Enrollment: 52 Masters/13 Ph.D.

Distance Education Program

Offers Nuclear Engineering Courses and Degrees Online

<http://www.me.sc.edu/apogee/>

Nuclear Science and Engineering Faculty

Travis W. Knight, Assistant Professor and Director (803-777-1465) [twknight@sc.edu]

Ph.D., University of Florida, 2000. Advanced nuclear fuels and materials; nuclear safeguards; nuclear fuel cycle analysis; alternative uses of nuclear power including hydrogen; safety analysis; space nuclear power and propulsion. Website: <http://www.me.sc.edu/nuclear/faculty/knight/index.html>

Abdel-Moez E. Bayoumi, Professor & Director (803-777-1845) [bayoumi@cec.sc.edu]

Ph.D., NCSU. Predictive Maintenance; Condition-Based Maintenance (CBM); Design, Manufacturing; Health Monitoring System. Professional Engineer. Website: <http://biomed.engr.sc.edu/bayoumi/>

Fanglin (Frank) Chen, Assistant Professor (803-777-4875) [chenfa@cec.sc.edu] Ph.D., Georgia Institute of Technology, 2001. Ceramic materials; Dense membrane for hydrogen separation; Metal hydride for hydrogen storage; Tritium separation Website: <http://www.me.sc.edu/fs/chen.html>

Djamel Kaoumi, Assistant Professor (803-777-0926) [kaoumi@cec.sc.edu] Ph.D., Penn State, 2007.

Nuclear Materials, Structural materials, cladding, Radiation effects, in-situ TEM, Materials Characterization, SEM, XRD, ion irradiation, Mechanical testing.

Jamil Khan, Professor and Chair (803-777-1578) [khan@cec.sc.edu] Ph.D., Clemson, 1988. Heat transfer; fluid dynamics. Website: <http://www.me.sc.edu/fs/khan.html>

Jeffrey H. Morehouse, Associate Professor (803-777-3017) [more@cec.sc.edu] Ph.D., Auburn University, 1976. Renewable Energy. Professional Engineer.

Other Faculty

Luther L Hamm, Adjunct Professor (803-725-2520) [luther.hamm@srnl.gov] Ph.D., USC, 1982. Subsurface contaminant transport within the environment.

Valmore (Val) J. Loisel, Adjunct Professor (803-736-5588) [loiselle@cec.sc.edu] MSME w/ Minor NE, RPI, 1973. Retired.

Elwyn Roberts, Visiting Professor (803-777-2252) [robertse@cec.sc.edu] Ph.D., University of Sheffield, 1960. Materials performance in nuclear reactors; product design; manufacturing and concurrent engineering. Website: <http://www.me.sc.edu/fs/roberts.html>

William A Summers, Adjunct Professor, USC; Manager, Nuclear Energy Programs, Savannah River National Laboratory (803-725-7766) [william.summers@srnl.doe.gov] Ph.D., University of Pittsburgh 1985. Nuclear energy systems; advanced reactors; nuclear hydrogen production.

Nuclear Science and Engineering Research Centers

USC Nuclear Materials Laboratory: The USC Nuclear Materials Laboratory is equipped and licensed for working with uranium and thorium based fuels as well as non-radioactive materials routinely studied including high temperature alloys and ODS steels. The key facilities of this laboratory include high temperature furnaces for processing and testing of high temperature ceramics and metals, high vacuum systems, inert atmosphere glovebox, radiological hood, a customized fluidized-bed chemical vapor deposition coater for studies of coated particle fuels, a very high-temperature mechanical testing machine including a creep/tensile test stand, TEM sample holder for in-situ straining experiments, differential scanning calorimeter, thermogravimetric analyzer and equipment for characterization such as density, particle size, surface area, and porosity measurement and a full suite of metallographic sample preparation (grinder/polisher, electropolisher).

Thermal Hydraulics Laboratory: Thermal hydraulic test loops and laboratories are dedicated to studies of enhanced heat transfer, fluid flow, pressure drop and other phenomena associated with nuclear fuel rods and assemblies.

High Performance Computing: High performance computing facilities are used to analyze and model nuclear reactors, advanced fuel cycles, and advanced nuclear fuels and materials. Modeling and simulation codes and tools are employed for neutronic, thermal hydraulic, computational fluid dynamics (CFD), thermochemical, safety and risk, shielding, and finite element analyses. Sample code packages include MCNP5, SCALE6.0, ERANOS2.1, FACT-SAGE6.1, ABAQUS, Comsol Multiphysics, etc.

SOUTH CAROLINA STATE UNIVERSITY

Civil & Mechanical Engineering Technology and Nuclear Engineering
300 College Street; NE
Orangeburg, South Carolina 29117
803-516-4923
FAX: 803-516-4526
Administrative Contact: Kenneth Lewis
803-536-7132
klewis31@scsu.edu

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	2	1	2	5

ABET Accreditation: Nuclear Engineering

Nuclear Science and Engineering Faculty

Kenneth D Lewis, Dean and Professor (803-536-7132) [klewis31@scsu.edu] Ph.D., University of Illinois at Urbana-Champaign, 1982. Alternative Energy studies; Radiation Protection. Professional Engineer.

Musa B Danjaji, Associate Professor (803-516-4591) [mbdanjaji@scsu.edu] Ph.D., University of Illinois at Urbana-Champaign, 1993. Radiation effects in materials; Radiation Protection; Nuclear Batteries; Research in alternative energy (Biodiesel, Hydrogen Production; Solar; Wind Turbine; Hydrogen Storage; Fuel Cells)

Kenneth C Okafor, Associate Professor (803-516-4758) [kokafor@scsu.edu] Ph.D., The Ohio State University, 1988. Alternative Energy Studies.

Other Faculty

Kara N. Beharry, Instructor (803-516-4923) [kbeharry@scsu.edu] M.S., University of Florida – Gainesville, 2009. Radiation Protection.

UNIVERSITY OF TENNESSEE, KNOXVILLE

Nuclear Engineering
315 Pasqua Engineering Building
Knoxville, TN 37996-2300
865-974-2525
FAX: 865-974-0668
Administrative Contact: H.L. Dodds
865-974-2525
utne@utk.edu
Website: <http://www.engr.utk.edu/nuclear/>

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	26	28	36	36
Masters	8	13	16	14
PhD	1	2	3	5

Graduate Student Enrollment: 48 Masters/30 Ph.D.
ABET Accreditation: B.S. (N.E.)

Distance Education Program

Offers Nuclear Engineering Courses and Degree Online
<http://anywhere.tennessee.edu/>

Nuclear Science and Engineering Faculty

H. L. Dodds, IBM Professor & Department Head (865-974-2525) [utne@utk.edu] Ph.D., UT. Research interests: reactor core analysis, transient modeling and simulation, reactor safety analysis, advanced reactors, nuclear criticality safety, energy policy. Professional Engineer.
Website: <http://web.utk.edu/~hdj/>

Bethany L. Goldblum, Assistant Professor (865-974-5057) [goldblum@utk.edu] Ph.D., University of California. Research Interests: cross section measurements, nuclear forensics, homeland security.

Howard L. Hall, Governor's Chair Professor (865-974-2525) [hhall6@utk.edu] Ph.D., University of California, Berkeley. Research Interests: Nuclear security applications, including proliferation detection, counterproliferation, detection of and response to radiological/nuclear threats, nuclear forensics, radiochemistry, and applications of nuclear-based methods to other security needs (such as explosives detection).
Website: http://hall-research.engr.utk.edu/Welcome_to_Professor_Halls_Research_Group.html

Jason P. Hayward, Assistant Professor (865-974-2536) [jhayward@utk.edu] Ph.D.
Research interests: Radiation detection and measurement, nuclear security and safeguards, nuclear instrumentation, medical and health physics.

Website: <http://www.engr.utk.edu/nuclear/Projects/JPHGrantsContracts-12-09.pdf>

Lawrence H. Heilbronn, Assistant Professor (865-974-2525) [lheilbro@utk.edu] Ph.D., Michigan State. Research interests: high-energy neutron production from heavy-ion interactions.

J. Wesley Hines, Professor (865-974-6561) [jhines2@utk.edu] Ph.D., Ohio State. Research interests: diagnostics and surveillance, artificial intelligence methods, expert systems and neural networks. Website: <http://www.engr.utk.edu/nuclear/Projects/JWH-Grants10-09.pdf>

Haitao Liao, Assistant Professor [hliao4@utk.edu] Ph.D., Rutgers University. Research interests: accelerated life testing, probabilistic risk assessment, condition based maintenance, maintenance planning and scheduling, spare parts logistics.

G. Ivan Maldonado, Associate Professor (865-974-7562) Ph.D., North Carolina State University. Research interests: incore fuel management, fuel cycle analysis, advanced reactors.

Laurence F. Miller, Professor (865-974-5048) [lfmiller@utk.edu] Ph.D., Texas A&M. Research interests: particle and radiation transport, diagnostics and surveillance, waste management, health physics, modeling and simulation, instrumentation and control. Professional Engineer.

Ronald E. Pevey, Associate Professor (865-974-7573) [rpevey@utk.edu] Ph.D., University of Tennessee. Research interests: reactor physics, thermal hydraulics, computer methods development, shielding, nuclear criticality safety. Professional Engineer.

Arthur E Ruggles, Professor (865-974-2525) [aruggles@utk.edu] Ph.D., RPI. Research interests: Reactor thermalhydraulics, liquid metal flow and heat transfer, cavitation and fluid transients, accelerator target design and microchannel flow.

Lawrence W. Townsend, Professor (865-974-7569) [ltownsen@utk.edu] Ph.D., Idaho. Research interests: Radiation physics, transport, shielding and risk assessment; Nuclear and Radiological engineering; Theoretical nuclear physics.

Belle R. Upadhyaya, Professor (865-974-7576) [bupadhya@utk.edu] Ph.D., University of California, San Diego. Research interests: Dynamics, instrumentation and control, monitoring and diagnostics, advanced signal processing, next generation reactors, autonomous control of space reactors, nondestructive examination, reliability and maintainability engineering. Professional Engineer. Website: <http://web.utk.edu/~bru/>

Brian D. Wirth, Governor's Chair Professor (865-974-2552) [bdwirth@utk.edu] Ph.D., University of California. Research Interests: Computational modeling and measurements of radiation effects in materials, molecular dynamics simulation, nano-materials.

Other Faculty

Ray S. Booth , Research Professor (865-974-2525) [rbooth@utk.edu] Ph.D., Florida. Research interests: liquid metal reactors, research reactors, environmental impacts, neutron wave propagation.

Mario Fontana , Research Professor (865-974-2525) [mfontana@utk.edu] Ph.D., Purdue. Research interests: Power reactor safety (including response to potential terrorist attack, and advanced reactor systems. Professional Engineer.

Barry D. Ganapol, Research Professor (865-974-2525) [bganapol@utk.edu] Ph.D., University of California, Berkeley. Research interests: Deterministic and analytical transport theory.

Andrei Gribok , Research Assistant Professor (865-974-2525) [agribok@utk.edu] Ph.D., Moscow Inst of Biological Physics. Research interests: artificial intelligence techniques, surveillance and diagnosis, Inverse and ill-posed problems, Regularization theory.

Martin L. Grossbeck, Research Professor (865-974-2525) [mgrossbe@utk.edu] Ph.D., Illinois. Research interests: radiation effects in materials, burnable absorbers, research reactors, and ultra-high vacuum technology.

Jack Miller, Research Professor (865-974-2525) Ph.D., University of California. Research interests: space radiation protection and radiological engineering.

Hanna Moussa, Research Assistant Professor (865-974-2525) [hmoussa@utk.edu] Ph.D., Tennessee. Research Interests: radiation safety, Monte Carlo simulation of radiation transport.

Fred R. Mynatt, Research Professor (865-974-2525) [fmynatt@utk.edu] Ph.D., Tennessee. Research interests: radiation transport, isotope production and nuclear regulations.

Harry J. Pettengill, Research Professor (301-845-7424) [hjp46@utk.edu] Ph.D., Michigan. Research interests: nuclear regulation, radiation safety, radiation instrumentation and measurement, radiation health studies, radiological terrorism threat assessment and counter-terrorism.

Andrew Stephan, Research Assistant Professor (865-974-2525) Ph.D., Tennessee. Research interests: radiation detection and homeland security.

Timothy Valentine, Research Associate Professor (865-974-2525) [tvalenti@utk.edu] Ph.D., Tennessee. Research interests: nuclear system safety and energy policy.

TEXAS A&M UNIVERSITY

Nuclear Engineering
129 Zachry Engineering Center, 3133 TAMU
College Station, TX 77843-3133
979 845 4161
FAX: 979 845 6443
Administrative Contact: Raymond Juzaitis
979 862 1956
rjuzaitis@tamu.edu
Website: <http://nuclear.tamu.edu>

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	33	29	32	34
Masters	16	25	13	19
PhD	5	10	8	3

Graduate Student Enrollment: 76Masters/35 Ph.D.
ABET Accreditation: Nuclear Engineering, Radiological Health Engineering

Nuclear Science and Engineering Faculty

Raymond J. Juzaitis, Department Head and Director (979-862-1956) [rjuzaitis@tamu.edu] Ph.D., University of Virginia, 1980. Nuclear Security and Nonproliferation.

Marvin L. Adams, Professor; Director INSER (979-845-4198) [mladams@tamu.edu] Ph.D., University of Michigan, 1986. Computational Method Development; Nuclear Power Engineering- Reactor Analysis and Design. Professional Engineer.

Gamal Akabani, Associate Professor (979-458-1699) [akabani@ne.tamu.edu] Ph.D., Texas A&M University, 1990. Health Physics; Radiation Biology; Medical Physics.

Fred R. Best, Associate Professor; Director, NASA Center for Space Power, Texas Engineering Experiment Station (979-845-4108) [fbest@tamu.edu] Ph.D., Massachusetts Institute of Technology, 1980. Nuclear Power Engineering: Space Power; Thermal Hydraulics. Professional Engineer. Website: <http://itp.tamu.edu>

Shannon M. Bragg-Sitton, Assistant Professor (979-862-8446) [sitton@tamu.edu] Ph.D., University of Michigan, 2004. Nuclear Power Engineering: Space Power; Thermal Hydraulics.

William S. Charlton, Associate Professor; Director, Nuclear Security Science and Policy Institute (979-845-7092) [wcharlton@tamu.edu] Ph.D., Texas A&M University, 1999. Nuclear Security and Nonproliferation; Nuclear Power Engineering: Reactor Analysis and Design.

Website: <http://nsspi.tamu.edu>

John Ford, Associate Professor; ABET Coordinator (979-845-6271) [ford@ne.tamu.edu] Ph.D., University of Tennessee at Knoxville, 1992. Health Physics; Radiation Biology; Medical Physics.

Stephen Guetersloh, Assistant Professor (979-862-5198) [guetersloh@tamu.edu] Ph.D., Colorado State University, 2003. Health Physics; Radiation Biology; Medical Physics.

Yassin A. Hassan, Professor and Associate Department Head (979-845-7090) [y-hassan@tamu.edu] Ph.D., University of Illinois, 1979. Nuclear Power Engineering: Thermal Hydraulics. Professional Engineer.

William H. Marlow, Professor; Undergraduate Program Advisor (979-845-2271)[w-marlow@tamu.edu] Ph.D., University of Texas at Austin, 1973. Nuclear Materials and Fuel Cycles.

Sean M. McDevitt, Assistant Professor (979-862-1745) [mcdevitt@ne.tamu.edu] Ph.D., Purdue University, 1992. Nuclear Materials and Fuel Cycles.

Jim E. Morel, Professor; Graduate Academic Advisor; Director – CLASS (979-845-6072) [morel@tamu.edu] Ph.D., University of New Mexico, 1979. Computational Method Development.

Kenneth L. Peddicord, Professor; Director, Nuclear Power Institute (979-845-5802) [k-peddicord@tamu.edu] Ph.D., University of Illinois, 1972. Nuclear Materials and Fuel Cycles. Professional Engineer.

John W. Poston, Professor (979-845-4175) [j-poston@tamu.edu] Ph.D., Georgia Institute of Technology, 1971. Health Physics; Radiation Biology; Medical Physics.

Jean Ragusa, Associate Professor; Associate Director, Institute for Scientific Computation (979-862-2033) [ragusa@ne.tamu.edu] Ph.D., Institut National Polytechnique de Grenoble, France, 2001. Computational Method Development; Nuclear Power Engineering: Reactor Analysis and Design.

Dan Reece, Professor; Director, Nuclear Science Center (979-847-8946) [w-reece@tamu.edu] Ph.D., Georgia Tech, 1988. Health Physics; Radiation Biology; Medical Physics; Nuclear Power Engineering: Reactor Analysis and Design.

Lin Shao, Assistant Professor (979-845-4107) [lshao@tamu.edu] Ph.D., University of Houston, 2001. Nuclear Materials and Fuel Cycles.

Pavel V. Tsvetkov, Assistant Professor (979-845-7078) [tsvetkov@tamu.edu] Ph.D., Texas A&M University, 2002. Nuclear Power Engineering: Reactor Analysis and Design; Space Power. Website: <http://aet.tamu.edu>

Karen Vierow, Associate Professor (979-458-0600) [vierow@ne.tamu.edu] Ph.D., University of Tokyo, 1999. Nuclear Power Engineering: Thermal Hydraulics Website: <http://nhts.tamu.edu>

Other Faculty

Leslie A. Braby, Senior Lecturer; Research Professor (979-862-1798) [labraby@tamu.edu] Ph.D., Oregon State University, 1972. Health Physics; Radiation Biology; Medical Physics.

Sunil S. Chirayath, Visiting Assistant Professor (979-862-2616) [sunil@ne.tamu.edu] Ph.D., University of Madras, India, 2005. Nuclear Security and Nonproliferation.

Ron Hart, Professor Emeritus (979-845-4157) [rhart@tamu.edu] Ph.D., University of California, Berkeley, 1967. Nuclear Materials and Fuel Cycles. Professional Engineer.

Cable Kurwitz, Lecturer (979-845-6126) [kurwitz@tamu.edu] Ph.D., Texas A&M University, 2009. Nuclear Power Engineering: Space Power; Thermal Hydraulics. Professional Engineer.

Craig Marianno Visiting Assistant Professor; TEES Research Engineer, NSSPI (979-845 -6093) [mairanno@tamu.edu] Ph.D., Oregon State University, 2000. Nuclear Security and Nonproliferation.

Ryan McClarren, Visiting Assistant Professor (979-845-8311) [rgm@tamu.edu] Ph.D., University of Michigan, 2007. Computational Method Development.

Milton McLain, Professor Emeritus (979-845-4161) [info@ne.tamu.edu] Ph.D., Georgia Institute of Technology, 1972. Health Physics; Radiation Biology; Medical Physics.

Paul Nelson, Professor Emeritus; Associate Director for International Programs, NSSPI (979-845-4132) [pnelson@ne.tamu.edu] Ph.D. , University of New Mexico, 1969. Nuclear Security and Nonproliferation.

Natela Ostrovskaya, Senior Lecturer (979-862-4409) [natela@ne.tamu.edu] Ph.D., Texas A&M University, 2005. Health Physics; Radiation Biology; Medical Physics.

Alexander Solodov, Lecturer (979-862-2628) [solodovaa@ornl.gov] Ph.D., Texas A&M University, 2007, Nuclear Security and Nonproliferation.

Galina Tsvetkova, Lecturer (979-845-4162) [tsvetkovag@tamu.edu] Ph.D., Texas A&M University, 2003. Health Physics; Radiation Biology; Medical Physics.

Nuclear Science and Engineering Research Centers

Center for Large-scale Scientific Simulations (CLASS)

Institute for National Security Education and Research (INSER)

Nuclear Security Science and Policy Institute (NSSPI)

Nuclear Science Center/1-MZ TRIGA Reactor

Facilities:

Ions & Materials Facility (Accelerator Lab 1)

AGN-201M Teaching Reactor

Fuel Cycle & Materials Laboratory

Laser Diagnostics Multiphase Flow Laboratory

Micro-Beam Cell Irradiation Facility

Nuclear Heat Transfer Systems Laboratory

Radiation Detection Measurement Laboratory

UNIVERSITY OF TEXAS at AUSTIN

Mechanical Engineering
1 University Station C2200
Austin, Texas 78712-0292
512-471-1131
FAX: 512-471-4589
Administrative Contact: Sheldon Landsberger
512-232-2467
s.landsberger@mail.utexas.edu
Website: <http://www.me.utexas.edu/~nuclear/>

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	n/a	n/a	n/a	n/a
Masters	3	6	7	7
PhD	3	10	3	1

Graduate Student Enrollment: 24 Masters/17 Ph.D.
ABET Accreditation: Mechanical Engineering

Distance Education Program

Offers Nuclear Engineering Courses and Degree Online
<http://www.me.utexas.edu/~nuclear/index.php/current-students/course-offerings>

Nuclear Science and Engineering Faculty

Sheldon Landsberger, Professor and Coordinator of Nuclear and Radiation Engineering Program (512-232-2467) [s.landsberger@mail.utexas.edu] Ph.D., University of Toronto, 1982. Radioactive and solid waste management; neutron activation analysis; Compton suppression low-level counting; air pollution; long distance air transport of heavy metals; radiation exposure; materials damage. Website: <http://www.me.utexas.edu/~nuclear/~landsberger>

Stephen R.F. Biegalski, Assistant Professor and Director Nuclear Engineering Teaching Lab (512-232-5380) [biegalski@mail.utexas.edu] Ph.D., University of Illinois, 1996. Nuclear analytical methods; nuclear instrumentation; nuclear reactor design; neutron radiography; analysis of environmental media with nuclear methods; modeling of environmental pathways; reactor operations and reactor safety analysis. Professional Engineer. Website: <http://www.me.utexas.edu/~nuclear/index.php/faculty-and-staff/89-steve-biegalski>

Mark Deinert, Assistant Professor (512-471-7916) [mdeinert@mail.utexas.edu] Ph.D., Cornell University, 2003. Applied nuclear physics, actinide transmutation in light-water reactors, advanced nuclear fuel cycles, transport theory, energy economics, thermal fluid transport in porous media within repository environments reaction diffusion processes. Website: <http://www.me.utexas.edu/~nuclear/~deinert>

Dale Klein, Professor, Associate Director, Energy Institute, and Associate Vice President of Research (512-499-4709) [dale.klein@ mail.utexas.edu] Ph. D., University of Missouri-Columbia, 1977. Radioactive Waste Disposal; Thermal Analysis of Nuclear Shipping Containers; Nuclear Weapon Dismantlement; Thermal-hydraulics
Website: <http://www.me.utexas.edu/~nuclear/index.php/faculty-and-staff/93-dale-klein>

Erich Schneider, Assistant Professor (512-232-5412) [eschneider@mail.utexas.edu] Ph.D., Cornell University, 2002. Computational modeling and simulation of nuclear system; nuclear systems engineering; research of nuclear reactor technologies; nuclear fuel; the sustainability of nuclear power; modeling the transport of neutrons and other subatomic particles to study the performance of nuclear fuel in very intense radiation fields such the next generation of nuclear reactors.; particle physics transport modeling in a NASA-sponsored project to study the interactions of heavy ions from solar radiation with microelectronic satellite components; anti-proliferation measures in the civilian nuclear power industry; modeling the effectiveness of proliferation countermeasures in gas centrifuge enrichment facilities.
Website: <http://www.me.utexas.edu/~nuclear/index.php/faculty-and-staff/90-erich-schneider>

Other Faculty

Ofofike A. Ezekoye , Professor (512-471-3085) [dezekoye@mail.utexas.edu] Ph.D., Univ. of California, Berkeley, 1991. Fire modeling; engine modeling; fundamental flame processes; combustion; heat transfer; aerosols. Website: <http://www.me.utexas.edu/~nuclear/index.php/faculty-and-staff/91-dk>

Kendra M Foltz-Biegalski, Research Engineer, Lecturer (512-418-0157) [kmfb98@hotmail.com] Ph. D., University of Illinois, 1988. Radiation detection and measurement; advanced algorithms; analytical modeling; radioxenon sampling; monitoring; data analysis; radiochemical separation techniques; software and GUI developmentnon-proliferation; atmospheric radionuclide identification; analytical modeling. Professional Engineer.
Website: <http://www.me.utexas.edu/~nuclear/index.php/faculty-and-staff/94-kendra-foltz-biegalski>

John R. Howell, Professor (512-471-3095) [jhowell@mail.utexas.edu] Ph.D., Case Institute of Technology (now Case Western Reserve University), 1962. Radiative Energy Transfer; Heat Transfer in Energy Systems; Heat Transfer with Combined Modes; Monte Carlo Methods; Inverse Analysis Techniques Website: <http://www.me.utexas.edu/~nuclear/index.php/faculty-and-staff/92-john-howell>

Elmira Popova, Professor (512-471-3078) [elmira@mail.utexas.edu] Ph.D., Case Western Reserve University, 1995. Risk informed asset management for electric power generation; Uncertainty quantification; Energy pricing and load forecast. Website: <http://www.me.utexas.edu/~popova/>

Mitch Pryor (512-471-5182) [mpryor@mail.utexas.edu] Ph.D., The University of Texas, Austin, 2002. Decision-making, operation, and control of robotic systems.
Website: http://www.robotics.utexas.edu/people/mitch_pryor/index.htm

Nuclear Science and Engineering Research Centers

Nuclear Engineering Teaching Laboratory (NETL): Constructed in 1986 at the J.J. Pickle Research Campus, a separate research center of the University of Texas, featuring a 1 Megawatt TRIGA reactor. Areas of study include: health physics, radiation engineering, research reactor beam port experiments, radioactive waste management and reactor and computational nuclear engineering.

UNIVERSITY OF UTAH

Utah Nuclear Engineering Program
50 S. Central Campus Drive, MEB 1206
Salt Lake City, UT 84112
801-581-6931
FAX: 801-585-5477
Administrative Contact: Amanda May
801-581-6931
amandam@civil.utah.edu
Website: www.nuclear.utah.edu

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	0	0	0	0
Masters	1	2	2	1
PhD	0	1	0	0

Graduate Student Enrollment: 4 Masters/5 Ph.D.

Nuclear Science and Engineering Faculty

Tatjana Jevremovic, EnergySolutions Presidential Endowed Chair Professor and Director of Utah Nuclear Engineering Program (801-587-9696) [Tatjana.Jevremovic@utah.edu] Ph.D., The University of Tokyo, 1993. Nuclear reactor simulation and modeling; radiation transport modeling and applications; Nuclear forensics and nuclear safeguards; Nuclear materials detection, simulation and modeling; Nuclear medicine; Radiation in space; Advanced visualizations of nuclear engineering software with accelerations; Environmental engineering.

Haori Yang, Assistant Professor (801-587-3066) [haoriyang@gmail.com] Ph.D., University of Michigan, Ann Arbor, 2009. Detector design and development, investigation of active interrogation technology and applications, radiation imaging systems, waste assay technologies, radiation monitoring systems, nuclear instrument and control system. Website: www.nuclear.utah.edu

Other Faculty

Dong-Ok Choe, Assistant Research Professor/TRIGA Reactor Supervisor (801-587-3066) [d.choe@utah.edu] Ph.D. University of Utah, 2000. Reactor physics, dose reconstruction, fission track analysis. Website: www.nuclear.utah.edu

UTAH STATE UNIVERSITY

Mechanical and Aerospace Engineering

4130 Old Main Hill

Logan, Utah 84322

435-797-0329

FAX: 435-797-2417

Administrative Contact: Heng Ban

435-797-2098

heng.ban@usu.edu

Website: www.mae.usu.edu

Graduate Student Enrollment: 7 Masters/7 Ph.D.

ABET Accreditation: Mechanical Engineering

VIRGINIA COMMONWEALTH UNIVERSITY

Mechanical Engineering
401 West Main Street
Richmond, Virginia 23284-3015
(804) 828-9117
FAX: (804) 827-7030
Administrative Contact: Gary Tepper
(804) 828-9117
gctepper@vcu.edu
Website: <http://www.egr.vcu.edu/me>

Graduate Student Enrollment: 25 Masters/1 Ph.D.
ABET Accreditation: B.S. in Mechanical Engineering

Nuclear Science and Engineering Faculty

Gary Tepper, Professor and Interim Chair (804-827-4079) [gctepper@vcu.edu] Ph.D. Radiation Detection; Nanoscale Materials.

Brian Hinderliter, Associate Professor (804-827-3517) [bhinderliter@vcu.edu] Ph.D. Nuclear Engineering; Radiation Shielding.

James T. McLeskey, Associate Professor (804-827-7008) [jtmcleskey@vcu.edu] Ph.D. Energy Conversion Systems.

Amy Throckmorton, Assistant Professor (804-827-2278) [althrock@vcu.edu], Ph.D. Medical Devices; Fluid Dynamics.

Other Faculty

Ross Anderson, Associate Professor (804-827-4000) [rcanderson@vcu.edu] Ph.D. Nuclear Engineering.

Nuclear Science and Engineering Research Centers

Specialized nuclear engineering laboratories include a reactor simulator and a table-top visible reactor. Other relevant research centers within the School of Engineering include a Nanomaterials Characterization Center (NCC) and the Virginia Microelectronics Center (VMC).

UNIVERSITY OF WISCONSIN, MADISON

Nuclear Engineering and Engineering Physics Program

1500 Engineering Drive

Madison, WI 53706

608-263-1646

FAX: 608-263-7451

Administrative Contact: Dennis Manthey

608-263-1647

manthey@engr.wisc.edu

Website: <http://www.engr.wisc.edu/ep/>

	7/06-7/07	07/07-06/08	07/08-6/09	7/09-6/10
B.S.	24	19	17	19
Masters	22	18	15	15
PhD	6	9	8	8

Graduate Student Enrollment: 22 Masters/53 Ph.D.

ABET Accreditation: Nuclear Engineering

Distance Education Program

Offers Nuclear Engineering Courses Online

Nuclear Science and Engineering Faculty

Michael L Corradini, Professor and Department Head (608-263-1646) [corradini@engr.wisc.edu] Ph.D., Massachusetts Institute of Technology, 1978. Multi-phase fluid mechanics and heat transfer; fission and fusion reactors; nuclear reactor safety; severe accident phenomena; power plant operation and design; energy policy; nuclear fuel cycle. Professional Engineer.
Website: <http://www.engr.wisc.edu/ep/faculty/>

Matt S. Allen, Professor (608-890-1619) [msallen@engr.wisc.edu] Ph.D., Georgia Institute of Technology, 2005. Dynamics, vibrations and controls; micro/nano systems; uncertainty and stochastic systems; linear/nonlinear system identification; model reduction/substructuring.
Website: <http://www.engr.wisc.edu/ep/faculty/>

Todd R. Allen, Professor (608-265-4083) [allen@engr.wisc.edu] Ph.D., University of Michigan, 1997. Engineering Physics; Materials Science and Engineering; Materials Science Program; Nuclear Engineering and Engineering Physics; Wisconsin Institute of Nuclear Systems. Website: <http://www.engr.wisc.edu/ep/faculty/>

Vicki M. Bier, Professor (608-262-2064) [bier@engr.wisc.edu] Ph.D., Massachusetts Institute of Technology, 1981. Technological hazards, risk analysis, decision analysis, operations research.
Website: <http://www.engr.wisc.edu/ep/faculty/>

Joseph Bisognano, Professor (608-332-4465) [jbisognano@src.wisc.edu] Ph.D., University of California-Berkeley, 1975. Accelerator physics; Theoretical analysis and simulation of collective phenomena in particle beams. Director SRC. Website: <http://www.engr.wisc.edu/ep/faculty>

James P. Blanchard, Professor (608-263-3091) [blanchard@engr.wisc.edu] Ph.D., University of California, Los Angeles, 1988. Nuclear microbatteries; radiation damage; fusion technology; laser-induced stresses; surface property characterization; reactor vessel embrittlement. Website: <http://www.engr.wisc.edu/ep/faculty/>

Riccardo Bonazza, Professor (608-265-2337) [bonazza@engr.wisc.edu] Ph.D., California Institute of Technology, 1992. Experimental fluid mechanics and heat transfer; impulsive unsteady phenomena; shock tube applications; laser and X-ray imaging & measuring techniques. Website: <http://www.engr.wisc.edu/ep/faculty/>

Wendy C. Crone, Professor (608-345-0547) [crone@engr.wisc.edu] Ph.D., University of Minnesota, 1998. Experimental mechanics of materials; characterization of materials such as shape memory alloys, hydrogels, and biomaterials; therapeutic medical devices. Website: <http://www.engr.wisc.edu/ep/faculty/>

Ray J. Fonck, Professor (608-263-7799) [fonck@engr.wisc.edu] Ph.D., Princeton, 1978. Plasma & fusion science and technology; plasma turbulence; burning plasmas; tokamaks; alternative fusion schemes; atomic physics and applied optics; high temperature plasma diagnostics. Website: <http://www.engr.wisc.edu/ep/faculty/>

Chris C. Hegna, Professor (608-263-0810) [hegna@engr.wisc.edu] Ph.D., Columbia, 1989. Theoretical plasma physics; fusion science; magnetic confinement of plasmas; magnetohydrodynamics. Website: <http://www.engr.wisc.edu/ep/faculty/>

Douglas L. Henderson, Professor (608-263-0808) [henderson@engr.wisc.edu] Ph.D., University of Wisconsin, Madison, 1987. Reactor physics; radiation transport; fusion reactor technology; nuclear waste. Website: <http://www.engr.wisc.edu/ep/faculty/>

Noah Hershkowitz, Professor (608-263-4970) [hershkowitz@engr.wisc.edu] Ph.D., Johns Hopkins, 1966. Plasma etching; plasma-aided manufacturing; basic plasma physics; ICRF effects; laboratory space plasma physics. Website: <http://www.engr.wisc.edu/ep/faculty/>

Gerald L. Kulcinski, Professor (608-263-2308) [kulcinski@engr.wisc.edu] Ph.D., University of Wisconsin, Madison, 1965. Magnetic/inertial fusion reactor systems studies; radiation damage and nuclear materials; lunar mining of helium-3. Website: <http://www.engr.wisc.edu/ep/faculty/>

Franklin K Miller, Professor (608-263-2479) [fkmiller@wisc.edu] Ph.D., Massachusetts Institute of Technology, 2005. Cryogenics; Thermodynamics of Superfluid 3He-4He mixtures; Sub-Kelvin cooling for space science; Energy Systems. Also Mechanical Engineering.

Website: <http://www.engr.wisc.edu/ep/faculty/>

Dane D Morgan, Professor (608-265-5879) [ddmorgan@wisc.edu] Ph.D., University of California-Berkeley, 1998. Computational materials science for materials design. Ab initio electronic structure methods and multiscale techniques for large time / length scales and thermokinetics. Also Materials Science and Engineering. Website: <http://www.engr.wisc.edu/ep/faculty/>

Gregory A. Moses, Professor (608-265-6567) [moses@engr.wisc.edu] Ph.D., University of Michigan, 1976. Fusion reactor design; technology enhanced learning; radiation hydrodynamics; computational engineering; nuclear reactor physics. Website: <http://www.engr.wisc.edu/ep/faculty/>

John M Pfothauer, Professor (608-263-4082) [pfot@engr.wisc.edu] Ph.D., University of Oregon, 1984. Cryogenics; low temperature refrigeration; applied superconductivity. Website: <http://www.engr.wisc.edu/ep/faculty/>

Carl R Sovinec, Professor (608-263-5525) [sovinec@engr.wisc.edu] Ph.D., University of Wisconsin, Madison, 1996. Computational plasma physics; computational fluid dynamics; magnetohydrodynamics; numerical methods for partial differential equations. Website: <http://www.engr.wisc.edu/ep/faculty/>

Izabela Szlufarska, Professor (608-265-5878) [izabela@engr.wisc.edu] Ph.D., University of Tennessee, 2004. Atomistic simulations: Massively parallel molecular dynamics and ab initio-based simulations. -- Nanocrystalline materials: Computational design of materials with superior mechanical properties; Grain boundary nanoengineering; Nanoindentation. -- Fundamentals of friction & adhesion at the nanoscale -- Coupling between surface/interface chemistry and mechanical properties: Materials for MEMS applications in extreme environments. -- Nano-bio-mechanics: Viscoelastic response of mechanical bio-sensors. -- Materials for nuclear applications: Radiation damage resistance, multi-scale modeling of defect and impurity kinetics. Website: <http://www.engr.wisc.edu/ep/faculty/>

Bruce R. Thomadsen, Professor, (608-263-4183) [brthomad@wisc.edu] Ph.D., University of Wisconsin, Madison, 2001. Also Biomedical Engineering, Human Oncology, Medical Physics Brachytherapy Physics, Radiation Dosimetry, Patient Safety Biomedical Engineering Center for Translational Research, Center for Human Performance and Risk Analysis. Website: <http://www.engr.wisc.edu/ep/faculty/>

Mario F. Trujillo, Professor. (608-262-0944) [mtrujillo@wisc.edu] Ph.D., University of Illinois, 2001. Thermodynamics, Fluid Dynamics Computational Fluid Dynamics. Also Engine Research Center, Mechanical Engineering. Website: <http://www.engr.wisc.edu/ep/faculty/>

Ray Vanderby, Professor (608-263-9593) [vanderby@ortho.wisc.edu] Ph.D., Purdue, 1975. Tissue mechanics (bone, ligament, tendon, and cartilage); tissue engineering; connective tissue healing; orthopedic biomechanics. Professional Engineer. Website: <http://www.engr.wisc.edu/ep/faculty/>

Francesco Volpe, Professor (608-262-4854) [volpe@engr.wisc.edu] Ph.D., Max-Planck Institute, 2003. Plasma Physics and Magnetic Confinement Fusion; Microwave Heating, Current Drive and Diagnostics; Magnetohydrodynamic Instabilities and their Control. Website: <http://www.engr.wisc.edu/ep/faculty/>

Fabian Waleffe, Professor (608-263-3269) [waleffe@engr.wisc.edu] Ph.D., Massachusetts Institute of Technology, 1989. Math; fluid dynamics; bifurcations and turbulence; scientific computing.
Website: <http://www.engr.wisc.edu/ep/faculty/>

Paul P. H. Wilson, Professor (608-263-0807) [wilsonp@engr.wisc.edu] Ph.D., University of Wisconsin, Madison, 1999. Nuclear fuel cycles; Transmutation/depletion/activation; Proliferation analysis; Energy policy; Monte Carlo methods; Reactor core design & analysis. Website:
<http://www.engr.wisc.edu/ep/faculty/>

Robert J. Witt, Professor (608-263-2760) [witt@engr.wisc.edu] Ph.D., Massachusetts Institute of Technology, 1987. Computational methods in fluid and solid mechanics.
Website: <http://www.engr.wisc.edu/ep/faculty/>

Other Faculty

Leslie M. Smith, Professor (608-262-3852) [lsmith@math.wisc.edu] Ph.D., Massachusetts Institute of Technology, 1988. Statistical physics, turbulence and turbulence modeling for engineering and geophysical applications; applied mathematics, stability theory and fluid dynamics; field theoretical techniques, the dynamic renormalization group and universality in complex systems.
Website: <http://www.engr.wisc.edu/ep/faculty/>

Nuclear Science and Engineering Research Centers

Center for Human Performance and Risk Analysis

Center for Plasma-Aided Manufacturing

Center for Plasma Theory and Computation

Energy Frontiers Research Center

Fusion Technology Institute

Pegasus Plasma Experiment

Synchrotron Radiation Center

UW Energy Institute

Wisconsin Institute of Nuclear Systems

Wisconsin Public Utility Institute

Wisconsin Shock Tube

ANS STUDENT SECTIONS

CALIFORNIA

University of California-Berkeley

Dr. Jasmina L. Vujic
Department of Nuclear Engineering
4105 Etcheverry Hall
Berkeley, CA 94720
Phone: 510-643-8085
Fax: 510-643-9685
Website:
<http://www.nuc.berkeley.edu/ans/>

COLORADO

Colorado School of Mines

Dr. Jeffrey C. King
Nuclear Science & Engineering
Colorado School of Mines
201 Hill Hall
1500 Illinois Street
Golden, CO 80401
Phone: 303-384-2133
Website:
<http://organizations.mines.edu/ans>

FLORIDA

University of Florida

Dr. DuWayne Schubring
Department of Nuclear Engineering
202 Nuclear Sciences Center
Gainesville, FL 32611
Phone: 352-392-1408
Fax: 352-392-3380
Website: <http://ans.nre.ufl.edu/>

GEORGIA

Georgia Institute of Technology

Dr. Chaitanya S. Deo
Georgia Institute of Technology
George W. Woodruff School
Nuclear & Radiological Engineering and
Medical Physics Programs
Atlanta, GA 30332-0405
(404) 894-3718
FAX: (404) 894-3733
Website:
<http://cyberbuzz.gatech.edu/ans/>

IDAHO

Idaho State University

George R. Imel, Ph.D.
Institute of Nuclear Science and
Engineering
Idaho State University
Idaho National Laboratory
Suite 332
1776 Science Center Dr.
Idaho Falls, ID 83402
Phone: 208-282-7809
Fax: 208-282-7735

ILLINOIS

University of Illinois at Urbana – Champaign

Dr. Rizwan Uddin
University of Illinois
Dept. of Nuclear, Plasma, and
Radiological Engineering
104 S. Wright Street
Urbana, IL 61801
Phone: 217-244-4944
Fax: 217-333-2906
Website:
<http://ans.ne.uiuc.edu/Home.html>

INDIANA

Purdue University

Mr. Benjamin Revis
Assistant Professor
Purdue University
1290 School of Nuclear Engineering
West Lafayette, IN 47907
Phone: 765-494-4480
Fax: 765-494-9570
Website:
<http://www.ecn.purdue.edu/~ans/>

KANSAS

Kansas State University

Dr. Douglas McGregor
318 Rathbone Hall
Manhattan, KS 66506
Phone: (785) 532-5610
FAX: (785) 532-7057

MASSACHUSETTS

Massachusetts Institute of Technology

Mr. Benoit Forget
Dept. of Nuclear Science and
Engineering
77 Massachusetts Ave.
Cambridge, MA. 02139-4307
(617)253-7316
FAX: (617)258-7437
Website:
<http://web.mit.edu/ans/www/ans.html>

IOWA

Iowa State University

Dr. Gregory M. Maxwell
Iowa State University
2025 Black Engineering Bldg.
Ames, IA 50011
Phone: 515-294-8645

MARYLAND

United States Naval Academy

Dr. Martin E. Nelson
NAOME Department
590 Hallaway Road
Annapolis, MD 21402
Phone: 410-293-6427
Fax: 410-293-2591

University of Maryland

Dr. Gary A. Pertmer
Associate Dean
A. James Clark School of Engineering
University of Maryland
College Park, MD 20742
Phone: 301-405-5284
Fax: 301-314-9867

University of Massachusetts Lowell

Dr. Gilbert J. Brown
Nuclear Engineering Department
Lowell, MA 01854
Phone: 508-934-3166
Fax: 508-934-3047

MICHIGAN

University of Michigan

Pam Derry
Cooley Building
2355 Bonisteel Blvd.
Ann Arbor, MI 48109-2104
Fax: 313-763-4540
Website:
<http://www.engin.umich.edu/soc/ans/>

MISSOURI

Missouri University of Science and Technology

Dr. Carlos H. Castano
Nuclear Engineering Program
224 Fulton Hall, 301 W. 14th St
Rolla, MO 65409-1520
Phone: 573-341-6766
FAX: 573-341-6309
Website: <http://ans.mst.edu>

University of Missouri-Columbia

Dr. William H. Miller
College of Nuclear Engineering
E2433 Engineering Bldg. East
Columbia, MO 65211
Phone: (573) 882-3550
FAX: (573) 884-4801

NEVADA

University of Nevada - Las Vegas

Dr. Ken Czerwinski
University of Nevada/Las Vegas
HRC 245
4505 Maryland Pkwy Box 454027
Las Vegas, NV 89154-4027
Phone: 702-895-1452
Fax: 702-895-3936

NEW MEXICO

University of New Mexico

Dr. Robert D. Busch
Chemical & Nuclear Engr. Department
Fec 209
Albuquerque, NM 87131-1341
Phone: 505-277-8027
Fax: 505-277-5433

NEW YORK

Rensselaer Polytechnic Institute

Peter F. Caracappa
Radiation Safety Officer
Division of Human Resources
110 8th Street
Troy, NY 12180-3590
Phone: 518-276-2212
Fax: 518-276-4007
Website: <http://ans.union.rpi.edu/>

United States Military Academy

Dr. Brian Moretti
Department of Physics
Building 753
United States Military Academy
West Point, NY 10996-1790
Phone: 845-938-3182

NORTH CAROLINA

North Carolina State University

Ms. Lisa Marshall
Department of Nuclear Engineering
NC State University
Room 2102 Burlington Engineering Labs
2500 Stinson Drive
Raleigh, NC 27695-7909
Phone: 919-515-3347
Fax: 919-515-5115
Website:
<http://students.engr.ncsu.edu/ans/>

OHIO

Air Force Institute of Technology

Dr. Benjamin Raymond Kowash
Assistant Prof. of Nuclear Engineering
2950 Hobson Way
Bldg. 640, ENP
Dayton, OH 45433-7765
Phone: 937-255-3636 x4571
Website:
<http://www.afit.edu/en/StudentOrgs/ANS/>

Ohio State University

Dr. Carol S. Smidts
The Ohio State University
Department of Mechanical Engineering
Nuclear Engineering Program
E 418 Scott Laboratory
201 W. 19th Avenue, Columbus, OH
43210
Phone: 614-292-6727
Fax: 614-292-3163
Website: nuclear.osu.edu

University of Cincinnati

M.I.N.E. Dept.
University of Cincinnati
PO Box 210072
Cincinnati, OH 45221-0072
Phone: 513-556-2002
Fax: 513-556-3390

OREGON

Oregon State University

Dr. Todd Palmer
Oregon State University
Department of Nuclear Engineering and
Radiation Health Physics
116 Radiation Center
Corvallis, OR 97331-5902
Phone: 541-737-6335
Website: <http://www.ne.orst.edu/ans/>

PENNSYLVANIA

Pennsylvania State University

Dr. Seungjin Kim
Assistant Professor
Pennsylvania State University
230 Reber Bldg.
Dept. of Mechanical & Nuclear Engineering
University Park, PA 16802
Phone: 814-867-1783
Fax: 814-865-8499
Website: <http://www.clubs.psu.edu/up/ans/>

SOUTH CAROLINA

South Carolina State University

Dr. Kenneth Okafor
Nuclear Engineering Program
South Carolina State University
300 College Street, Northeast
Orangeburg, SC 29117
Phone: 803-536-4758

University of South Carolina

Dr. Travis W. Knight
University of South Carolina
Dept. of Mechanical Engineering
Nuclear Engineering Program
300 Main St.
Columbia, SC 29208
Phone: 803-777-1465
Fax: 803-777-0106
twknight@sc.edu

TEXAS

Texas A&M University

Dr. Shannon M. Bragg-Sitton
Assistant Professor
3133 TAMU
College Station, TX 77843-3133
Phone: 979- 979-862-8446
Fax: 979-845-6443
Website: <http://ans.tamu.edu/>

University of Texas at Austin

Dr. Erich A Schneider
University of Texas at Austin
Nuclear Engineering Teaching
Laboratory, R9000
Austin, TX 78712
Phone: 512-232-5412
Fax: 512-471-4589

TENNESSEE

University of Tennessee

Dr. Lawrence H. Heilbronn
The University of Tennessee
Nuclear Engineering
214 Pasqua Nuclear Engineering
Building
1004 Estabrook Road
Knoxville, TN 37996-2300
Phone: 865-974-7571
Website:
<http://www.engr.utk.edu/~answeb/>

UTAH

University of Utah

Tatjana Jevremovic, Ph.D.
EnergySolutions Presidential Endowed
Chair Professor in Nuclear Engineering
Director, University of Utah Nuclear
Engineering Program
Professor, Civil and Environmental
Engineering
Professor, Chemical Engineering
2298 MEB
50 South Central Drive
University of Utah
Salt Lake City, UT 84112
Phone: 801-587-9696

VIRGINIA**Virginia Polytechnic Institute and State University**

Dr. Mark Pierson
Associate Professor
Virginia Tech
332-4 Randolph Hall
MC 0238
Blacksburg, VA 24061
Phone: 540-231-9112

WISCONSIN**University of Wisconsin**

Paul P.H. Wilson
Dept. of Engineering Physics
408 Eng. Research Bldg.
1500 Johnson Drive
Madison, WI 53706
Phone: 608-263-0807
FAX: (608) 263-7451
witt@enr.wisc.edu

QUEBEC**Ecole Polytechnique de Montreal**

Dr. Guy Marleau
Nuclear Engineering Institute
2500, chemin de Polytechnique
Montreal, Quebec H3T1J4
Phone: 514-340-4711 x 4204

RESEARCH TRAINING AND FISSION REACTORS IN NORTH AMERICA

UNIVERSITY OF CALIFORNIA, DAVIS

(UCD/MNRC) TRIGA 2000 kW - Dr. Wade J. Richards, Director
Davis McClellan Nuclear Radiation Center
5335 Price Avenue, Bldg. 258, McClellan, Ca 95652
(916) 614-6200/FAX: (915) 614-6250
wjrichards@ucdavis.edu

UNIVERSITY OF CALIFORNIA, IRVINE

TRIGA-MkI, 250 kW - Dr. George E. Miller, Director
Department of Chemistry, Irvine, CA 92697-2025
(949) 824-4664/FAX: (949) 824-8571
gemiller@uci.edu

COLORADO SCHOOL OF MINES

TRIGA 1000 kW in Partnership with the U.S. Geological Survey
Dr. Jeff King, CSM 303-384-2133, kingjc@mines.edu
Tim DeBey, USGS 303-236-4726, tdebey@usgs.gov
Denver Federal Center, Denver, CO 80225-0046

UNIVERSITY OF FLORIDA

UFTR 100 kW
Dept. of Nuclear and Radiological Engineering
202 NSC, P.O. Box 118300
Gainesville, FL 32611-8300
(352) 392-1408 ext. 317/FAX: (352) 392-3380; vernet@ufl.edu

IDAHO STATE UNIVERSITY

AGN-201P-103, 0.005 kW – Dr. John S. Bennion, Director
Lillibridge Engineering Laboratory, Pocatello, ID 83209-8060
(208) 282-3351/FAX: (208) 282-4538; jbenion@isu.edu

KANSAS STATE UNIVERSITY

TRIGA-MkII, 250 kW – Dr. Jeff Geuther, Director
Nuclear Engineering Department, Ward Hall, Manhattan, KS 66506-2503
785-532-6657; geuther@ksu.edu

UNIVERSITY OF MARYLAND

TRIGA 250 kW – Dr. Mohamad Al-Sheikhly, Director
Nuclear Engineering Program, Department of Materials & Nuclear Engineering, College Park, MD 20742
(301) 405-7448/ FAX: (301) 314-9467
mohamad@eng.umd.edu

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

MITR, 5000 kW - Prof. David E. Moncton
Nuclear Reactor Laboratory, 138 Albany Street, Cambridge, MA 02139
(617) 253-4202/FAX: (617) 253-7300; jbernard@mit.edu

UNIVERSITY OF MASSACHUSETTS, LOWELL

1 MW Pool type reactor - Mr. Leo Bobek, Director
Radiation Laboratory, 1 University Avenue, Lowell, MA 01854
(978) 934-3366/FAX: (978) 934-4067
leo_bobek@uml.edu

UNIVERSITY OF MISSOURI, COLUMBIA

MURR, 10,000 kW – Ralph Butler, Interim Director
Research Reactor Center, Columbia, MO 65211
(573) 882-4211/FAX: (573) 882-6360
butlerra@missouri.edu; <http://www.missouri.edu/~murrwww/>

MISSOURI UNIVERSITY OF SCIENCE & TECHNOLOGY

UMRR 200 kW – Dr. Arvind Kumar, Director
Department of Mining & Nuclear Engineering, 222 Fulton Hall, 301 W 14th St.
Rolla, MO 65409-0170
(William E. Bonzer, Manager) (573) 341-4236 / FAX: (573) 341-4237; webonzer@mst.edu

ECOLE POLYTECHNIQUE DE MONTREAL

SLOWPOKE 20 kW - Cornelia Chilian, Director of SLOWPOKE laboratory
(514) 340-4711, ext. 4754
cornelia.chilian@polymtl.ca

UNIVERSITY OF NEW MEXICO

AGN-201M-112, 0.005 kW – Dr. Robert Busch, Reactor Supervisor
Chemical and Nuclear Engineering Department, FEC209, Albuquerque, NM 87131-1341
(505) 277-5431/FAX: (505) 277-5433; busch@unm.edu

NORTH CAROLINA STATE UNIVERSITY

PULSTAR 1000 kW – Dr. Ayman I. Hawari, Director
Department of Nuclear Engineering, Campus Box 7909, Raleigh, NC 27695
(919) 515-4598/FAX: (919) 513-1276; ayman.hawari@ncsu.edu

OHIO STATE UNIVERSITY

OSURR, 500 kW – Dr. Thomas E. Blue, Director
E420 Scott Laboratory, 201 West 19th Avenue, Columbus, OH 43210-1142
(614) 292-7979/FAX: (614) 688-5493; blue.1@osu.edu

Point of Contact for the OSU Nuclear Reactor Lab: Andrew Kauffman, Assoc. Director
1298 Kinnear Rd, Columbus, OH 43212-1154
(614) 688-8220; Kauffman.9@osu.edu

OREGON STATE UNIVERSITY

TRIGA MkF 1100 kW – Dr. Stephen Binney, Director
A100 Radiation Center, Corvallis, OR 97331-5903
(541) 737-2341/FAX: (541) 737-0480
binneys@rc.orst.edu

THE PENNSYLVANIA STATE UNIVERSITY

TRIGA, 1000 kW – Prof. Kenan Unlu
Breazeale Nuclear Reactor, Radiation Science and Engineering Center
University Park, PA 16802-2301; (814)
865-6351/FAX: (814) 863-4840; k-unlu@psu.edu

PURDUE UNIVERSITY

Nuclear Reactor, 1.0 kW – Jere H. Jenkins, Director
School of Nuclear Engineering, 400 Central Drive West Lafayette, IN 47907
(765) 496-3573; jere@ecn.purdue.edu

REED COLLEGE

Triga-MkI, 250 kW – Mr. Stephen Frantz, Director
Reed Reactor Facility, Portland, OR 97202-8199
(503) 777-7222/FAX: (503) 777-7274
reactor@reed.edu

RENSSELAER POLYTECHNIC INSTITUTE

Critical Facility, 0.1 kW – Dr. Glenn Winters, Director
Nuclear Engineering and Engineering Physics Program, 110 Eighth Street, Troy, NY 12180-3590

RHODE ISLAND NUCLEAR SCIENCE CENTER

RINSC, 2000 kW – Mr. Terry Tehan, Director
16 Reactor Road, Narragansett, RI 02882-1197
(401) 789-9391/FAX: (401) 782-4201
ttehan@gso.uri.edu

ROYAL MILITARY COLLEGE OF CANADA

SLOWPOKE-2 Facility
Kathy S. Nielsen, Director
613-541-6000, ext. 6385; nielsen-k@rmc.ca

TEXAS A&M UNIVERSITY

AGN-201, 0.005 kW Dr. William Charlton, Reactor Supervisor

Department of Nuclear Engineering, 3133 TAMU, College Station, TX 77843-3133
wcharlton@tamu.edu
One-megawatt TRIGA (Testing, Research, Isotopes, General Atomics) reactor
Dr. Daniel Reece, 979.845.7551
Department of Nuclear Engineering, 3133 TAMU, College Station, TX 77843-3133
reece@tamu.edu

UNIVERSITY OF TEXAS AT AUSTIN

TRIGA-MkII, 1100 kW – Paul Michael Whaley, Associate Director
Nuclear Engineering Teaching Lab, J.J. Pickle Research Campus #159, Austin, TX 78712
(512) 471-5373/FAX: (512) 471-4589
<http://www.me.utexas.edu/~net1>

UNIVERSITY OF UTAH

TRIGA-MkI, 100 kW - Dr. Tatjana Jevremovic, EnergySolutions Presidential
Endowed Chair Professor in Nuclear Engineering and Director, University of Utah Nuclear Engineering
Program, Salt Lake City, UT 84112
(801) 587-9696
Tatjana.Jevremovic@utah.edu

WASHINGTON STATE UNIVERSITY

Modified TRIGA, 1000 kW – Dr. Gerald E. Tripard, Director
Nuclear Radiation Center, Pullman, WA 99164-1300
(509) 335-0172/FAX: (509) 335-4433
gtripard@wsu.edu

UNIVERSITY OF WISCONSIN, MADISON

TRIGA MkF 1000 kW – Mr. Robert J. Agasie, Director
Department of Engineering Physics, 141 Mechanical Engineering Building,
1513 University Avenue, Madison, WI 53706
(608) 262-3392/FAX: (608) 262-8590
agasie@enr.wisc.edu

FACULTY INDEX

First Name	Middle Initial	Last Name	Home Institution
Tunc		A Idemir	OHIO STATE UNIVERSITY
Hany	S	Abdel-Khalik	NORTH CAROLINA STATE UNIVERSITY
Said	I.	Abdel-Khalik	GEORGIA INSTITUTE OF TECHNOLOGY
Ali	E.	Abdou	KANSAS STATE UNIVERSITY
Marvin	L.	Adams	TEXAS A&M UNIVERSITY
Stephanie	G	Adams	VIRGINIA COMMONWEALTH UNIVERSITY
Joonhong		Ahn	UNIVERSITY OF CALIFORNIA-BERKELEY
Gamal		Akabani	TEXAS A&M UNIVERSITY
Ziya	A.	Akcasu	UNIVERSITY OF MICHIGAN
Muthanna	H	Al-Dahhan	UNIVERSITY OF MISSOURI- ROLLA (Missouri University of Science & Technology)
Mohammed	S.	Aljohani	UNIVERSITY OF MISSOURI- ROLLA (Missouri University of Science & Technology)
Jean Paul		Allain	PURDUE UNIVERSITY
Matt	S	Allen	UNIVERSITY OF WISCONSIN, MADISON
Todd	R	Allen	UNIVERSITY OF WISCONSIN, MADISON
Ross		Anderson	VIRGINIA COMMONWEALTH UNIVERSITY
Dmitriy	Y	Anistratov	NORTH CAROLINA STATE UNIVERSITY
George		Apostolakis	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Michael		Aref	UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
Yugo		Ashida	UNIVERSITY OF MICHIGAN
Jayasimha		Atulasimha	VIRGINIA COMMONWEALTH UNIVERSITY
Michael		Atzmon	UNIVERSITY OF MICHIGAN
Steve		Aumeier	IDAHO STATE UNIVERSITY
David		Aumiller	UNIVERSITY OF PITTSBURGH
Maria		Avramova	PENNSYLVANIA STATE UNIVERSITY
Roy	A	Axford	UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
Yousry	Y	Azmy	NORTH CAROLINA STATE UNIVERSITY
Ken		Balkey	UNIVERSITY OF PITTSBURGH
Ronald	G.	Ballinger	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
John		Bartocci	UNIVERSITY OF PITTSBURGH
Abdel-Moez	E.	Bayoumi	UNIVERSITY OF SOUTH CAROLINA
Kara	N	Beharry	SOUTH CAROLINA STATE UNIVERSITY
John	A.	Bernard, Jr.	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Bruce		Berquist	UNIVERSITY OF PITTSBURGH
Fred	R.	Best	TEXAS A&M UNIVERSITY
Stephen	R.	Biegalski	UNIVERSITY OF TEXAS, AUSTIN

Alex	F.	Bielajew	UNIVERSITY OF MICHIGAN
Vicki	M	Bier	UNIVERSITY OF WISCONSIN, MADISON
Joseph		Bisognano	UNIVERSITY OF WISCONSIN, MADISON
Harold		Blackman	IDAHO STATE UNIVERSITY
James	P	Blanchard	UNIVERSITY OF WISCONSIN, MADISON
Dwayne		Blaylock	GEORGIA INSTITUTE OF TECHNOLOGY
Robert	C	Block	RENSELAER POLYTECHNIC INSTITUTE
Thomas	E	Blue	OHIO STATE UNIVERSITY
Wesley	E.	Bolch	UNIVERSITY OF FLORIDA
Riccardo		Bonazza	UNIVERSITY OF WISCONSIN, MADISON
Ray	S	Booth	UNIVERSITY OF TENNESSEE, KNOXVILLE
Bob		Boston	IDAHO STATE UNIVERSITY
Mohamed	A.	Bourham	NORTH CAROLINA STATE UNIVERSITY
David	R	Boyle	TEXAS A&M UNIVERSITY
Leslie	A	Braby	TEXAS A&M UNIVERSITY
Shannon	M.	Bragg-Sittion	TEXAS A&M UNIVERSITY
Jack	S.	Brenizer, Jr.	PENNSYLVANIA STATE UNIVERSITY
Jeffrey		Brooks	PURDUE UNIVERSITY
Forrest		Brown	UNIVERSITY OF MICHIGAN
Frederick	W.	Buckman	UNIVERSITY OF MICHIGAN
Adriaan		Buijs	McMASTER UNIVERSITY
Kermit		Bunde	IDAHO STATE UNIVERSITY
Jacopo		Buongiorno	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Eric	A.	Burgett	IDAHO STATE UNIVERSITY
Michael		Burke	UNIVERSITY OF PITTSBURGH
Jeremy		Busby	UNIVERSITY OF MICHIGAN
Robert	D	Busch	UNIVERSITY OF NEW MEXICO
Lei (Raymond)		Cao	OHIO STATE UNIVERSITY
Zongjian	(Z.J.)	Cao	GEORGIA INSTITUTE OF TECHNOLOGY
Paola		Cappellaro	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Peter	F	Caracappa	RENSELAER POLYTECHNIC INSTITUTE
Carlos	H.	Castano	UNIVERSITY OF MISSOURI- ROLLA (Missouri University of Science & Technology)
Gary	L.	Catchen	PENNSYLVANIA STATE UNIVERSITY
Peter		Catto	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Indrajit		Charit	UNIVERSITY OF IDAHO
William	S	Charlton	TEXAS A&M UNIVERSITY
Sow-Hsin		Chen	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Fanglin (Frank)		Chen	UNIVERSITY OF SOUTH CAROLINA
Mohammed		Cherkaoui	GEORGIA INSTITUTE OF TECHNOLOGY

Fan-Bill		Cheung	PENNSYLVANIA STATE UNIVERSITY
Sunil	S.	Chirayath	TEXAS A&M UNIVERSITY
Sang		Cho	GEORGIA INSTITUTE OF TECHNOLOGY
Dong-Ok		Choe	UNIVERSITY OF UTAH
Chan		Choi	PURDUE UNIVERSITY
Richard	N.	Christensen	OHIO STATE UNIVERSITY
Minking		Chyu	UNIVERSITY OF PITTSBURGH
Shaun	D.	Clarke	UNIVERSITY OF MICHIGAN
Daniel	R.	Cohn	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Daniel		Cole	UNIVERSITY OF PITTSBURGH
Gary	W	Cooper	UNIVERSITY OF NEW MEXICO
Lawrence		Corr	UNIVERSITY OF PITTSBURGH
Michael	L	Corradini	UNIVERSITY OF WISCONSIN, MADISON
John		Crepeau	UNIVERSITY OF IDAHO
Wendy	C	Crone	UNIVERSITY OF WISCONSIN, MADISON
Mariesa		Crow	UNIVERSITY OF MISSOURI- ROLLA (Missouri University of Science & Technology)
Musa	B	Danjaji	SOUTH CAROLINA STATE UNIVERSITY
Yaron		Danon	RENSELAER POLYTECHNIC INSTITUTE
Jack		Davis	UNIVERSITY OF MICHIGAN
Delbert	E.	Day	UNIVERSITY OF MISSOURI- ROLLA (Missouri University of Science & Technology)
Cassiano	R. E.	de Oliveira	UNIVERSITY OF NEW MEXICO
Mark		Deinert	UNIVERSITY OF TEXAS, AUSTIN
Richard	S.	Denning	OHIO STATE UNIVERSITY
Chaitanya	S.	Deo	GEORGIA INSTITUTE OF TECHNOLOGY
H.	L.	Dodds	UNIVERSITY OF TENNESSEE, KNOXVILLE
Thomas	J.	Dolan	UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
Joseph	M	Doster	NORTH CAROLINA STATE UNIVERSITY
Thomas		Downar	UNIVERSITY OF MICHIGAN
Donald	A	Drew	RENSELAER POLYTECHNIC INSTITUTE
Michael	J.	Driscoll	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
James	J.	Duderstadt	UNIVERSITY OF MICHIGAN
Donald	J	Dudziak	NORTH CAROLINA STATE UNIVERSITY
William	L	Dunn	KANSAS STATE UNIVERSITY
Mary Lou		Dunzik-Gougar	IDAHO STATE UNIVERSITY
Jacob		Eapen	NORTH CAROLINA STATE UNIVERSITY
Robert	M.	Edwards	PENNSYLVANIA STATE UNIVERSITY
Gary		Elder	UNIVERSITY OF PITTSBURGH
Eric	S.	Elder	GEORGIA INSTITUTE OF TECHNOLOGY
Mohamed	s.	El-Genk	UNIVERSITY OF NEW MEXICO
Mark	J	Embrechts	RENSELAER POLYTECHNIC INSTITUTE

Vinny		Esposito	UNIVERSITY OF PITTSBURGH
Rodney	C.	Ewing	UNIVERSITY OF MICHIGAN
Ofodike	A.	Ezekoye	UNIVERSITY OF TEXAS, AUSTIN
Abdollah	T	Farsoni	OREGON STATE UNIVERSITY
Audeen		Fentiman	PURDUE UNIVERSITY
Linda		Figueroa	COLORADO SCHOOL OF MINES
Phillip		Finck	IDAHO STATE UNIVERSITY
Marek		Flaska	UNIVERSITY OF MICHIGAN
Ronald	F.	Fleming	UNIVERSITY OF MICHIGAN
Michael		Flynn	UNIVERSITY OF MICHIGAN
Kendra	M	Foltz-Biegalski	UNIVERSITY OF TEXAS, AUSTIN
Ray	J	Fonck	UNIVERSITY OF WISCONSIN, MADISON
Mario		Fontana	UNIVERSITY OF TENNESSEE, KNOXVILLE
John		Ford	TEXAS A&M UNIVERSITY
Benoit		Forget	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Charles	W.	Forsberg	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
John	E.	Foster	UNIVERSITY OF MICHIGAN
Larry		Foulke	UNIVERSITY OF PITTSBURGH
Tim		Fox	GEORGIA INSTITUTE OF TECHNOLOGY
Jeffrey	P.	Freidberg	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Mohamed		Gad-el-Hak	VIRGINIA COMMONWEALTH UNIVERSITY
Barry	D	Ganapol	UNIVERSITY OF TENNESSEE, KNOXVILLE
Todd	C	Gansauge	IDAHO STATE UNIVERSITY
Masab	H.	Garada	UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
Robin	P	Gardner	NORTH CAROLINA STATE UNIVERSITY
Srinivas		Garimella	GEORGIA INSTITUTE OF TECHNOLOGY
S.	Mostafa	Ghiaasiaan	GEORGIA INSTITUTE OF TECHNOLOGY
Tushar	K	Ghosh	UNIVERSITY OF MISSOURI, COLUMBIA
Ronald	M.	Gilgenbach	UNIVERSITY OF MICHIGAN
Daniel		Gill	UNIVERSITY OF PITTSBURGH
David	R.	Gilland	UNIVERSITY OF FLORIDA
John	G.	Gilligan	NORTH CAROLINA STATE UNIVERSITY
Michael	W.	Golay	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Bethany	L.	Goldblum	UNIVERSITY OF TENNESSEE, KNOXVILLE
Mitchell		Goodsitt	UNIVERSITY OF MICHIGAN
Ehud		Greenspan	UNIVERSITY OF CALIFORNIA-BERKELEY
Uwe		Greife	COLORADO SCHOOL OF MINES
Andrei		Gribok	UNIVERSITY OF TENNESSEE, KNOXVILLE
David		Griesheimer	UNIVERSITY OF PITTSBURGH
Martin	L.	Grossbeck	UNIVERSITY OF TENNESSEE, KNOXVILLE
Stephen		Guetersloh	TEXAS A&M UNIVERSITY
Fred		Gunnerson	UNIVERSITY OF IDAHO

Alireza		Haghighat	UNIVERSITY OF FLORIDA
Brian	K.	Hajek	OHIO STATE UNIVERSITY
Thomas	C	Haley	RENSELAER POLYTECHNIC INSTITUTE
Howard	L.	Hall	UNIVERSITY OF TENNESSEE, KNOXVILLE
David	M.	Hamby	OREGON STATE UNIVERSITY
Luther	L	Hamm	UNIVERSITY OF SOUTH CAROLINA
Mark		Hammig	UNIVERSITY OF MICHIGAN
Daniel	F.	Hang	UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
Sivanandan		Harilal	PURDUE UNIVERSITY
Jason	T	Harris	IDAHO STATE UNIVERSITY
Mark	J.	Harrison	UNIVERSITY OF FLORIDA
Ron		Hart	TEXAS A&M UNIVERSITY
Michael		Hartman	UNIVERSITY OF MICHIGAN
David		Haser	UNIVERSITY OF PITTSBURGH
Yassin	A.	Hassan	TEXAS A&M UNIVERSITY
Ahmed		Hassanein	PURDUE UNIVERSITY
Ayman	I.	Hawari	NORTH CAROLINA STATE UNIVERSITY
Jason	P.	Hayward	UNIVERSITY OF TENNESSEE, KNOXVILLE
Zhong		He	UNIVERSITY OF MICHIGAN
Alain		Hébert	ÉCOLE POLYTECHNIQUE DE MONTRÉAL
Adam	A	Hecht	UNIVERSITY OF NEW MEXICO
Chris	J	Hegna	UNIVERSITY OF WISCONSIN, MADISON
Lawrence	H.	Heilbronn	UNIVERSITY OF TENNESSEE, KNOXVILLE
David		Helling	UNIVERSITY OF PITTSBURGH
Douglass	L	Henderson	UNIVERSITY OF WISCONSIN, MADISON
J. Stephen		Herring	IDAHO STATE UNIVERSITY
Noah		Hershkowitz	UNIVERSITY OF WISCONSIN, MADISON
Nolan	E.	Hertel	GEORGIA INSTITUTE OF TECHNOLOGY
Brent	J.	Heuser	UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
Takashi		Hibiki	PURDUE UNIVERSITY
Jack	F.	Higginbotham	OREGON STATE UNIVERSITY
Kathryn	A.	Higley	OREGON STATE UNIVERSITY
Brian		Hinderliter	VIRGINIA COMMONWEALTH UNIVERSITY
J.	Wesley	Hines	UNIVERSITY OF TENNESSEE, KNOXVILLE
David		Hintenlang	UNIVERSITY OF FLORIDA
Linn	W.	Hobbs	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
James	P.	Holloway	UNIVERSITY OF MICHIGAN
Peter		Hosemann	UNIVERSITY OF CALIFORNIA-BERKELEY
Steve		Howe	UNIVERSITY OF IDAHO
John	R	Howell	UNIVERSITY OF TEXAS, AUSTIN
Tom	C.-C.	Hu	GEORGIA INSTITUTE OF TECHNOLOGY
Melissa		Hunter	UNIVERSITY OF PITTSBURGH

Esam	MA	Hussein	UNIVERSITY OF NEW BRUNSWICK
Ian	H.	Hutchinson	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
George Imel	R	Imel	IDAHO STATE UNIVERSITY
Mamoru		Ishii	PURDUE UNIVERSITY
Kostadin		Ivanov	PENNSYLVANIA STATE UNIVERSITY
Richard	T	Jacobsen	IDAHO STATE UNIVERSITY
Alan	Pradip	Jasanoff	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Sheldon	M.	Jeter	GEORGIA INSTITUTE OF TECHNOLOGY
Tatjana		Jevremovic	UNIVERSITY OF UTAH
Wei		Ji	RENSELAER POLYTECHNIC INSTITUTE
Zhijie		Jiao	UNIVERSITY OF MICHIGAN
Barclay	G.	Jones	UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
Igor		Jovanovic	PENNSYLVANIA STATE UNIVERSITY
Brian	E.	Jurczyk	UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
Raymond	J.	Juzaitis	TEXAS A&M UNIVERSITY
Bernd		Kahn	GEORGIA INSTITUTE OF TECHNOLOGY
Terry		Kammash	UNIVERSITY OF MICHIGAN
Daniel	M.	Kammen	UNIVERSITY OF CALIFORNIA-BERKELEY
Djamel		KAOUMI	UNIVERSITY OF SOUTH CAROLINA
Aydin		Karahan	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Ratib		Karam	GEORGIA INSTITUTE OF TECHNOLOGY
William	E	Kastenber	UNIVERSITY OF CALIFORNIA-BERKELEY
Mujid	S.	Kazimi	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Kimberlee	J.	Kearfott	UNIVERSITY OF MICHIGAN
Jamil		Khan	UNIVERSITY OF SOUTH CAROLINA
Seungjin		Kim	PENNSYLVANIA STATE UNIVERSITY
Mark		Kimber	UNIVERSITY OF PITTSBURGH
Jeffrey	C	King	COLORADO SCHOOL OF MINES
Dale		Klein	UNIVERSITY OF TEXAS, AUSTIN
Andrew	C.	Klein	OREGON STATE UNIVERSITY
Travis	W	Knight	UNIVERSITY OF SOUTH CAROLINA
Glenn	F.	Knoll	UNIVERSITY OF MICHIGAN
Jean		Koclas	ÉCOLE POLYTECHNIQUE DE MONTRÉAL
Karl	M.	Krushelnick	UNIVERSITY OF MICHIGAN
Gerald	L	Kulcinski	UNIVERSITY OF WISCONSIN, MADISON
Arvind	S.	Kumar	UNIVERSITY OF MISSOURI- ROLLA (Missouri University of Science & Technology)
Jay	F.	Kunze	IDAHO STATE UNIVERSITY
Cable		Kurwitz	TEXAS A&M UNIVERSITY
Mark		Kushner	UNIVERSITY OF MICHIGAN
Richard	T	Lahey, Jr.	RENSELAER POLYTECHNIC INSTITUTE
Sheldon		Landsberger	UNIVERSITY OF TEXAS, AUSTIN

Richard	C.	Lanza	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Edward	W	Larsen	UNIVERSITY OF MICHIGAN
Harold		Larson	IDAHO STATE UNIVERSITY
Y.Y.		Lau	UNIVERSITY OF MICHIGAN
John	C.	Lee	UNIVERSITY OF MICHIGAN
Jung-Kun		Lee	UNIVERSITY OF PITTSBURGH
Hyoung Koo		Lee	UNIVERSITY OF MISSOURI- ROLLA (Missouri University of Science & Technology)
Richard	K.	Lester	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Ka-Ngo		Leung	UNIVERSITY OF CALIFORNIA-BERKELEY
Kenneth	D	Lewis	SOUTH CAROLINA STATE UNIVERSITY
Jie		Lian	RENSELAER POLYTECHNIC INSTITUTE
Haitao		Liao	UNIVERSITY OF TENNESSEE, KNOXVILLE
Richard	A.	Lillie	UNIVERSITY OF TENNESSEE, KNOXVILLE
michael	j	lineberry	IDAHO STATE UNIVERSITY
Li (Emily)		Liu	RENSELAER POLYTECHNIC INSTITUTE
Eric	P.	Loewen	UNIVERSITY OF MISSOURI- ROLLA (Missouri University of Science & Technology)
Valmore (Val)	J.	Loiselle	UNIVERSITY OF SOUTH CAROLINA
Worth		Longest	VIRGINIA COMMONWEALTH UNIVERSITY
Martin		Lopez-De-Bertodano	PURDUE UNIVERSITY
Sudarshan	K	Loyalka	UNIVERSITY OF MISSOURI, COLUMBIA
Albert	T.	Lucas	UNIVERSITY OF TENNESSEE, KNOXVILLE
D. Scott		Lucas	IDAHO STATE UNIVERSITY
JOHN	C	LUXAT	McMASTER UNIVERSITY
Steven	J.	Maheras	OHIO STATE UNIVERSITY
Andrea		Maioli	UNIVERSITY OF PITTSBURGH
Bimal	K	Malaviya	RENSELAER POLYTECHNIC INSTITUTE
G.	Ivan	Maldonado	UNIVERSITY OF TENNESSEE, KNOXVILLE
Nasser		Maleki	GEORGIA INSTITUTE OF TECHNOLOGY
Adam		Mallicoat	IDAHO STATE UNIVERSITY
Craig		Marianno	TEXAS A&M UNIVERSITY
Guy		Marleau	ÉCOLE POLYTECHNIQUE DE MONTRÉAL
William	H.	Marlow	TEXAS A&M UNIVERSITY
Charles	P.	Marsh	UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
William	R.	Martin	UNIVERSITY OF MICHIGAN
Jesse		McBurney-Rebol	UNIVERSITY OF IDAHO
Kathryn	A.	McCarthy	IDAHO STATE UNIVERSITY
Ryan		McClarren	TEXAS A&M UNIVERSITY
Sean	M.	McDeavitt	TEXAS A&M UNIVERSITY

David	L.	McDowell	GEORGIA INSTITUTE OF TECHNOLOGY
Donald		McEligot	UNIVERSITY OF IDAHO
Douglas	S	McGregor	KANSAS STATE UNIVERSITY
Milton		McLain	TEXAS A&M UNIVERSITY
James	T	McLeskey	VIRGINIA COMMONWEALTH UNIVERSITY
David	N	McNelis	NORTH CAROLINA STATE UNIVERSITY
Ling-Jian		Meng	UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
John	D	Metzger	UNIVERSITY OF PITTSBURGH
John	T.	Mihalcz	UNIVERSITY OF TENNESSEE, KNOXVILLE
George	H.	Miley	UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
Jack		Miller	UNIVERSITY OF TENNESSEE, KNOXVILLE
David	W.	Miller	UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
Don	W.	Miller	OHIO STATE UNIVERSITY
Franklin	K	Miller	UNIVERSITY OF WISCONSIN, MADISON
William	H	Miller	UNIVERSITY OF MISSOURI, COLUMBIA
Laurence	F.	Miller	UNIVERSITY OF TENNESSEE, KNOXVILLE
Gennady		Miloshevsky	PURDUE UNIVERSITY
Joseph	V.	Minervini	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Manu		Mital	VIRGINIA COMMONWEALTH UNIVERSITY
Jeffrey	H.	Morehouse	UNIVERSITY OF SOUTH CAROLINA
Jim	E.	Morel	TEXAS A&M UNIVERSITY
Dane	D	Morgan	UNIVERSITY OF WISCONSIN, MADISON
Edward	C	Morse	UNIVERSITY OF CALIFORNIA-BERKELEY
Tod		Moser	UNIVERSITY OF MISSOURI- ROLLA (Missouri University of Science & Technology)
Gregory	A	Moses	UNIVERSITY OF WISCONSIN, MADISON
Karla		Mossi	VIRGINIA COMMONWEALTH UNIVERSITY
Arthur	T.	Motta	PENNSYLVANIA STATE UNIVERSITY
Hanna		Moussa	UNIVERSITY OF TENNESSEE, KNOXVILLE
Gary	E.	Mueller	UNIVERSITY OF MISSOURI- ROLLA (Missouri University of Science & Technology)
Raymond	L.	Murray	NORTH CAROLINA STATE UNIVERSITY
Korukonda	L	Murty	NORTH CAROLINA STATE UNIVERSITY
Fred	R.	Mynatt	UNIVERSITY OF TENNESSEE, KNOXVILLE
Paul		Nelson	TEXAS A&M UNIVERSITY
Martin	E	Nelson	US NAVAL ACADEMY
Richard	F.	Nelson	UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
Martin	J.	Neumann	UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
Eric	B	Nornab	UNIVERSITY OF CALIFORNIA-BERKELEY
David	R	Novog	McMASTER UNIVERSITY
Kenneth	C	Okafor	SOUTH CAROLINA STATE UNIVERSITY
Donald	R	Olander	UNIVERSITY OF CALIFORNIA-BERKELEY

David	Leroy	Olson	COLORADO SCHOOL OF MINES
Natela		Ostrovskaya	TEXAS A&M UNIVERSITY
Abderrafi	M	Ougouag	IDAHO STATE UNIVERSITY
Todd	S.	Palmer	OREGON STATE UNIVERSITY
Ronald	R.	Parker	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Alena		Paulenova	OREGON STATE UNIVERSITY
Imre		Pazsit	UNIVERSITY OF MICHIGAN
Kenneth	L.	Peddicord	TEXAS A&M UNIVERSITY
Per	F	Peterson	UNIVERSITY OF CALIFORNIA-BERKELEY
Bojan		Petrovic	GEORGIA INSTITUTE OF TECHNOLOGY
Harry	J.	Pettengill	UNIVERSITY OF TENNESSEE, KNOXVILLE
Ronald	E.	Pevey	UNIVERSITY OF TENNESSEE, KNOXVILLE
John	M	Pfotenhauer	UNIVERSITY OF WISCONSIN, MADISON
Supathorn		Phongikaroon	UNIVERSITY OF IDAHO
Ramana		Pidaparti	VIRGINIA COMMONWEALTH UNIVERSITY
Michael	Z	Podowski	RENSSELAER POLYTECHNIC INSTITUTE
Elmira		Popova	UNIVERSITY OF TEXAS, AUSTIN
John	W.	Poston	TEXAS A&M UNIVERSITY
Sara		Pozzi	UNIVERSITY OF MICHIGAN
Mark	A	Prelas	UNIVERSITY OF MISSOURI, COLUMBIA
Anil	K.	Prinja	UNIVERSITY OF NEW MEXICO
Stanley	G	Prussin	UNIVERSITY OF CALIFORNIA-BERKELEY
Mitch		Pryor	UNIVERSITY OF TEXAS, AUSTIN
Magdi		Ragheb	UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
Jean		Ragusa	TEXAS A&M UNIVERSITY
Farzad		Rahnema	GEORGIA INSTITUTE OF TECHNOLOGY
Dan		Reece	TEXAS A&M UNIVERSITY
Steven	R	Reese	OREGON STATE UNIVERSITY
Shripad		Revankar	PURDUE UNIVERSITY
Jose	N.	Reyes, Jr.	OREGON STATE UNIVERSITY
Roger	S	Reynolds	WASHINGTON STATE UNIVERSITY
Elwyn		Roberts	UNIVERSITY OF SOUTH CAROLINA
Norman	F	Roderick	UNIVERSITY OF NEW MEXICO
William	R.	Roy	UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
Robert		Roy	ÉCOLE POLYTECHNIQUE DE MONTRÉAL
Arthur	E	Ruggles	UNIVERSITY OF TENNESSEE, KNOXVILLE
David	N.	Ruzic	UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
Donald		Scheef	UNIVERSITY OF PITTSBURGH
Barry		Scheetz	PENNSYLVANIA STATE UNIVERSITY
Erich		Schneider	UNIVERSITY OF TEXAS, AUSTIN
Jen		Schneider	COLORADO SCHOOL OF MINES
DuWayne	L.	Schubring	UNIVERSITY OF FLORIDA

Volkan		Seker	UNIVERSITY OF MICHIGAN
Robert		Sexton	VIRGINIA COMMONWEALTH UNIVERSITY
Steven	C	Shannon	NORTH CAROLINA STATE UNIVERSITY
Lin		Shao	TEXAS A&M UNIVERSITY
Zeev		Shayer	COLORADO SCHOOL OF MINES
John	K.	Shultis	KANSAS STATE UNIVERSITY
Richard		Siergiej	UNIVERSITY OF PITTSBURGH
Clifford	E.	Singer	UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
Valeryi		Sizyuk	PURDUE UNIVERSITY
Glenn	E.	Sjoden	UNIVERSITY OF FLORIDA
Carol	S	Smidts	OHIO STATE UNIVERSITY
Leslie	M	Smith	UNIVERSITY OF WISCONSIN, MADISON
Avneet		Sood	NORTH CAROLINA STATE UNIVERSITY
Carl	R	Sovinec	UNIVERSITY OF WISCONSIN, MADISON
John		Speich	VIRGINIA COMMONWEALTH UNIVERSITY
Sastry	R	Sreepada	RENSELAER POLYTECHNIC INSTITUTE
Weston	M.	Stacey, Jr.	GEORGIA INSTITUTE OF TECHNOLOGY
Don		Steiner	RENSELAER POLYTECHNIC INSTITUTE
Andrew		Stephan	UNIVERSITY OF TENNESSEE, KNOXVILLE
Robert	A.	Stubbers	UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
James	F.	Stubbins	UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
William	A	Summers	UNIVERSITY OF SOUTH CAROLINA
Xiaodong		Sun	OHIO STATE UNIVERSITY
Vishnu		Sundaresan	VIRGINIA COMMONWEALTH UNIVERSITY
Izabela		Szlufarska	AIR FORCE INSTITUTE OF TECHNOLOGY
Hooman		Tafreshi	VIRGINIA COMMONWEALTH UNIVERSITY
Rusi		Taleyarkhan	PURDUE UNIVERSITY
Gary		Tepper	VIRGINIA COMMONWEALTH UNIVERSITY
Alberto		Teyssedou	ÉCOLE POLYTECHNIQUE DE MONTRÉAL
Bruce	R	Thomadsen	UNIVERSITY OF WISCONSIN, MADISON
Alexander	G.R.	Thomas	UNIVERSITY OF MICHIGAN
Amy		Throckmorton	VIRGINIA COMMONWEALTH UNIVERSITY
Neil	E.	Todreas	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Akira		Tokuhiro	UNIVERSITY OF IDAHO
Robert	V	Tompson	UNIVERSITY OF MISSOURI, COLUMBIA
Lawrence	W	Townsend	UNIVERSITY OF TENNESSEE, KNOXVILLE
Mario	F	Trujillo	UNIVERSITY OF WISCONSIN, MADISON
Timothy	H	Trumbull	RENSELAER POLYTECHNIC INSTITUTE
Lefteri		Tsoukalas	PURDUE UNIVERSITY
Pavel	V.	Tsvetkov	TEXAS A&M UNIVERSITY
Galina		Tsvetkova	TEXAS A&M UNIVERSITY
Paul	J	Turinsky	NORTH CAROLINA STATE UNIVERSITY

Rizwan		Uddin	UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN
Kenan		Unlu	PENNSYLVANIA STATE UNIVERSITY
Belle	R	Upadhyaya	UNIVERSITY OF TENNESSEE, KNOXVILLE
Shoaib		Usman	UNIVERSITY OF MISSOURI- ROLLA (Missouri University of Science & Technology)
Vivek		Utgikar	UNIVERSITY OF IDAHO
Tristan		Utschig	GEORGIA INSTITUTE OF TECHNOLOGY
Timothy		Valentine	UNIVERSITY OF TENNESSEE, KNOXVILLE
Ray		Vanderby	UNIVERSITY OF WISCONSIN, MADISON
Ray		Vanderby, Jr.	UNIVERSITY OF WISCONSIN, MADISON
John	P	Verboncoeur	UNIVERSITY OF CALIFORNIA-BERKELEY
Kai		Vetter	UNIVERSITY OF CALIFORNIA-BERKELEY
Karen		Vierow	TEXAS A&M UNIVERSITY
Dieter		Vincent	UNIVERSITY OF MICHIGAN
Francesco		Volpe	UNIVERSITY OF WISCONSIN, MADISON
Jasmina	L	Vujic	UNIVERSITY OF CALIFORNIA-BERKELEY
Fabian		Waleffe	UNIVERSITY OF WISCONSIN, MADISON
Lumin		Wang	UNIVERSITY OF MICHIGAN
C-K Chris		Wang	GEORGIA INSTITUTE OF TECHNOLOGY
Gary	S.	Was	UNIVERSITY OF MICHIGAN
David	K.	Wehe	UNIVERSITY OF MICHIGAN
Bernard	W.	Wehring	NORTH CAROLINA STATE UNIVERSITY
Timothy		Wei	RENSELAER POLYTECHNIC INSTITUTE
Ruth		Weiner	UNIVERSITY OF MICHIGAN
William	J.	Wepfer	GEORGIA INSTITUTE OF TECHNOLOGY
Anne	E.	White	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Dennis	G.	Whyte	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Gerald		Wicks	NORTH CAROLINA STATE UNIVERSITY
Jorg		Wiezorek	UNIVERSITY OF PITTSBURGH
Brian	G.	Williams	IDAHO STATE UNIVERSITY
Paul	P. H.	Wilson	UNIVERSITY OF WISCONSIN, MADISON
Brian	D.	Wirth	UNIVERSITY OF TENNESSEE, KNOXVILLE
Robert	J	Witt	UNIVERSITY OF WISCONSIN, MADISON
Brian	G	Woods	OREGON STATE UNIVERSITY
Qiao		Wu	OREGON STATE UNIVERSITY
George		Xu	RENSELAER POLYTECHNIC INSTITUTE
Haori		Yang	UNIVERSITY OF UTAH
Yong		Yang	UNIVERSITY OF FLORIDA
Bilge		Yildiz	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Man-Sung		Yim	NORTH CAROLINA STATE UNIVERSITY
Sidney		Yip	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Nazia		Zakir	GEORGIA INSTITUTE OF TECHNOLOGY

Feng		Zhang	UNIVERSITY OF MICHIGAN
Dinkang		Zhang	GEORGIA INSTITUTE OF TECHNOLOGY
Wei		Zhou	RENSSELAER POLYTECHNIC INSTITUTE
Lei		Zhu	GEORGIA INSTITUTE OF TECHNOLOGY
Ting		Zhu	GEORGIA INSTITUTE OF TECHNOLOGY