

---

**CURRICULUM VITAE  
Of  
MARK J. RUDIN, PH.D.**

---

**OFFICE**

**1910 University Drive  
Boise, ID 83725-1135  
Phone: (208) 426-4433  
Fax: (208) 426-1048  
markrudin@boisestate.edu**

**HOME**

**4275 N. 36<sup>th</sup> Street  
Boise, ID 83703  
Phone: (208) 345-3911**

**EDUCATIONAL EXPERIENCE**

**1985 to 1989 Doctor of Philosophy, Medicinal Chemistry  
Concentration in Health Physics  
Purdue University, West Lafayette, Indiana**

**1983 to 1985 Masters of Science, Health Physics  
Purdue University, West Lafayette, Indiana**

**1980 to 1983 Bachelor of General Health Science Degree  
Purdue University, West Lafayette, Indiana**

**EMPLOYMENT EXPERIENCE**

**Jan 2007 to Present Vice President for Research, Division of Research, Boise State University.**

**Noteworthy Accomplishments**

- Providing the necessary support services to increase extramural funding at the university. Total sponsored program funding increased by 12.6% and total research funding increased by 10% during FY 07. Major Federal funding sources include the U.S. Department of Energy, U.S. Department of Education, U.S. Department of Defense, U.S. Department of the Interior, National Science Foundation (NSF), and National Institutes of Health (NIH).
- Serving as a key member of the President's leadership team in developing long strategies for the university as it aspires to become a metropolitan research university of distinction.

- Secured necessary state resources to establish an Office of Research Compliance which is responsible for administering a number of compliance areas, including the protection of human subjects, animal safety, biosafety, and conflict of interest. Serving as Institutional Official for these compliance areas.
- Serving as the university's point-of-contact for state and local government agencies (e.g., Department of Commerce, etc.), and companies from the private sector interested in potential collaborative research opportunities with Boise State faculty and staff. Initiated a series of roundtable discussions with CEOs of companies in the high-tech Treasure Valley corridor to formalize relationships with the local and regional business community and promote the role of Boise State in the economic development of Idaho.
- Established processes to ensure intellectual property developed by university faculty and staff is protected and is properly assessed for commercialization potential. Currently, in the process of establishing an Office of Technology Transfer to promote and implement these activities.
- Established a Research Service Team in the College of Engineering comprised of representatives from the Office of Sponsored Programs, Sponsored Project Accounting, and Purchasing. Members of this team provide cradle-to-grave grant-related services and guidance to departments and interdisciplinary research centers and institutes in the college. A second Research Service Team will be established in the College of Arts and Sciences in Spring 2008.
- Working with Deans and other college administrators to make strategic investments in research and creative activities across all departments and disciplines to ensure the university collectively moves forward in becoming a metropolitan research university of distinction.
- Serving as the university's point-of-contact for government relation activities. Working directly with members of the Idaho delegation and their staff to secure Federal appropriated monies for the university. Federal appropriations received by the university more than doubled from FY07 to FY08. Initiated discussions with representatives of key Federal agencies to promote Boise State research activities and establish funding opportunities.
- Established a Research Council comprised of representatives from

each of the colleges on campus to provide overall review and advice on Division activities.

**July 2003 to Dec 2006** **Interim Vice President for Research and Graduate Dean**, Division of Research and Graduate Studies, University of Nevada, Las Vegas; July 2006 to December 2006.

**Senior Associate Vice President for Research Services**, Division of Research and Graduate Studies, University of Nevada, Las Vegas; November 2005 to June 2006.

**Associate Vice President for Research Services**, Office of Research and Graduate Studies, University of Nevada, Las Vegas; July 2003 to October 2005.

### **Noteworthy Accomplishments**

#### **Since 2003:**

- Tasked with providing the necessary resources and support services to increase extramural funding at the university. Total sponsored program funding increased from \$59M to \$93M (61% increase), and total research funding increased from \$31M to \$69M (123% increase) between FYs 2003 and 2006. Major federal funding sources include the U.S. Department of Energy, U.S. Department of Education, U.S. Department of Defense, U.S. Department of the Interior, National Science Foundation, and National Institutes of Health.
- Since 2003, served as the University's point-of-contact for state and local government agencies, and companies from the private sector inquiring about potential collaborative research opportunities with UNLV faculty and staff. This effort netted the University over \$5.9M in state funding and over \$1.6M in private sector funds in FY 2005.
- Established Research Service Teams in the Colleges of Sciences and Engineering comprised of representatives from the Office of Sponsored Programs, Grants and Contracts Financial Services, Purchasing, Disbursements, and Human Resources to provide cradle-to-grave grant-related services to faculty and students in these academic units.
- Administered over \$2.5M of internal research grant awards (seed money) to faculty and students at the University through the following programs: New Investigator Awards (NIA); Stimulation, Implementation, Transition, and Enhancement (SITE) Awards;

Undergraduate Research Awards (URA); and, the Applied Research Initiative (ARI).

- Provided management oversight of the Office for the Protection of Research Subjects (OPRS), which is responsible for ensuring the protection of human subjects involved in University research activities. Served as Institutional Official of the office since July 2003. The Office reviewed and processed over 1,300 research protocols in the social behavioral and biomedical areas during Calendar Year 2005.
- Provided management oversight of the Laboratory Animal Care Services Office. Served as Institutional Official of the office since June 2006.
- Since 2003, participated in the development of a new research communication plan, which included the creation of an Office of Research Communication that continues to provide a regular profile of the nature and scope of faculty and student scholarship and creative activities to the University's constituencies as well as capturing the entrepreneurial spirit of UNLV in relating research to economic development. Venues for such communication have included publication of the new UNLV Research Magazine, UNLV Fusion, revised and updated Website information, frequent news releases, media interviews, and Annual Research and Economic Development Reports.

**Since 2005:**

- Coordinated the combination of pre- and post-award grant offices to provide contemporary and timely research administration services to the campus community. This effort included the hiring of a new Executive Director of the Office of Sponsored Programs to manage the activities of the newly combined office.
- Provided leadership in further enhancing the activities of the Office of Technology Transfer resulting in improved policies and procedures, enhanced intellectual property management and patent development, and increased faculty participation.
- Established an Office of Research Compliance responsible for ensuring the University is in compliance with all applicable state and federal regulations, and risk assessment activities. A new Institutional Biosafety Committee was established under this office in 2005.

- Established a Research Council comprised of representatives from each of the colleges on campus to provide overall review and advice on Division activities.
- Provided oversight and programming of a new \$100M Science and Engineering Building expressly dedicated to research and economic development (scheduled for Spring 2008 opening).
- Promoted and supervised the development of the UNLV Research Foundation, a 501 (c) 3 organization formed to support research and economic development initiatives for UNLV currently in the areas of alternative energy sources, hydrogen fuel, materials sciences, environmental sciences, telecommunications, and public health sciences; development of the 115-acre Harry Reid Science and Technology Park; and, a variety of research/business development initiatives on the Shadow Lane Biomedical Sciences Campus.
- Provided management oversight of the Council of University Centers, Institutes, Museums and Laboratories. This group approves and provides periodic reviews of autonomous research entities on campus.
- Led discussions on developing new campus-wide policies on overload compensation and faculty buyout that are consistent with Office of Management and Budget Circular A-21 – Principals for Determining Costs Applicable to Grants, Contracts, and Other Agreements with Educational Institutions.

**Aug. 1993 to June 2003** **Department Chair**, Department of Health Physics, College of Health Sciences, University of Nevada, Las Vegas.

The department houses a doctorate degree in radiochemistry (jointly administered with the Department of Chemistry), a master's degree program in health physics, baccalaureate degree programs in health physics, nuclear medicine, and comprehensive medical imaging, and a certificate program in radiography.

#### **Noteworthy Accomplishments**

- Utilized support from community-based advisory boards to completely revise the B.S. in Health Physics Program in 1993 and B.S. in Nuclear Medicine Program in 1996, and to establish B.S. in Comprehensive Medical Imaging and M.S. in Health Physics programs in 1996.

- Coordinated the efforts of faculty from the Departments of Health Physics and Chemistry, staff from the Harry Reid Center for Environmental Studies, and the newly established national radiochemistry advisory board to develop the recently approved PhD in Radiochemistry Program.
- Provided oversight on successful health physics (M.S.) and nuclear medicine accreditation visits within the department.
- Taught graduate and undergraduate courses in the areas of physics of ionizing radiation, radiation detection, and radiation biology.
- Served as a committee member on over 60 dissertation, thesis, professional paper/project student committees.
- Provided direct laboratory research supervision to 6 undergraduate students.
- Managed a radioanalytical service laboratory capable of quantifying the levels of radionuclides in a variety of environmental and biological matrices. The laboratory was set up as a cost center which allowed the department to charge fees for these services.

**June 1992 to June 1993** **Technical/Administrative Assistant**, U.S. Department of Energy-Headquarters (DOE-HQ), Office of Environmental Restoration and Waste Management (EM), Office of Research and Development (EM-54).

Provided technical and administrative assistance to the Director of EM's Office of Research and Development. Responsibilities included office management and evaluation of technologies to characterize, treat, and dispose of Office of Waste Management (EM-30) mixed waste streams.

**Aug. 1989 to Aug. 1993** **Senior Program Specialist/Project Engineer**, EG&G Idaho, Inc., Buried Waste Integrated Demonstration (BWID) Systems Analysis Project, Idaho National Engineering Laboratory (INEL), Idaho Falls, Idaho.

Identified and evaluated systems for the cradle-to-grave remediation of Transuranic-Contaminated Waste Pits and Trenches located at the INEL. The evaluation of remediation systems was based upon the Comprehensive Environmental Response, Compensation and Liability Act of 1980 balancing criteria. Technology gaps identified by the project directed DOE resources for research and development and demonstration of technologies for remediating DOE buried wastes.

**Aug. 1990** Instructor, Department of Health Physics, Idaho State University;  
**to May 1992** Pocatello, Idaho.

Taught and developed the curriculum for two courses - environmental health physics and radiation instrumentation. Guest lecturer in Fall/Spring 1992.

### **REFEREED PUBLICATIONS**

Rudin, M.J., O'Brien, M.C., Richardson, J.G., Morrison, J.L. Morrison, and Morneau, R.A. A performance-based methodology for rating remediation systems. *Journal of Nuclear Materials Management*. 12(1): 31-35. 1993.

Rudin, M.J. and O'Brien, M.C. Technology logic diagrams. *Journal of Nuclear Materials Management*. 12(2): 26-30. 1995.

Rudin, M.J. and Koch, P. Development of a cost-effective collimator. *Radiation Protection Management*. 12(4): 45-49. 1995.

Rudin, M.J. (1996) Leaching of selenium from cement-based matrices. *Waste Management*. 16(4): 305-311. 1996.

Rudin, M.J., Johnson, W.H., and Meyers, A.M. Radionuclide content of Las Vegas Wash sediments. *Chemosphere*. 35(12): 3039-3046. 1997.

Pitanzo, B.J., Amy, P.S., and Rudin, M.J. Resuscitation of microbes after gamma irradiation. *Radiation Research*. 152:64-70. 1999.

Pitanzo, B.J., Amy, P.S., and Rudin, M.J. Effect of gamma radiation on native endolithic microorganisms from a radioactive waste disposal site. *Radiation Research*. 152:71-75. 1999.

Rudin, M.J. and Johnson, W.H. The influence of flood source placement on radiation exposure during quality assurance testing. *Journal of Nuclear Medicine Technology*. 28:88-93. 2000.

Johnson, E.A., Rudin, M.J., Steinberg, S.M., and Johnson, W.H. The sorption of selenite on various cement formulations. *Waste Management*. 20(7):509-516. 2000.

Johnson, W.H. and Rudin, M.J. Distribution of radionuclides in Gypsum Wash sediments. *Toxicological and Environmental Chemistry*. 79:73-80. 2001.

Rudin, M.J., Richardson, W.M., Dumont, P.G., and Johnson, W.H. In situ measurements of transuranics using a calcium fluoride scintillation detection system. *Journal of Radioanalytical and Nuclear Chemistry*. 248(2):445-448. 2001.

Turner, M., Rudin, M., Cizdziel, and Hodge, V. Excess plutonium in soil near the Nevada

Test Site, U.S.A. *Environmental Pollution*. 125:193-203. 2002.

Twichell, D., Cross, V.A., Hanson, A., Buck, B., Zybala, J., and Rudin, M. Seismic architecture and lithofacies of turbidites in Lake Mead. *Journal of Sedimentary Research*. 75(1):134-148. 2005.

Rudin, M., Johnson, W., and Steinberg, S. Sorption/desorption of cesium in sulfate-resistant Portland cements. *Journal of Radioanalytical and Nuclear Chemistry*. 264(2):501-504. 2005.

Arndt, A., Shanahan, J., Gold, C., Brey, R., Gesell, T., Patton, P., Rudin, M., Eckerman, K., Rusetski, V., and Pagava, S. Quality assurance methods and procedures used to verify consistency in calculating dose coefficients. *Health Physics*. 90(1): 74-80. 2005.

Shanahan, J., Eckerman, K., Arndt, A., Gold, C., Patton, P., Rudin, M., Brey, R., Gesell, T., Rusetski, V., and Pagava, S. Calculation of dose coefficients for radionuclides produced in a spallation neutron source utilizing NUBASE and the evaluated nuclear structure data files databases. *Health Physics*. 90(1): 56-65. 2005.

Steinberg, S., Schmett, G., Kimble, Emerson, D., Turner, M., and Rudin, M. Immobilization of fission iodine by reaction with insoluble natural organic matter. *Journal of Radioanalytical and Nuclear Chemistry*. 277(1): 175-183. 2008.

Steinberg, S., Kimble, G., Schmett, G., Emerson, D., Turner, M., and Rudin, M. Abiotic reaction of iodate with sphagnum peat and other natural organic matter. *Journal of Radioanalytical and Nuclear Chemistry*. 277(1): 186-191. 2008.

Steinberg, S., Nemr, L., and Rudin, M. Characterization of the lignin signature in Lake Mead, NV, sediment: comparison of on-line flash chemopyrolysis (600°C) and off-line chemolysis (250°C). *Environ Geochem Health*. 2008.

## **TECHNICAL REPORTS**

Twichell, D.C., Cross, V.A., Rudin, M.J., and Parolski, K.F. Surficial geology and distribution of post-impoundment sediment of the western part of Lake Mead based on a sidescan sonar and high-resolution seismic-reflection survey. U.S. Geological Survey Open File Report 99-581. December 1999.

Twichell, D.C., Cross, V.A., Rudin, M.J., Parolski, K.F., and Rendigs, R.R. Surficial geology and distribution of postimpoundment sediment in Las Vegas Bay, Lake Mead. U.S. Geological Survey Open File Report 01-70. March 2001.

Foster, D.C., Capone, M.K., Parolski, K.F., Twichell, D.C., and Rudin, M.J. Surficial geology and analysis of post-impoundment sediment of Lake Mojave; interpretation of sidescan sonar and seismic-reflection data. U.S. Geological Survey Open File Report 2004-1256. September 2004.

## **GRANT FUNDING RECEIVED**

Rudin, M.J. Radiological monitoring, Science Applications International Corporation (SAIC), \$10,000, 1993.

Rudin, M.J. Development of a master's program in health physics, U.S. Department of Energy, Yucca Mountain Site Characterization Project Office, \$37,500, 1994.

Rudin, M.J. Sorption of selenium on cement, University Research, Grants and Fellowship Committee, \$2,582, 1994.

Rudin, M.J. Soil contamination studies, U.S. Department of Energy/Nevada Office, \$100,000, 1994.

Rudin, M.J. Treatability Testing Research, Reynolds Electrical and Engineering Company, \$25,473, 1995.

Johnson, W.H. and Rudin, M.J., Risk assessment of disposal and recycling options of NORM, Stan A. Huber Consultants, \$1,814, 1995.

Johnson, W.H. and Rudin, M.J., Environmental radiation monitoring experiments for radiation detection laboratories, National Science Foundation (NSF), \$31,265 (with \$31,265 match from University), 1996.

Rudin, M.J. Reconstructing historical concentrations and temporal trends of hydrophobic synthetic organic compounds in Lake Mead, Nevada, Applied Research Initiative (ARI) Grant, \$25,000. 1997.

Rudin, M.J. Reconstructing historical concentrations and temporal trends of hydrophobic synthetic organic compounds in Lake Mead, Nevada, U.S. Geological Survey, \$75,000 (match for ARI funds). 1997.

Rudin, M.J. Reconstructing historical concentrations and temporal trends of hydrophobic synthetic organic compounds in Lake Mead, Nevada, Bureau of Reclamation, \$25,000, 1997.

Rudin, M.J. Characterization of Lake Mead sediments, University Planning Initiative Award, \$48,499, 1997.

Rudin, M.J. Cs/Pu ratios in Lake Mead sediment strata, Applied Research Initiative (ARI) Grant, \$13,284. 1998.

Rudin, M.J. Real-time monitoring for plutonium in boreholes at the NTS, U.S. Department of Energy/Nevada Office, \$44,776. 1998.

Rudin, M.J. Reconstructing historical concentrations and temporal trends of hydrophobic synthetic organic compounds in Lake Mead, Nevada, National Park Service, \$25,000, 1998.

Rudin, M.J. Mapping of Lake Mead sediments in Las Vegas Bay and Boulder Basin, Southern Nevada Water Authority, \$20,000. 1998.

Rudin, M.J. Geophysical surveys and ground truth studies in Las Vegas Bay, \$55,607, U.S. Bureau of Reclamation, 2000.

Rudin, M.J. Development of a research vessel, UNLV SITE Grant, \$2,500, 2000.

Patton, P.W. and Rudin, M.J. Development of dose conversion coefficients for radionuclides produced in spallation neutron sources, UNLV/AAA Program, \$160,000, 2001.

Rudin, M.J. Monitor and assess water quality; characterize existing conditions and identify numerical criteria to protect existing water quality in Lake Mead National Recreation Area, National Park Service, \$26,450, 2001.

Rudin, M.J., Bowles, C., Kruskall, L., LaPorta, L., and Mercer, J. Acquisition of a DEXA scanner, UNLV Planning Initiative Award, \$30,000, 2001.

Rudin, M.J. Geophysical mapping and sediment coring in Lake Mead, USA, U.S. Geological Survey, \$92,000, 2001.

Rudin, M.J., Buck, B., Hanson, A., and Steinberg, S. Geophysical mapping and sediment coring in Lake Mead, USA, U.S. Geological Survey, \$476,100. 2002.

Johnson, W.H., Buck, B., and Rudin, M.J. Migration properties of depleted uranium from naval ordnance in arid environments, Argonne National Laboratory, \$99,891. 2002.

Patton, P.W. and Rudin, M.J. Development of dose conversion coefficients for radionuclides produced in spallation neutron sources, UNLV/TRP, \$160,000, 2003.

### **PROFESSIONAL PAPERS PRESENTED**

Rudin, M.J. Graduate Studies in Health Physics at UNLV, 28th Midyear Topical Meeting of the Health Physics Society, Charleston, SC. January 29 - February 1, 1995.

Rudin, M.J. Undergraduate Studies in Health Physics at UNLV, 28th Midyear Topical Meeting of the Health Physics Society, Charleston, SC. January 29 - February 1, 1995.

Outlaw, P.D. and Rudin, M.J. University/Industry Partnerships in Health Physics Education, 28th Midyear Topical Meeting of the Health Physics Society, Charleston, SC. January 29 - February 1, 1995.

Rudin, M.J., Pensinger, S., and Shenk, K.J. Radiological Monitoring at UNLV. 40th

Annual Meeting of the Health Physics Society in Boston, MA. July 23-27, 1995.

Hatcher, L.W. and Rudin, M.J. Gamma Efficiency Approximation for Non-Standard Geometries. 40th Annual Meeting of the Health Physics Society in Boston, MA. July 23-27, 1995.

Pitanzo, B.J., Amy, P.S., and Rudin, M.J. Effect of Gamma Radiation on Indigenous Microbes at Yucca Mountain. 96th General Meeting of the American Society for Microbiology in New Orleans, LA. May 19-23, 1996.

Rudin, M.J., Johnson, W.H., and Meyers, A.M. Radionuclide Content of the Las Vegas Wash. 41st Annual Meeting of the Health Physics Society in Seattle, WA. July 21-25, 1996.

Crumbly, I.J., Johnson, W.H., and Rudin, M.J. UNLV/FVSC 3+2 Dual Degree Program in Health Physics. 41st Annual Meeting of the Health Physics Society in Seattle, WA. July 21-25, 1996.

Rudin, M.J., Johnson, W.H., and Krauss, M.J. Leaching of <sup>75</sup>Selenium from Cement-Based Matrices. 42nd Annual Meeting of the Health Physics Society, San Antonio, TX. June 29-July 3, 1997.

Short, E.A., Rudin, M.J., and Johnson, W.H. Sorption of <sup>75</sup>Selenium by Cement-Based Matrices. 42nd Annual Meeting of the Health Physics Society, San Antonio, TX. June 29-July 3, 1997.

Johnson, W.H., Marsicek, J.V., and Rudin, M.J. Preliminary Risk Assessment for Recycling NORM-Contaminated Concrete and Steel. 42nd Annual Meeting of the Health Physics Society, San Antonio, TX. June 29-July 3, 1997.

Seminoff, M.M., Johnson, W.H., and Rudin, M.J. Radionuclide Content of Upper Gypsum Wash Sediments. 42nd Annual Meeting of the Health Physics Society, San Antonio, TX. June 29-July 3, 1997.

Morris, P.S., Johnson, W.H., and Rudin, M.J. The Influence of Particle Size on Radionuclide Transport in Desert Washes During Flash Floods. 42nd Annual Meeting of the Health Physics Society, San Antonio, TX. June 29-July 3, 1997.

Hogge, D.R., Koch, P., and Rudin, M.J. Use of a Gridded Ionization Chamber for Rapid Quantification of Arid Soil Samples. 42nd Annual Meeting of the Health Physics Society, San Antonio, TX. June 29-July 3, 1997.

Davis, M., Johnson, W.H., and Rudin, M.J. Redistribution of Radioactive Fallout in Southeastern Nevada Washes. American Association of Physics Teachers' 1998 Winter Meeting, New Orleans, LA. January 3-8, 1998.

Johnson, W.H., Davis, M.M., and Rudin, M.J. A Comparison of Fission Product and Plutonium Activity in Desert Washes. 43rd Annual Meeting of the Health Physics Society, Minneapolis, MN. July 12-16, 1998.

Goldston, S.J., Johnson, W.H., and Rudin, M.J. Ratio of  $^{137}\text{Cs}$  to  $^{239,240}\text{Pu}$  in Reservoir Sediments. 43rd Annual Meeting of the Health Physics Society, Minneapolis, MN. July 12-16, 1998.

Smith, S.A., Johnson, W.H., and Rudin, M.J. Dating Reservoir Sediments Using  $^{210}\text{Pb}$  and  $^{137}\text{Cs}$ . 43rd Annual Meeting of the Health Physics Society, Minneapolis, MN. July 12-16, 1998.

Johnson, W.H. and Rudin, M.J. Using Fallout and NORM to Teach Undergraduate Research. American Association of Physics Teachers 1999 Winter Meeting. Abstract in *Announcer* 28:88. 1998.

Georgeson, D.L., Brey, R.R., Gesell, T.F., Spall, R.D., and Rudin, M.J. Comparison of a Mathematical Specific Absorbed fraction Model for a Pregnant Woman at Three-Months Gestation With Experimental Results. 44th Annual Meeting of the Health Physics Society, Philadelphia, PA. June 27 - July 1, 1999.

Rudin, M.J., Richardson, W.M., Dumont, P.G., and Johnson, W.H. In situ measurement of transuranics using a calcium fluoride scintillation detection system. Fifth International Conference on Methods and Applications of Radioanalytical Chemistry - MARC V, Kailua-Kona, HI. April 9-14, 2000.

Goodner, C.H., Meacham, S., and Rudin, M.J. Case study: influence of diet on physiological symptoms associated with connective tissue disorders. American College of Nutrition, November, 2000.

Rudin, M.J., Johnson, W.H., Steinberg, S.; Turner, R.; Hodge, V., and Cizdziel, J. Sorption/desorption kinetics of cesium in type V Portland cement. Presented on the 47th Annual Bioassay, Analytical and Environmental Radiochemistry Conference, Las Vegas, NV November 4-8, 2001.

Shanahan J., Song, Y., Patton, P., and Rudin, M.J. Development of dose conversion coefficients for radionuclides produced in spallation neutron sources. Presented on the 47th Annual Bioassay, Analytical and Environmental Radiochemistry Conference, Las Vegas, NV November 4-8, 2001.

Shanahan, J., Song, Y., Patton, P., and Rudin, M. Development of Dose Conversion Coefficients for Radionuclides Produced in Spallation Neutron Sources, American Nuclear Society Winter Meeting, Student Mini-Conference, Reno, NV November 10-12, 2001.

Turner, R., Rudin, M., and Johnson, W., Sorption/desorption kinetics of cesium in type V Portland cement. Presented at the 47th Annual Meeting of the Health Physics Society, Tampa, Florida, June 16-20, 2002.

Shanahan J., Song, Y., Patton, P., and Rudin, M.J. Development of dose conversion coefficients for radionuclides produced in spallation neutron sources. Presented at the 47th Annual Meeting of the Health Physics Society, Tampa, Florida, June 16-20, 2002.

Twichell, D., Cross, V., Rudin, M. Mapping turbidites in Lake Mead from source to sink. AAPG Annual Meeting, Houston, Texas, March 10-13, 2002.

Zybala, J., Twichell, D., Buck, B., Howley, R., Hickson, T., Hanson, A., Rudin, M., and Steinberg, S. Sediment coring in Lake Mead reservoir, NV and AZ: implications for deep marine sandstone distributions. AAPG Annual Meeting in Salt Lake City, Utah, in 2003.

Twichell, D., Cross, V., Buck, B., Hanson, A., Hickson, T., Rudin, M., and Zybala, J. Seismic architecture of turbidites in Lake Mead. AAPG Annual Meeting, Salt Lake City, Utah, in 2003.

Rudin, M., Johnson, J., and Steinberg, S. Sorption/desorption of cesium in sulfate-resistant Portland cements. MARC VI Conference, Kailua-Kona, Hawaii, April 2003.

Steinberg, S., Rudin, M., Buck, B., Hanson, A., Hodge, V., Howley, R., Twichell, D., and Hickson, T. Investigation of organic matter in Lake Mead sediments using chemopyrolysis GCMS. 13<sup>th</sup> Annual West Coast Conference on Contaminated Soils, Sediments and Water, March 17-20, 2003, San Diego, CA.

Johnson, W., Brogonia, H., Buck, B., Brock, A., and Rudin, M. Geochemical and physical controls on anthropogenic uranium migration in arid soils. 13<sup>th</sup> Annual West Coast Conference on Contaminated Soils, Sediments and Water, March 17-20, 2003, San Diego, CA.

Rudin, M. The health physics ABET accreditation experience. Presented at the 48th Annual Meeting of the Health Physics Society, San Diego, CA, July 20-24, 2003.

Shanahan, J., Arndt, A., Campbell, C., Brey, R., and Rudin, M. Calculation of dose coefficients for radionuclides produced in spallation neutron sources. 48th Annual Meeting of the Health Physics Society, San Diego, CA, July 20-24, 2003.

Twichell, D., Hanson, A., Cross, V.A., and Rudin, M. Sediment accumulations on the bottom of Lake Mead: a 70-year record of depositional processes. Annual Meeting of the Geological Society of America in Denver, CO, November 7-10, 2004.

Rudin, M. From Vegas to Boise: A theme of collaborative research. 88<sup>th</sup> Annual Meeting of the Pacific Division of the AAAS in Boise, ID, May 2007.

## **SELECTED SERVICE ACTIVITIES**

## **Nevada System of Higher Education**

Reviewer for Nevada Regents Researcher and Creative Activity awards, 2003-2005

## **University**

Radiation Safety Advisory Board, Fall 1994 – Present

Established the Lake Mead/Mojave Research Institute, Fall 1999 – Spring 2003

Graduate College New Program Evaluation Committee, Member, 1996/97 Academic Year

Graduate College New Program Evaluation Committee, Chair, Fall 1997 – Spring 2003

Graduate College Executive Committee, Fall 1997 – Spring 2002

UNLV Dental School Faculty Advisory Committee, 2001

Committee to Evaluate Dean Carol Peterson, Chair, Fall 1995

## **College**

College of Health Sciences (CHS) Executive Committee, Fall 1993 – Spring 2003

CHS Ad Hoc Research and Service Committee, Member, 1995/96

CHS Graduate Curriculum Committee, Chair, Fall 1997 – Fall 2002

Developed 3+2 Undergraduate Program in Health Physics with Fort Valley State University, Fall 1994 – Spring 2003

CHS Bylaws Committee, Member 1995 – 1996

## **School/Department**

Department of Health Physics, Chair, Fall 1996 – Spring 2003

Health Physics Program, Director, Fall 1993 – Fall 1996

Revised B.S. in Health Physics Program, Fall 1993

Developed M.S. in Health Program, Fall 1995

Developed Ph.D. in Radiochemistry Program (joint program between Health Physics and Chemistry), Fall 2004

Coordinated successful Accreditation Board for Engineering and Technology, Inc. (ABET)/Applied Science Accreditation Commission (ASAC) accreditation of M.S. in Health Physics Program, Fall 2003

Advisor of UNLV Student Chapter of Health Physics Society, January 1996 – Present

Graduate Coordinator of M.S. in Health Physics Program, Spring 1996 – Spring 2003

## **Professional**

Associate Editor, Health Physics Journal, Spring 1996 – Present

National Health Physics Society (HPS) Academic Education Committee, Chair, Summer 2003 – 2006

HPS Academic Education Committee, Member, Summer 1997 – Summer 2003 (also served on two subcommittees – HPS Fellowships and Accreditation of Health Physics Programs)

Board Member of the Radiochemistry Society, 2001 - Present

President Elect, President, and Past President of the Lake Mead Chapter of the Health Physics Society, Spring 1995 – Spring 1998

Served as reviewer of manuscripts for Waste Management (peer-reviewed journal)

Office of Civilian Radioactive Waste Management Historically Black College and  
Universities Graduate Fellowship and Undergraduate Scholarship Review Team,  
Member, Fall 1995 – Present  
ABET/ASAC Program Evaluator, Fall 2005 – Present