

JASON T. HARRIS, Ph.D.**UNIVERSITY ADDRESS**

Purdue University
 College of Health and Human Sciences
 School of Health Sciences
 Hampton Hall of Civil Engineering
 550 Stadium Mall Drive
 West Lafayette, IN 47907, USA
 P (765) 496-1271
jtharris@purdue.edu

EDUCATION

<u>Degree, Major</u>	<u>Institution</u>	<u>Year</u>
Ph.D., Health Physics	Purdue University, West Lafayette, IN	2007
M.S., Nuclear Engineering	University of Illinois, Urbana-Champaign, IL	2002
B.S., Biology/Marine Sci.	University of Tampa, Tampa, FL	1995

PROFESSIONAL POSITIONS

Associate Professor (tenured November 2015) Purdue University, School of Health Sciences	2015 – present
Associate Professor Purdue University, School of Nuclear Engineering (by courtesy)	2017 – present
Associate Professor (promoted/ tenured July 2012) Idaho State University, Department of Nuclear Engineering and Health Physics	2012 - 2015
Assistant-Associate Professor (Joint Appointment) Idaho National Laboratory	2009 - 2015
Assistant Professor Idaho State University, Department of Physics, Department of Nuclear Engineering and Health Physics	2008 - 2012
Consultant, Senior Scientist and Associate Director North American Technical Center University of Illinois at Urbana-Champaign, Urbana, IL	2008 - 2015
President Harris HP Solutions, LLC	2008 – present
Graduate Instructor Purdue University, School of Health Sciences	2003 - 2007
Graduate Teaching Assistant University of Illinois at Urbana-Champaign , Department of Nuclear, Plasma, and Radiological Engineering	2000 - 2002
Research Scientist/Health, Safety and Radiation Officer Clean Energy Technologies, Inc., Sarasota, FL	1997 - 1999
Environmental Scientist/Chemical Hygiene Officer Marinco Bioassay Laboratory, Sarasota, FL	1995 - 1997

ADMINISTRATIVE POSITIONS

Associate Dean for Graduate Programs and Online Education, 2019 –

College of Health and Human Sciences, Purdue University, West Lafayette, IN
The College of Health and Human Sciences (HHS) is the third largest college at Purdue University. The College has nine departments/schools with nearly 180 tenured/tenure-track faculty, 100 clinical faculty and lecturers, 450 administrative staff professionals, 730 graduate students, and nearly 5000 undergraduate students. As Associate Dean, my role includes the following:

- Manage all aspects of graduate and online education for HHS
- Chair the college Graduate Educational Policy and Curriculum Committee (GEPCC)
- Created and Chair the college Online Learning Committee (OLC)
- Serve on the Graduate School Graduate Education for Advancement (GEA) Committee
- Serve on the college Council of Administrative Officers
- Developed the college Purdue Online strategic and revenue plans
- Created and oversee the college Graduate Student Council
- Served on Implementation Committee for the HHS Realignment
- Served on the Steering Committee for the HHS 2020 Strategic Plan (Co-Chair of Online working group)

Founder and Director, Center for Radiological and Nuclear Security 2018 –

Purdue University, West Lafayette, IN
I proposed a Center to the Discovery Park Institute for Global Security and Defense Innovation (i-GSDI) and the College of Health and Human Sciences, focused on leveraging strong collaborations between faculty working in the areas of nuclear, radiological, and homeland security, nuclear nonproliferation, and WMD emergency preparedness. Our long-term goal is to develop a DOE NNSA-funded center/consortium. My responsibilities as director include:

- Develop mission statement, goals, and strategic plan
- Organize faculty into collaborative groups
- Establish relationships with external organizations and government agencies
- Establish branding and media presence for the Center
- Direct efforts to develop traditional and online educational tracks/majors in nuclear security across three Colleges
- Organize a kick-off symposium with the Institute of Nuclear Materials Management

Chair of Undergraduate Curriculum Committee 2018 – 2019

School of Health Sciences, Purdue University, West Lafayette, IN
The Undergraduate program in the School of Health Sciences at Purdue University is one of the largest in the College of Health and Human Sciences (over 600 students). It includes five undergraduate degrees including a pre-professional program that has seven concentrations. I have served on the Undergraduate Curriculum Committee (UCC) since 2016, and became Co-Chair in 2018. Now as the Chair of the Undergraduate Program, my role includes the following:

- Manage course and program of study changes
- Direct the effort to restructure the health sciences pre-professional program and reevaluate all programs of study, including developing two new concentrations
- Oversee student grievances and course substitution activities
- Represent the School on the HHS Undergraduate Educational Policy & Curriculum Committee

Interim Head

2018

School of Health Sciences, Purdue University, West Lafayette, IN

The School of Health Sciences (HSCI) at Purdue University is one of the largest units in the College of Health and Human Sciences. During my position, the unit had 14 tenured/tenure-track faculty, three administrative staff professionals, three limited term lecturers, approximately 50 graduate students, and over 600 undergraduate students. As Interim Head, my role included the following:

- Performed usual duties of Head including managing administrative staff, meeting with faculty and students to address concerns, performing annual staff reviews, meeting with alumni for development purposes, planning and leading School events and meetings, and representing the School for College and University initiatives
- Managed School budget and administered funding
- Oversaw the hiring of two faculty (one tenure-track, one clinical)
- Advised new Head during transition of School leadership

Director of the Health Physics and Industrial Hygiene Programs

2015 - (HP)

2015-2019 (IH)

School of Health Sciences, Purdue University, West Lafayette, IN

Both the Health Physics (HP) and Industrial Hygiene (IH) programs in the School of Health Sciences have degrees leading to a B.S., M.S. and Ph.D. Nearly half of the School's 16 faculty contribute to these programs that combined, average approximately 50 undergraduate and 20 graduate students. As the Director for these programs, my role includes the following:

- Manage admissions for both graduate programs (working with the Graduate Curriculum Committee)
- Coordinate faculty-program activities such as class scheduling, program review, and external and internal statistics reporting
- Increase undergraduate and graduate student enrollments. Since accepting this position, the graduate student enrollment of the HP program and the undergraduate radiological health sciences program has more than tripled and doubled in size, respectively
- Interface with program alumni to foster stronger relationships with the School. This has led to increased gifting (both monetary and in-kind contributions) and opportunities for students (internships and jobs)
- Lead efforts to develop online graduate programs
- Administer the U.S. NRC and NIOSH Training program grants for the programs.
- Oversee the ABET accreditation for the IH B.S. and M.S. programs. In 2016 and 2018 I successfully led the reaccreditation efforts of both programs while incorporating new assessment methodologies and reforming an external advisory board

Co-Department Chair

2014 - 2015

Department of Nuclear Engineering and Health Physics, Idaho State University
The Department of Nuclear Engineering and Health Physics at Idaho State University is one of the largest units in the College of Science and Engineering. During my position, the unit had 10 tenured/tenure-track faculty, three administrative staff professionals, six technical staff members, nearly 40 graduate students, and approximately 125 undergraduate students. As Co-Department Chair, my role included the following:

- Worked with the Dean and other Co-Chair to manage budget and oversee resource allocation for the department
- Managed all aspects of the Health Physics program, including graduate admissions, faculty class assignments, graduate teaching assistant assignments, undergraduate and graduate student advising, scholarships and fellowships, primarily from the US NRC training grants, and student graduation
- Maintained the health physics B.S. and M.S. programs ABET accreditations
- Developed and maintained the online health physics graduate program
- Oversaw the hiring of three diverse joint appointment tenure-track faculty

Associate Director, Center for Advanced Energy Studies

2012 - 2015

Idaho State University and Idaho National Laboratory

The Center for Advanced Energy Studies (CAES) is a research and education consortium among Boise State University, Idaho National Laboratory (INL), Idaho State University (ISU), University of Idaho, and University of Wyoming. CAES expands the competitiveness and impact of member research and enhances energy-related educational opportunities for the region. INL researchers, in partnership with students and faculty from partner universities, advance research and development in areas such as nuclear science and engineering, advanced materials, cyber security, energy systems, advanced energy storage, geofluids, bioenergy, and energy policy. The annual operating budget of CAES is nearly \$10M and the average annual research funding is \$30M. I served as the ISU Director for CAES. My responsibilities as CAES Associate Director included:

- Managed the ISU portion of the CAES budget (average \$1M per annum), which provided faculty and staff salaries
- Managed ISU faculty and student interactions and involvement with CAES. Between 15-20 ISU faculty and 20-30 students were affiliated with CAES.
- Served as the ISU liaison to CAES partners. Reported to the ISU Vice-President for Research and Economic Development
- Coordinated the Nuclear Science and Engineering Core for CAES which involved facilitating nuclear science research, education, and entrepreneurship among the CAES partners (from 2010-2015)
- Developed, coordinated, and lead all activities of the CAES Analytical Instrumentation Laboratory (from 2009-2015). The laboratory performed radioanalytical research and contracted services for the CAES partners. Secured nearly \$2M in equipment for the laboratory
- Interfaced with the State of Idaho Legislature and State Board of Education on CAES activities, specifically on the Nuclear Science and Engineering Core

- Co-directed the Idaho National Laboratory and CAES Safeguards, Security and Safety Education and Research Consortium (3SERC) (2013-2015). This consortium brought together faculty, research staff, and students from the CAES partners (and the University of Utah) to pursue research in nuclear nonproliferation activities.
- Developed and oversaw the CAES safety plan
- Developed and implemented CAES operating policies, procedures, including the strategic plan and annual operating goals and tasks

Director, Environmental Monitoring Laboratory (EML) 2012 - 2015

Idaho State University, Pocatello, ID

The Idaho State University Environmental Monitoring Laboratory is a state of ID contracted laboratory whose purpose is to provide to the ID Department of Environmental Quality health physics environmental surveillance support services, laboratory sample analysis, measurement data reduction, sample collection, and periodic reporting on behalf of the Idaho National Laboratory (INL) Oversight Program. As Director of the Laboratory, my duties included:

- Managed budget of nearly \$500K per annum
- Managed staff of three and coordinated all student related research using EML equipment and resources. On average, four students were continually employed by the EML
- Successfully rebid contract annually during the time I was employed by Idaho State University
- Implemented cost savings measures for laboratory sample analyses, including developing in-house sample management software
- Worked with laboratory manger to update QA/QC plan
- Prepared and reviewed quarterly reports
- Successfully guided the EML through two state audits without any violations or reporting issues

PROFESSIONAL TRAINING

Purdue University Mediation Training	2020
Purdue Insights Leadership Forum	2018
ABET Program and Advanced Program Assessment Workshops	2017
Idaho State University Leadership Development Program (partial participant)	2015
IAEA Nuclear Cyber/IT Security Professional Development Course	2014
IAEA Safeguards Pre-Inspector Course, Idaho National Laboratory	2013
King's College/IAEA INSEN Nuclear Security Faculty PDC	2012
Radiation Worker II Certification, Department of Energy	2009
Purdue University Graduate Teacher Certificate	2006
ABHP Certification Examination - (Part 1 passed)	2005
Radiation Worker II Certification, Department of Energy	2003
Radiation Safety Officer Certification, Engelhardt and Associates	1997
Statistics in Health Physics, Health Physics Society Summer School	2000

AWARDS, HONORS, and FELLOWSHIPS

Purdue University Teaching Academy Fellow	2022
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Institute of Nuclear Materials Management, Senior Member	2020
Purdue University IMPACT Fellowship	2017
Health Physics Society Elda E. Anderson Award	2012
Purdue University School of Health Sciences Outstanding Young Alumnus	2012
Center for Advanced Energy Studies (CAES) Outstanding Contributor Award	2011
Purdue University Bilsland Dissertation Fellowship	2007
Purdue University Teaching Academy Associate Fellow	2007
Purdue University School of Health Sciences Graduate Student Service Award	2007
Purdue University School of Health Sciences Graduate Student Service Award	2006
U.S. Department of Energy OCRWM Fellowship	2002
Los Alamos National Laboratory Summer Fellowship	2003
U.S. Department of Energy NE/HP Fellowship (awarded, but declined)	2002
American Statistical Association Conference on Radiation and Health New Investigator Award	2006
Purdue University School of Health Sciences Graduate Teaching Award Committee for the Education of Teaching Assistants	2006
Purdue University Frederick N. Andrews Fellowship	2005
Health Physics Society Annual Meeting Travel Award (also 2000, 2001, 2002, 2003, 2004)	2005
Purdue University School of Health Sciences Graduate Teaching Award Committee for the Education of Teaching Assistants	2004
Purdue University School of Health Sciences Wayne V. Kessler Award	2004
Purdue University Graduate School Excellence in Teaching Award	2004
International Radiation Protection Association (IRPA)-11 Congress Young Scientist Travel Award	2004
American Nuclear Society Meeting Travel Award (also 2000, 2001, 2002)	2003
Health Physics Society Summer School Scholarship	2000
University of Illinois INPO Graduate Fellowship	1999

GRANTS AND CONTRACTS

Principle Investigator

1. U.S. Nuclear Regulatory Agency. Health Physics Faculty Development Program at Purdue University. \$450,00. Award period: 10/01/2021-09/30/2024. Refereed. Co-PI: Aaron Bowman.
2. U.S. Department of Energy, PNNL - Nuclear Security Education Radiological Security Online Development at Purdue University. \$82,263. Award period: 09/06/2019-09/30/2020. Co-PI: Robert Bean.
3. U.S. Department of State. Nuclear Security Culture and Insider Threat Workshop in Turkey. \$87,807. Award period: 10/01/2017-9/30/2018.
4. U.S. Department of Energy, PNNL - Nuclear Security Education Expansion to Purdue University - Phase II. \$388,442 (with additional in-kind equipment donation and course support of \$325,000). Award period: 09/06/2017-07/01/2019. Co-PI: Robert Bean.

5. Stanton Foundation. Development of New Nuclear Security Course at Purdue University. \$50,000. Award Period: 07/01/2017-6/30/2018.
6. U.S. Department of Energy, PNNL – Nuclear Security Education Expansion to Purdue University – Phase I. \$99,982. Award period: 02/01/2017-05/31/2017. Co-PI: Robert Bean.
7. U.S. Nuclear Regulatory Agency. Nuclear Engineering and Health Sciences Scholarship Program at Purdue University. \$194,400. Award period: 07/01/2016-06/30/2018. Refereed. Co-PI: Allen Garner.
8. U.S. Department of Energy, NNSA INL – Support for Nuclear Nonproliferation Studies at ISU II. \$76,664. Award period: 8/01/2014-12/31/2015.
9. Battelle Energy Alliance – Idaho National Laboratory. Performance of CAES Core Capability Coordination. \$25,000. Award period: 10/01/2014-09/30/2015.
10. Radiological Laboratory Sample Analysis & Consultation Services. Idaho State University, Department of Environmental Quality. \$324,920, contract – C850. Award period: 10/01/2014-09/30/2015.
11. UT-Battelle, LLC ORNL – Support for research on the effects of irradiated concrete for reactor apps at ISU II. \$26,000. Award period: 04/01/2014-9/30/2014.
12. Battelle Energy Alliance – Idaho National Laboratory. Performance of CAES Core Capability Coordination. \$50,000. Award period: 12/23/2013-09/30/2014.
13. U.S. Department of Energy, NNSA INL – Support for Nuclear Nonproliferation Studies at ISU. \$56,640. Award period: 10/01/2013-09/30/2014.
14. Radiological Laboratory Sample Analysis & Consultation Services. Idaho State University, Department of Environmental Quality. \$324,920, contract – C850. Award period: 10/01/2013-09/30/2014.
15. UT-Battelle, LLC ORNL – Support for research on the effects of irradiated concrete for reactor apps at ISU. \$18,832. Award period: 09/01/2013-12/31/2013.
16. U.S. Department of Energy, PNNL – Lead Slowing Down Spectrometer (MPACT) \$45,000. Award period: 10/01/2012-06/30/2013.
17. U.S. Nuclear Regulatory Agency. ISU Fellowship Program. \$118,699. Award period: 10/01/2013-07/31/2015. Refereed.
18. Radiological Laboratory Sample Analysis & Consultation Services. Idaho State University, Department of Environmental Quality. \$380,000, contract – C850. Award period: 10/01/2012-09/30/2013.
19. Radiological Laboratory Sample Analysis & Consultation Services. Idaho State University, Department of Environmental Quality. \$439,217, contract – C850. Award period: 10/01/2011-09/30/2012.
20. Battelle Energy Alliance – Idaho National Laboratory. CAES Idaho University Consortium - Idaho Nuclear Energy Consortium. \$100,000. Award period: 10/01/2010-09/30/2012.
21. U.S. Department of Energy, 2010 NEUP – Reactor Upgrade \$126,919. Award period: 09/15/2010-09/14/2011. Refereed.
22. Battelle Energy Alliance – Idaho National Laboratory. CAES Utilization-Radioactive Standard Purchase. \$1,920. contract - PO #95166. Award Date: 05/2010.
23. Battelle Energy Alliance – Idaho National Laboratory. CAES Utilization-Nuclear Education, Training, and Support. \$13,000. contract - PO #95890. Award Date: 05/2010.

24. Battelle Energy Alliance - Idaho National Laboratory. CAES Utilization-Nuclear Engineering Lab Support. \$97,133. contract - PO #98034. Award Date: 05/2010.
25. U.S. Nuclear Regulatory Agency. Idaho State University (ISU) Infrastructure Improvement for Nuclear Engineering and Health Physics Laboratory Instrumentation. \$87,072. Award period: 08/01/2010-07/30/2011.
26. U.S. Department of Energy, 2009 Nuclear Energy University Programs - Infrastructure Support, ISU Nuclear Energy University Programs - Infrastructure Support for Radioanalytical and Health Physics Laboratory Instrumentation. \$237,787-ISU Award period: 08/01/2009-07/31/2010. Refereed.
27. U.S. Nuclear Regulatory Agency. ISU Fellowship Program. \$394,219. Award period: 08/01/2008-07/31/2012. Refereed.
28. U.S. Nuclear Regulatory Agency. ISU Faculty Development Grant Program. \$412,000. Award period: 08/01/2008-07/31/2011. Refereed.
29. Civilian Research Development Foundation (CRDF). Tbilisi Radon Assessment Initiative. \$12,000. (Assumed PI role for Project from J. Poe and E. Farfan), 2007-2009.

Co-Principle Investigator

30. Los Alamos National Laboratory. DOE NNSA Office of International Nuclear Safeguards. Development of a novel cognizance paradigm for nuclear material control and accountancy. \$80,000. Award Period: 07/01/2022 - 06/23/2023. Refereed. PI: Hany Abdel-Khalik.
31. Idaho National Laboratory Versatile Test Reactor Program. A Reconfigurable Mechanical Properties Testing Vehicle Instrumented with Novel Sensors, Phase II. \$350,000. Award Period: 01/01/2021 - 12/31/2022. Refereed. PI: Maria Okuniewski.
32. U.S. Nuclear Regulatory Agency. Nuclear Science and Engineering Fellowship Program at Purdue University. \$400,000. Award period: 10/01/2019-09/30/2022. Refereed. PI: Seungjin Kim.
33. U.S. Nuclear Regulatory Agency. Nuclear Science and Engineering Scholarship Program at Purdue University. \$200,000. Award period: 10/01/2019-09/30/2021. Refereed. PI: Seungjin Kim.
34. Idaho National Laboratory Versatile Test Reactor Program. A Reconfigurable Mechanical Properties Testing Vehicle Instrumented with Novel Sensors. \$349,916.00. Award Period: 08/01/2019 - 12/31/2020. Refereed. PI: Maria Okuniewski.
35. U.S. Nuclear Regulatory Agency. Nuclear Science and Engineering Fellowship Program at Purdue University. \$399,757.60. Award period: 7/01/2017-06/30/2020. Refereed. PI: Allen Garner.
36. U.S. Nuclear Regulatory Agency. ISU Scholarship Program. \$173,698. Award period: 10/01/2013-09/30/2015. Refereed. PI: Mary Lou Dunzik-Gougar.
37. CAES Energy Efficiency Research Institute Industrial Assessment Center. U.S. Department of Energy. (Boise State University, primary PI, John Gardner, Director; \$1,500,000 total), \$474,115, submitted August 2011. Award period: 10/01/2011-09/30/2014. Refereed.
38. Radiological Laboratory Sample Analysis & Consultation Services, Special Analysis (CERCLA). Idaho Department of Environmental Quality. \$16,500, contract - C406. Award period: 10/01/2010-09/30/2011. PI: Tom Gesell.

39. Radiological Laboratory Sample Analysis & Consultation Services. Idaho Department of Environmental Quality. \$439,217, contract - C850. Award period: 10/01/2010-09/30/2011. PI: Tom Gesell.
40. U.S. Department of Energy - NEUP. Development and Testing of an Open-Loop Oscillator for Small Reactivity Worth Samples. \$597,252. Award period: 10/01/2010-09/30/2013. Refereed. PI: George Imel.
41. U.S. Nuclear Regulatory Agency. ISU Scholarship Program. \$172,150. Award period: 06/01/2010-05/30/2012. Refereed. PI: Mary Lou Dunzik-Gougar.
42. U.S. Department of Energy, 2009 ATR NSUF Proposal. Real-time ATRC Flux Sensors. \$225,000. Award period: 08/01/2009-07/30/2012. Refereed. PI: George Imel.
43. U.S. Department of Energy, 2009 Nuclear Energy University Programs - Fellowship and Scholarship Support, ISU Nuclear Energy University Programs. Cooperative Agreement for 5 years. Funding range of \$0-200,000/year funded, 1 Fellowship, 5 Scholarships. PI: George Imel.
44. U.S. Department of Energy, 2009 Nuclear Energy University Programs - Infrastructure Support, NGNP Graphite Thermal-Mechanics, Dust Generation and Safety Issues. \$177,000. Refereed. Award period: 08/01/2009-07/31/2010. PI: Akira Tokuhira.
45. U.S. Nuclear Regulatory Agency. ISU Scholarship Program. \$178,672. Award period: 08/01/2009-07/31/2011. Refereed. PI: Michael Lineberry.
46. U.S. Environmental Protection Agency. U.S. Nuclear Power Plant Database. \$20,000. Award period: 10/01/2001-09/30/2003. PI: David Miller.

Co-Investigator

47. U.S. National Institute of Health - NIEH. R-25. Distance Education And Training On Emerging Contaminants And Technologies (Detect). \$1,333,008. (0.18 AY). Award Period: 08/01/2020-07/30/2023. PI: Ellen Wells.
48. U.S. National Institute of Occupational Safety and Health (NIOSH) PAR15-352: Occupational Safety and Health Training Project Grants (T03). \$750,000. Award Period: 07/01/2017-06/30/2022. PI: Ellen Wells.

PUBLICATIONS AND PRESENTATIONS

Refereed Journals

1. RANE, S., HARRIS, J. Quantification of a Facility Radiological Security Risk Index with a Graphical User Interface Tool. Health Physics Journal. Accepted for publication, 12/15/2021.
2. RANE, S., HARRIS, J. A Game Theoretical Model of Radiological Terrorism Defense. International Journal of Nuclear Security. 7(2): Article 7; 2021. <https://doi.org/10.7290/ijns07vrqk>
3. ROBINSON, M., GERMAN, N., WHITE, D., and HARRIS, J. Nuclear Security Awareness Survey at a University. International Journal of Nuclear Security. 7(2): Article 2; 2021. <https://doi.org/10.7290/ijns07j919>
4. RANE S, HARRIS J. Development of a Potential Facility Risk Index for Radiological Security. Risk Analysis : an Official Publication of the Society for Risk Analysis. 2020 Nov. DOI: 10.1111/risa.13625.

5. Majeed, Tariq; Harris, Jason Timothy; Hakam, Oum Keltoum; Larkin, James; Udum, Şebnem; and Sterba, Johannes H. The INSEN Experience, by INSEN Chairs," International Journal of Nuclear Security: 6(2): Article 3; 2020. Available at: <http://dx.doi.org/10.7290/ijns060203>
6. RANE, S., HARRIS, J., FOSS, E. and SHEFFIELD, C. Nuclear and Radiological Source Security Culture Assessment of Radiation Users at a University. Health Phys 115 4 (2018) 637-645.
7. WALLER, E., HARRIS, J., and MARIANNO, C. Experiences with Teaching Nuclear Security Professional Development Courses for Health Physicists. International Journal of Nuclear Security. 2 (1): 89-97; 2016.
8. POUDEL, D., BREY, R., and HARRIS, J. Biokinetics of Plutonium in Nonhuman Primates. Health Phys. Health Phys. 111(4): 348-356; 2016.
9. KYNE, D. and HARRIS, J. A Longitudinal Study of Human Exposure to Potential Nuclear Power Plant Risk. Int J Disaster Risk Sci, December 2015, Volume 6, Issue 4, pp 399-414.
10. HAWKLEY, G., WHICKER J., and J. HARRIS. Observations on Using Inside Air Concentrations as a Predictor of Outside Air Concentrations. Health Phys. 108(4): 465-468; 2015.
11. RANE, S., HARRIS, J., and V. STAROVOITOVA. ^{47}Ca production for $^{47}\text{Ca}/^{47}\text{Sc}$ generator system using electron linacs. Appl. Radiat. Isot. 2015 Mar; 97:188-92.
12. WARREN, GA, KK ANDERSON, JA KULISEK, Y DANON, A WELTZ, A GAVRON, JT HARRIS, and T STEWART. 2013. "Lead Slowing Down Spectrometry Analysis of Data from Measurements on Nuclear Fuel." Nuclear Science and Technology, Volume 179, No. 3. March 2015, Pg 264-273.
13. TROY UNRUH, BENJAMIN CHASE, JOY REMPE, DAVID NIGG, GEORGE IMEL, JASON HARRIS, TODD SHERMAN, JEAN-FRANCOIS VILLARD, "In-core Flux Sensor Evaluations at the ATR Critical Facility," Nuclear Technology, MS NTECH-S-13-00170, Volume 187, No. 3. September 2014, Pg 308-315.
14. MACMILLAN, W., BREY, R., and HARRIS, J. Particle Size Characterization of Aerosols Generated During Surface Contaminated Concrete Demolition. Health Phys. 104(5): S83-S86; 2013.
15. KHALAF, M., BREY, R., HARRIS, J., DERRYBERRY, D., and G. TABATADZE. Monte Carlo Simulation of In-vivo Measurement of the Most Suitable Knee Position for the Optimal Measurement of Activity. Health Phys. 104(4): 405-412; 2013.
16. HARRIS, J. T. and MILLER D. W. Radiological effluents released by U.S. commercial nuclear power plants from 1995-2006. Health Phys. 95(6): 734-743; 2008.
17. HARRIS, J. T., MILLER D. W., and FOSTER D. W. Tritium recapture behavior at a nuclear power reactor due to airborne releases. Health Phys. 95(2): 203-212; 2008.
18. PRICE W. W., HEARD R. W., HARRIS J. T., and MCCOY C. Crustacea of the Cayman Islands, British West Indies. I. records of mysids from shallow water non-reef habitats. *Gulf and Caribbean Research* 14: 35-52; 2002.

Full Paper Reviewed Proceedings

1. HARRIS, J., BRAGERS, E., REKEWEG, E., and WHITE, D. Development and Demonstration of a Research Reactor Nuclear Security Model. INMM & ESARDA Joint Virtual Annual Meeting, August 23-26 and August 30-September 1, 2021. Virtual.

2. RANE, S., MCCORMICK, N., GERMAN, N., PAONE, K. and HARRIS, J. Assessment of Nuclear Security Culture at Radiological Facilities across the United States. INMM & ESARDA Joint Virtual Annual Meeting, August 23-26 and August 30-September 1, 2021. Virtual.
3. HARRIS, J. and BRAGERS, E. Development of a Radiological Safety and Security Risk Index: Pathway Analysis Example. Proceedings of the 15th International Congress of the International Radiation Protection Association, Seoul, South Korea, 18-23 January 2021. (IRPA-14 Secretariat Office, Seoul, 2021). Paper T6.3-0288.
4. CONNER, N., IMEL, G. and HARRIS, J., Modeling of Self-Powered Neutron Detectors (SPND) for the Versatile Test Reactor (VTR). Transactions of the Winter Meeting of the American Nuclear Society. Vol 123, No. 1, November 2020, Pages 651-654.
5. HARRIS, J. RANE, S. and SHEFFIELD, C. Analysis of Adversary Attack Scenarios for Radiological Dispersal Device Assets. INMM 61st Annual Meeting, July 12-16, 2020. Virtual.
6. HARRIS, J., RANE, S., BRAGERS, E. and WHITE, D. Nuclear Security Risk Analysis of an Higher Education Institution Research Reactor. International Conference on Nuclear Security, February 10-14, 2020. Vienna, Austria.
7. RANE, S. and HARRIS, J., Model of a Potential Facility Risk Index (PFRI). International Conference on Nuclear Security, February 10-14, 2020. Vienna, Austria.
8. RANE, S., HARRIS, J. Development of a Comprehensive Risk Model for Radiological Security. 9th INMM/ESARDA/INMMJ Joint Workshop, Tokyo Japan, October 7-10, 2019.
9. HARRIS, J. and RANE, S. Assessment of Radioactive Material Security Culture at Universities and Medical Facilities. International Conference on the Security of Radioactive Material: The Way Forward for Prevention and Detection, December 3-7, 2018. Vienna, Austria.
10. RANE, S., and HARRIS, J. Nuclear Security Culture Assessment of Radiation Users of Nonnuclear Facilities. ANS Advances in Nuclear Nonproliferation Technology and Policy Conference 2018, September 23-27, 2018. Wilmington, North Carolina.
11. RANE, S., HARRIS, J., FOSS, E. and SHEFFIELD, C. Nuclear and Radiological Source Security Culture Assessment of Radiation Users at an Academic Institution. INMM 58th Annual Meeting, July 22-26, 2018. Baltimore, Maryland.
12. HARRIS, J., and BEAN, R. Development of a Multidisciplinary Nuclear Security Education Program at Purdue University. INMM 58th Annual Meeting, July 22-26, 2018. Baltimore, Maryland.
13. HARRIS, J. Innovation in Training Materials and Programs for Nuclear Safety and Security Leadership and Culture. In: Proceedings of the 2017 Conference on Nuclear Training and Education, Jacksonville, FL, February 5-8, 2017. ISBN: 978-0-89448-736-1.
14. HARRIS, J., and WALLER, E. Initiatives to Integrate Nuclear Security with Radiation Protection Education and Training. In: Proceedings of the 6th International Conference on Education and Training in Radiological Protection (ETRAP), Valencia, Spain, May 30 - June 2, 2017. ISBN: 978-92-95064-30-0.
15. HARRIS, J. Educational Initiatives to integrate Nuclear Security and Radiation Protection. International Conference on Nuclear Security: Commitments and Actions, December 5-9, 2016. Vienna, Austria.

16. HARRIS, J. and WALLER, E. Nuclear Security Consideration for Radiation Protection Professionals. In: Proceedings of the 14th International Congress of the International Radiation Protection Association, Cape Town, South Africa, 9-13 May 2016. (IRPA-14 Secretariat Office, Cape Town, 2016). Paper 712.
17. HARRIS, J. and MILLER, D. Recent Developments in Occupational Exposure Reduction in Nuclear Power Plants. In: Proceedings of the 14th International Congress of the International Radiation Protection Association, Cape Town, South Africa, 9-13 May 2016. (IRPA-14 Secretariat Office, Cape Town, 2016). Paper 760.
18. KROL D., HARRIS, J., and ZYDEK D. Hybrid GPU/CPU Approach to Multiphysics Simulation. H. Selvaraj et al. (eds.), Progress in Systems Engineering: Proceedings of the Twenty-Third International Conference on Systems Engineering, Advances in Intelligent Systems and Computing 1089, DOI 10.1007/978-3-319-08422-0_130, Springer International Publishing Switzerland 2015
19. HARRIS, J. International Trends in Nuclear Security Education. INMM 55th Annual Meeting, July 20-24, 2014. Atlanta, Georgia.
20. KULISEK, JA, KK ANDERSON, AM CASELLA, GA WARREN, A GAVRON, Y DANON, A WELTZ, JT HARRIS, G IMEL, and T STEWART. 2013. *Update on Establishing the Feasibility of Lead Slowing-Down Spectroscopy for Direct Measurement of Plutonium in Used Fuel*. Proceedings of the Annual Meeting of the Institute of Nuclear Materials Management, Palm Desert, California, July 14-18, 2013.
21. HARRIS, J., HOBBS, C., AND STERBA, J. Course Material and Curriculum Development Activities of the International Nuclear Security Education Network (INSEN). INMM 54th Annual Meeting, July 14-18, 2013. Palm Desert, California.
22. HARRIS, J. Information Security of Nuclear Systems. Advances in Systems Science. Proceedings of the International Conference on Systems Science 2013 (ICSS 2013). Advances in Intelligent Systems and Computing, Vol. 240. Swiątek, J.; Grzech, A.; Swiątek, P.; Tomczak, J.M. (Eds.) 2014, XVI, 807 p. 273 illus.
23. HARRIS, J. International Nuclear Security Education Network (INSEN): Past Accomplishments and Future Plans. International Conference on Nuclear Security: Enhancing Global Efforts, July 1-5, 2013. Vienna, Austria.
24. HARRIS, J., MILLER, D., FLEGEL, S., and JENSEN J. Comparison of Radioactive Fallout in the United States from the Fukushima and Chernobyl Accidents. Submitted to IRPA 13. Reviewed full papers published in Proceedings in Summer 2012.
25. HARRIS, J. T. and MILLER D. W. Radiological impact of commercial nuclear power plant releases in the United States: a 12-year study. 12th Congress of the International Radiation Protection Association (IRPA 12) Proceedings of a Conference held in Buenos Aires Argentina, 19-24, October 2008. ISBN 978-92-0-10541-4. 2010.
26. HARRIS, J. T. and MILLER D. W. Trend analysis of commercial U.S. nuclear power plant radiological releases. In: *Proceedings of the 11th International Congress of the International Radiation Protection Association*, Madrid, Spain, 23-28 May 2004. (IRPA-11 Secretariat Office, Madrid, 2004) CD-ROM paper 6F7.
27. HARRIS, J. and BREY, R. Nuclear Education in the United States: Current Status and Future Projections. ENS Nuclear Education and Training Conference (NESTet 2011). May 15-18, Prague, Czech Republic. Transactions of NESTet 2011. European Nuclear Society. ISBN: 978-92-95064-12-6.
28. HARRIS, J., IMEL G. and BREY, R. Advances in Health Physics and Nuclear Engineering Education at Idaho State University. ANS CONTE 2011. February 6-9,

2011. Jacksonville, Florida. Proceedings of CONTE 2011. American Nuclear Society. ISBN: 978-089448-087-4.
29. HARRIS, J., IMEL G. and BREY, R. Idaho State University Education and Training for the Nuclear Renaissance. ANS CONTE 2009. February 8-11, 2009. Jacksonville, Florida. Proceedings of CONTE 2009. American Nuclear Society. ISBN: 978-0-89448-066-0.
 30. HARRIS, J. and MILLER, D. Radiological impact of commercial nuclear power plant releases in the United States: a 12-year study. 12th International Congress of the International Radiation Protection Association. October 19-24, 2008. Buenos Aires, Argentina.
 31. HARRIS, J. T. Public Dose Analysis of Nuclear Power Plant Radiological Emissions. American Statistical Association 2006 Conference on Radiation and Health (Monterey, California, June 2006).
 32. HARRIS, J. T. and D. W. MILLER. Trend Analysis of commercial U.S. nuclear power plant radiological effluents. Proceedings of the 11th International Congress of the International Radiation Protection Association, 23-28 May 2004, Madrid, Spain, 2004.

Reviewed Conference Abstracts

1. HARRIS, J., BRAGERS, E., REKEWEG, E., and WHITE, D. Research Reactor Nuclear Safety and Security Risk Analysis with Vulnerability and Consequence Values. *Health Phys*, Vol. 122 Supplement 1, No. 1, March 2022.
2. HARRIS, J. and RANE, S. The Potential Facility Risk Index (PFRI) – An assessment tool for radiological security. *Health Phys*, Vol. 122 Supplement 1, No. 1, March 2022.
3. HARRIS, J. and RANE, S. Development of a Facility Nuclear Security Risk Framework. Society for Risk Analysis 2021 Annual Meeting. Virtual, December 5-9, 2021.
4. ROBINSON, M., GERMAN, N. and HARRIS, J. Building a Statistical Index on Nuclear Security Culture Awareness at a University. Health Physics Annual Meeting, Orlando, FL, July 7-11, 2019.
5. YOUNG, J., and HARRIS, J. Analysis of Tritium Recapture from Airborne Gaseous Effluent Releases at Cook Nuclear Power Plant. *Health Phys*, Vol. 112, Supplement 1, No. 1, August 2017.
6. KADIRI, A. and HARRIS, J. Shielding Analysis for a New High Power Electron Accelerator at the Idaho State University Idaho Accelerator Center. *Health Phys*, Vol. 111, No. 1, August 2016.
7. KRAGE, E, POUDEL, D., MORRELL S. and HARRIS, J. Improved Nuclear Security and Radiation Protection at University Facilities. HPS Annual Meeting, July 12 – July 16, 2015. Indianapolis, IN.
8. PAUDEL, K., DUNKER, R. and HARRIS, J. Use of an Autonomous Device to Measure Photon Dose Rates at a Molybdenum Processing Facility. HPS Annual Meeting, July 12 – July 16, 2015. Indianapolis, IN.
9. KYNE, D. and HARRIS, J. Development of a Nuclear Power Plant Potential Risk Index (NPP PRI). HPS Annual Meeting, July 12 – July 17, 2014. Baltimore, MD.
10. HARRIS, J., et al. International Nuclear Security Education Network (INSEN): Past Accomplishments and Future Plans. ANS CONTE 2013, February 3-6, 2013. Jacksonville, Florida.
11. HARRIS, J. Tritium Releases from Nuclear Power Plants. Invited Talk. HPS Annual Meeting, July 22 – July 26, 2012. Sacramento, CA.

12. HARRIS, J. et al. The International Nuclear Security Education Network (INSEN). HPS Annual Meeting, July 22 – July 26, 2012. Sacramento, CA.
13. SCHIERMAN, R., DUNKER, R., and HARRIS, J. Survey of Pre- and Post- Fukushima Honey for Cesium -134 and Cesium-137. HPS Annual Meeting, July 22 – July 26, 2012. Sacramento, CA.
14. RUDIN. M., BREY, R., and HARRIS, J. Accreditation of Health Physics Academic Programs in the U.S. IRPA 13 Congress. May 13-18, 2012. Glasgow, ID
15. ALTIC, N., HARRIS, J. and WELLS D. Characterization of Farady Cup Response in a Broad High-Energy Electron Beam. HPS Annual Meeting. June 26 – June 30, 2011. West Palm Beach, FL.
16. HARRIS, J. and JENSEN J. Development of a Health Physics Laboratory for Research and Education at the Center for Advanced Energy Studies. HPS Annual Meeting . June 26 – June 30, 2011. West Palm Beach, FL.
17. TROY UNRUH, JOY REMPE, DAVID NIGG, PAUL HART, GEORGE IMEL, JASON HARRIS, ERIC BONEBRAKE, “Flux Sensor Evaluations at the ATR Critical Facility,” 7th International Topical Meeting on Nuclear Plant Instrumentation, Control, and Human Machine Interface Technologies (NPIC&&HMIT 2010), Las Vegas, NV, November 7-11, 2010.
18. BOND, J., BALZER, M., HARRIS, J. Analysis of a Linear Particle Accelerator Using Radiochromic Film, Radiographic Film, and Activation Foils. HPS Annual Meeting. June 27 – July 1, 2010. Salt Lake City, UT.
19. TORMOHLN, D., HARRIS, J., BALZER, M. A Comparison of Optically Stimulated Luminescence, Thermoluminescence and Film Dosimetry at the Idaho Accelerator Center. HPS Annual Meeting. June 27 – July 1, 2010. Salt Lake City, UT.
20. HINCHCLIFFE, W., HARRIS, J., MILLER, D. Tritium Recapture Due to Rain and Snow at a Nuclear Power Plant. HPS Annual Meeting. June 27 – July 1, 2010. Salt Lake City, UT.
21. HAWKLEY, G., HARRIS, J., MILLER, D. Investigation of Bacteria Bioaccumulation of Carbon-14 on the Glycol Piping in Pressurized Water Reactor Containment Buildings. HPS Annual Meeting. June 27 – July 1, 2010. Salt Lake City, UT.
22. SULLIVAN, M., MILLER, J., HARRIS, J., BREY, R. Comparison of Methods Utilized for the Decontamination of Irradiated Topaz. HPS Annual Meeting. June 27 – July 1, 2010. Salt Lake City, UT.
23. HARRIS, J. et al. Review of Radon Assessment Studies in the City of Tbilisi, Republic of Georgia. HPS Annual Meeting. July 12-16, 2009. Minneapolis, MN.
24. HARRIS, J. et al. Preliminary Production of Mo-99/Tc-99m and Cu-67 at the Idaho Accelerator Center. HPS Annual Meeting. July 12-16, 2009. Minneapolis, MN.
25. SINHA, V and HARRIS, J. Development of Calibration Phantoms for Newborns and Small Children. HPS Annual Meeting. July 12-16, 2009. Minneapolis, MN.
26. HARRIS, J. and MILLER, D. Radiological Environmental and Public Exposure Considerations for Existing and Future Nuclear Power Plants. HPS Annual Meeting. Invited Talk. July 12-16, 2009. Minneapolis, MN.
27. HARRIS, J. and MILLER, D. Airborne H-3 Recapture in Frost at a Nuclear Power Reactor. HPS Annual Meeting. July 13-17, 2008. Pittsburgh, PA.
28. HARRIS, J.T. Evaluation of U.S. nuclear power plant radiological environmental monitoring programs. Health Physics Society Annual Meeting (Portland, Oregon, July 2007).

29. SANDISON, G. A., ZIEMER P. L. and HARRIS, J.T. Health Physics at Purdue University. Health Physics Society Annual Meeting (Providence, Rhode Island, June 2006).
30. HARRIS, J.T. Public Doses resulting from nuclear power. Health Physics Society Annual Meeting (Spokane, Washington, July 2005).
31. SHELDON, R.J., HARRIS, J.T., and LEPPER, K. (2003) Beta/Gamma dose rate relationships: Evaluating a practical application for Pajarito Plateau sediments. 2nd North American Luminescence Dating Workshop, Abstracts Volume.
32. HARRIS, J. T. and D. W. MILLER. The NATC's role in national radiological emergency preparedness. Health Physics Society Annual Meeting (Tampa, Florida, June 2002).
33. HARRIS, J. T. and D. W. MILLER. A report and comparison of U.S. nuclear power plant gaseous releases from 1994-1999. Health Physics Society Annual Meeting (Cleveland, Ohio, June 2001).

Technical Reports

1. UNRUH, T., CHASE, B., REMPE, J., NIGG, D., IMEL, G., HARRIS, J., SHERMAN, T., and VILLARD, J. In-core Flux Sensor Evaluations at the ATR Critical Facility. Nuclear Fuels & Materials Spotlight, Volume 4, Idaho National Laboratory, INL/EXT-14-31925. April 2014, Pg 80-93.
2. WARREN, GA, JA KULISEK, A GAVRON, Y DANON, A WELTZ, JT HARRIS, and T STEWART. 2013. *Lead Slowing-Down Spectrometer FY2013 Annual Report*. Report No. PNNL-22920, Pacific Northwest National Laboratory, Richland, Washington.
3. WARREN, GA, JA KULISEK, A GAVRON, Y DANON, A WELTZ, JT HARRIS, and T STEWART. 2013. *Lead Slowing Down Spectrometer Research Plans*. Report No. PNNL-22340, Pacific Northwest National Laboratory, Richland, Washington.
4. WARREN, GA, KK ANDERSON, AM CASELLA, Y DANON, M DEVLIN, A GAVRON, RC HAIGHT, JT HARRIS, G IMEL, JA KULISEK, JM O'DONNELL, T STEWART, and A WELTZ. 2012. *Lead Slowing-Down Spectrometry Time Spectral Analysis for Spent Fuel Assay: FY12 Status Report*. Report No. PNNL-21970, Pacific Northwest National Laboratory, Richland, Washington.
5. TROY UNRUH, JOY REMPE, GEORGE IMEL, JASON HARRIS, ERIC BONEBRAKE. Real-Time Advanced Test Reactor Critical Facility (ATRC) Flux Sensors. 2011 ATR NSUF Annual Report. INL/EXT 13-29138.
6. TROY UNRUH, JOY REMPE, GEORGE IMEL, JASON HARRIS, ERIC BONEBRAKE. Real-Time Advanced Test Reactor Critical Facility (ATRC) Flux Sensors. 2010 ATR NSUF Annual Report. INL/EXT 12-25810.

Textbook Chapters

1. HARRIS, J., RANE. S. The Interface between Nuclear Safety and Security, in *Nuclear Security Handbook*. Textbook. In press (2022). Book Chapter. Oxford University Press, Oxford.
2. FUTTER, A., HARRIS, J. Cyber Threats and Nuclear Vulnerabilities, in *Nuclear Security Handbook*. Textbook. In press (2022) . Book Chapter. Oxford University Press, Oxford.

3. HARRIS, J. T. Radiological Releases and Environmental Monitoring at Commercial Nuclear Power Plants, in *Nuclear Power– Operation, Safety and Environment*. Textbook. ISBN: 978-953-307-185-5. Book Chapter. InTech – Open Access Publisher, Croatia.

Invited Presentations

1. HARRIS, J.T. How Can Men Be Allies with Women in Nuclear Fields. Black Sea Women in Nuclear Network, Virtual Inaugural Meeting, November 29 – December 3, 2021.
2. HARRIS, J.T. Assessment of Radiological Security Culture. Security Culture for Users of Radioactive Material and Sources, Virtual Regional Workshop for Central Asia and Azerbaijan, November 17-19, 2021.
3. HARRIS, J.T. Invited Speaker (Lectureship), Physical Protection of Nuclear Material and Nuclear Facilities. IAEA International School on Nuclear Security for the Students of the Marie Sklodowska-Curie Fellowship Programme (MSCFP), Vienna, Austria, November 15-26, 2021.
4. HARRIS, J.T. Invited Speaker (Lectureship), Nuclear Applications. IAEA International School on Nuclear Security for the Students of the Marie Sklodowska-Curie Fellowship Programme (MSCFP), Vienna, Austria, November 15-26, 2021.
5. HARRIS, J.T. Women in Nuclear Security: A Man’s Perspective for Achieving Gender Equity. LANL Atomic Women Meeting, Virtual Meeting, September 7, 2021.
6. HARRIS, J.T. Women in Nuclear Security. IAEA INSEN Annual Meeting, Virtual Meeting, August 16-20, 2021.
7. HARRIS, J.T. Nuclear Security Education Best Practices and Lessons Learned from the COVID-19 Pandemic. IAEA INSEN Annual Meeting, Virtual Meeting, August 16-20, 2021.
8. HARRIS, J.T. Environmental Radiation Exposure: Fact vs. Fiction. AACR Annual Meeting (Radiation-Induced Cancers and Cancer Survivorship), Virtual Meeting, April 10-15, 2021.
9. HARRIS, J.T. New Insights in Nuclear Security Risk Assessment. Texas A&M, Department of Nuclear Engineering, Rothrock Lecture Series, Virtual Seminar, February 24, 2021.
10. HARRIS, J.T. Non-State Actors and the Insider Threat. KCL-NAUSS Workshop on Nuclear Security Education and Training. Virtual Workshop, November 9-10, 2020.
11. HARRIS, J.T. Development of a Nuclear Security Education Program for Diverse Audiences. King’s College London Nuclear Security Education Seminar Series. Virtual Workshop, August 25, 2020.
12. HARRIS, J.T. Chernobyl (panel Discussion on HBO’s 2019 miniseries). Nuclear Engineering Department, University of California Berkeley. Berkeley, CA, February 3, 2020.
13. HARRIS, J.T. Robotics, Nuclear Risk and Atomic Anxieties Panel. Purdue- East Asia: Exploring New Humanities Workshop, West Lafayette, IN, October 22, 2019.
14. HARRIS, J.T. Robotics, AI, Safety and Security Panel. Purdue University, Atoms for Humanity Summit, West Lafayette, IN, September 5, 2019.
15. HARRIS, J.T. Potential Nuclear Power Plant Risk from Radiological Releases. Colorado State University, Department of Environmental & Radiological Health Sciences Seminar, Ft. Collins, CO, February 8, 2018.

16. HARRIS, J.T. The role of the Health Physicist in the Security of Radioactive Material. Health Physics Society Hoosier Chapter Annual Meeting, Indianapolis, IN, May 3, 2018.
17. HARRIS, J.T. Innovation in Training Materials and Programs for Nuclear Safety and Security Leadership and Culture 2017 Conference on Nuclear Training and Education (CONTE 2017). Jacksonville, FL, February 5-8, 2017.
18. HARRIS, J.T. Nuclear Security Consideration for Radiation Protection Professionals. Guest Academic Seminar, SCK-CEN, Mol, Belgium, July 12, 2016.
19. HARRIS, J.T. Nuclear Security Consideration for Radiation Protection Professionals. 14th International Congress of the International Radiation Protection Association, Cape Town, South Africa, May 9, 2016. Keynote Speaker.
20. HARRIS, J.T. Recent Developments in Occupational Exposure Reduction in Nuclear Power Plants". 14th International Congress of the International Radiation Protection Association, Cape Town, South Africa. May 12, 2016. Keynote Speaker.
21. HARRIS, J.T. Information Security and Knowledge Management. Invited Talk. PNS and KCL Professional Development Workshop: Insider Threats and Security Culture. Marrakesh, Morocco, August 3-7, 2015.
22. HARRIS, J.T. Role of Management in Strengthening Security Culture. Invited Talk. PNS and KCL Professional Development Workshop: Insider Threats and Security Culture. Marrakesh, Morocco, August 3-7, 2015.
23. HARRIS, J.T. Nuclear Security: Participant Curriculum Review and Critique. Department of State PNS and University of Georgia CITS Nuclear Security Curriculum Development Workshop. Tbilisi, Georgia, August 3-4, 2015.
24. HARRIS, J.T. Nuclear Security: Teaching Methods, Design Basis Threat, and Curriculum Development presentations. Department of State PNS and University of Georgia CITS Nuclear Security Curriculum Development Workshop. Vienna, Austria, May 12-15, 2015.
25. HARRIS, J.T. Nuclear Security: Threats and Terrorism. Invited Talk. US Department of State PNS Webinar series. Gadjah Mada University, Indonesia. May 5, 2015.
26. HARRIS, J.T. Nuclear Security: Detection of Unauthorized Acts Involving Nuclear/Radiological Materials. Invited Talk. US Department of State PNS Webinar series. University of the Witwatersrand, South Africa. April 21, 2015.
27. Harris, J.T. Securing Nuclear Materials: Destructive Analysis and Non-Destructive Assay. Invited Talk. US Department of State PNS Webinar series. Pandit Deendayal Petroleum University, India. April 16, 2015.
28. MORAN, M and HARRIS, J.T. Advanced Curriculum Design Concepts: Research-led teaching and microteaching. Invited Talk. PNS and KCL Advanced Nuclear Security Curriculum Design Workshop. Vienna, Austria, February 23-24, 2015.
29. HARRIS, J.T. Materials and Resources for Nuclear Security Education (including online resources). Invited Talk. PNS and KCL Advanced Nuclear Security Curriculum Design Workshop. Vienna, Austria, February 23-24, 2015.
30. HARRIS, J. T. IAEA Radiation Source Controls in the Era of Global Terrorist Threats. 2015 NATC ISOE ALARA Symposium. Invited Talk. Ft. Lauderdale, Florida, January 11, 2015.
31. HARRIS, J. T. International Nuclear Security Education Network (INSEN): Structure, Accomplishments, and Lessons Learned. United Nations 1540 Committee. Invited Talk. United Nations, New York, NY, November 17, 2014.

32. HARRIS, J. T. Nuclear Energy and Security. Naval Post Graduate School Energy Academic Group Seminar Series. Invited Talk. Monterey, CA, November 14, 2014.
33. HARRIS, J. T. Radiological Environmental and Public Exposure Considerations for Existing and Future Nuclear Power Plants. Plenary Lecture. The Fourth Regional African Congress of the International Radiation Protection Association (AFRIRPA04), September 13-17, 2014, Rabat, Morocco.
34. HARRIS, J. T. Nuclear Security Education – Panel on Capacity Building. Nuclear Knowledge Summit: Nuclear Security, Policy & Ethics, March 23, 2014, TU Delft, Netherlands.
35. HARRIS, J. T. Tools and Resources from the International Nuclear Security Education Network (INSEN). Partnership for Nuclear Security (PNS) Curriculum Development Workshop: Sharing and Applying Best Practices, December 15-19, 2013, Abu Dhabi, UAE.
36. HARRIS, J. Information Security of Nuclear Systems. Keynote Speech. International Conference on Systems Science (ICSS 2013), September 10-12, 2013, Wroclaw, Poland.
37. HARRIS, J. International Nuclear Security Education Network (INSEN): Past Accomplishments and Future Plans. Partnership for Nuclear Security, July 14, 2013. Palm Desert, California
38. HARRIS, J. International Nuclear Security Regime. 2013 International Safeguards Pre-Inspector Training, April 30 – May 9, 2013, Idaho Falls, ID.
39. HARRIS, J. Introduction to Nuclear Security I. Introduction de la sécurité nucléaire dans les programmes d’enseignement des sciences nucléaires au Maroc, May 28, 2013, Fez, Morocco.
40. HARRIS, J. Introduction to Nuclear Security II. Introduction de la sécurité nucléaire dans les programmes d’enseignement des sciences nucléaires au Maroc, May 28, 2013, Fez, Morocco.
41. HARRIS, J. Nuclear Security Fundamentals / Nuclear Security Education. Train-the-Trainers Workshop on Nuclear Security. University of Ibn Tofail-Faculty of Sciences, May 30-31, 2013, Kenitra, Morocco.
42. HARRIS, J. Nuclear Security at the State Level. Train-the-Trainers Workshop on Nuclear Security. University of Ibn Tofail-Faculty of Sciences, May 30-31, 2013, Kenitra, Morocco.
43. HARRIS, J. Unauthorized Acts Involving Nuclear and Other Radioactive Material. Train-the-Trainers Workshop on Nuclear Security. University of Ibn Tofail-Faculty of Sciences, May 30-31, 2013, Kenitra, Morocco.
44. HARRIS, J. Overview of International Nuclear Security Education Network Train-the-Trainers Workshop on Nuclear Security. University of Ibn Tofail-Faculty of Sciences, May 30-31, 2013, Kenitra, Morocco.
45. HARRIS, J. Nuclear Threats from Non-State Actors. University of Ibn Tofail-Faculty of Sciences, May 30-31, 2013, Kenitra, Morocco.
46. HARRIS, J. Smartgrid and your Health. CAES. Workshop on Smartgrid, February 12, 2013.
47. HARRIS, J. Ensuring a Secure Nuclear Infrastructure in South Africa: A Workshop Towards Sustainable Education, December 3-7, 2012, Johannesburg, South Africa.
48. HARRIS, J. International Nuclear Security Framework. Ensuring a Secure Nuclear Infrastructure in South Africa: A Workshop Towards Sustainable Education, December 3-7, 2012, Johannesburg, South Africa.

49. HARRIS, J. Tritium Releases from Nuclear Power Plants. Invited Talk. HPS Annual Meeting, July 22 – July 26, 2012. Sacramento, CA.
50. HARRIS, J. Comparison of radioactive fallout in the US from the Fukushima and Chernobyl accidents. University of Utah Nuclear Engineering Program Seminar. Invited Talk, November 9, 2011.
51. HARRIS, J. and MILLER, D. Radiological Environmental and Public Exposure Considerations for Existing and Future Nuclear Power Plants. HPS Annual Meeting. Invited Talk. July 12-16, 2009. Minneapolis, MN.

Conference/Meeting Presentations and Lectures

1. HARRIS, J. T. Assessing the Effect of INSEN Activities on Nuclear Security Education. 2015 International Nuclear Security Education Network (INSEN) Working Group Meeting. Vienna, Austria, February 25-27, 2015.
2. HARRIS, J. T. The Importance of Accrediting Radiation Protection Educational Programs. Workshop on Education and Training. The Fourth Regional African Congress of the International Radiation Protection Association (AFRIRPA04), September 13-17, 2014, Rabat, Morocco.
3. HARRIS, J. T. The Role of Radiation Protection Professionals in Nuclear Security. Workshop on Nuclear Security. The Fourth Regional African Congress of the International Radiation Protection Association (AFRIRPA04), September 13-17, 2014, Rabat, Morocco.
4. HARRIS, J. T. Panel Discussion on Opportunities for the Young Generation in Nuclear Security. Workshop on INMM. The Fourth Regional African Congress of the International Radiation Protection Association (AFRIRPA04), September 13-17, 2014, Rabat, Morocco.
5. Waller, E, JT HARRIS, and C MARIANNO. The Role of Nuclear Security for the Health Physicist. AAHP Course. HPS Annual Meeting. Baltimore, MD. July 12, 2014.
6. BAHRAN, RM, JT HARRIS, C HOBBS, and OB HAKAM. Nuclear Security Education: Highlighting the International Nuclear Security Education Network (INSEN). Third International Conference On Physics And Technology Of Reactors And Applications. INMM Workshop on Reducing the Risk from Nuclear and Radioactive Material. Tetouan, Morocco. May 12-14, 2014.
7. HARRIS, J. Nuclear Security and the Role of the Health Physicist. 18th Annual John Horan Memorial Symposium: Topics in Health Physics. Pocatello, ID. April 12, 2014.
8. HARRIS, J. Role of an ABET PEV. Panel Session. Winter Meeting of the American Nuclear Society. Washington, DC. November 11, 2013.
9. KULISEK, JA, KK ANDERSON, AM CASELLA, GA WARREN, A GAVRON, Y DANON, A WELTZ, JT HARRIS, G IMEL, and T STEWART. 2013. "Status on Establishing the Feasibility of Lead Slowing Down Spectroscopy for Direct Measurement of Plutonium in Used Fuel." Presented at the Annual Meeting of the Institute of Nuclear Material Management, Palm Desert, California on July 18.
10. JA KULISEK, GA WARREN, Y DANON, VA GAVRON, and J HARRIS. "LEAD SLOWING-DOWN SPECTROMETRY FOR DIRECT MEASUREMENT OF PU IN USED FUEL." Presented at DOE-NE MPACT Working Group Meeting, College Station, Texas, TX on March 12, 2013. PNNL-SA-94194.
11. HARRIS, J. Nuclear Energy – Idaho’s Role in Workforce and Economic Development. Invited Talk. Idaho Research Symposium. February 1-2, 2012. Boise, ID.

12. MILLER, D., HARRIS, J., FLEGEL, S. and JENSEN J. Comparison of Chernobyl and Fukushima Accident I-131 Detection in the US and Canada. 21st Annual RETS-REMP Workshop. June 29 – June 30, 2011. Chicago, IL.
13. HARRIS, J. Radiological Releases and Environmental Monitoring at Commercial Nuclear Power Reactors. HPS Annual Meeting. Continuing Education Lecture. June 27 – July 1, 2010. Salt Lake City, UT.
14. PLESNER, S., GOSS, L., SINHA, V. and HARRIS, J. Separation and sensitive detection of trace amounts of copper in zinc. Idaho State University Undergraduate Research Symposium. March 2010. Pocatello, ID.
15. HARRIS, J. Health Physics at Commercial Nuclear Power Reactors – Environmental and Occupational Issues – Peer Enrichment Program. HPS Annual Meeting. July 12-16, 2009. Minneapolis, MN.
16. HARRIS, J. Historical US REMP & RETS Trend Study. 19th Annual RETS-REMP Workshop. June 21-24, 2009. South Bend, IN.
17. HARRIS, J. Airborne H-3 Recapture in Frost at a Nuclear Power Reactor. 18th Annual RETS-REMP Workshop. June 23-25, 2008. Charlotte, NC.
18. HARRIS, J. Airborne H-3 Recapture in Frost at a Nuclear Power Reactor. The John Horan HPS Symposium. April 26, 2008. Pocatello, ID.
19. HARRIS, J. T., MILLER D. W. and BROWN T. Cook Nuclear Plant experience with storm water tritium discharges. 17th Annual RETS/REMP Workshop (Philadelphia, Pennsylvania, June 2007).
20. HARRIS, J. T. Overview of U.S. radiation protection programs responses to tritium in groundwater. 2007 International ISOE ALARA Symposium and EPRI Radiation Protection Conference (Ft. Lauderdale, Florida, January 2007).
21. HARRIS, J. T. North American Technical Center Public Radiation Safety Research Program REMP Study. 16th Annual RETS/REMP Workshop (Mashnatucket, Connecticut, June 2006).
22. HARRIS, J. T. U.S. Tritium Modeling using the NATC/UNSCEAR Effluent Database. 2006 EPRI Radiation Protection Conference and North American ISOE ALARA Symposium (Orlando, Florida, January 2006).
23. HARRIS, J. T. and D. W. MILLER. U.S. Nuclear Power Sister Plant Radiological Effluent Release Comparisons. 14th Annual RETS/REMP Workshop (Syracuse, New York, June 2004).
24. MILLER, D. W. and J. T. HARRIS. Update on IRPA-11 Meeting and ICRP new recommendations. 14th Annual RETS/REMP Workshop (Syracuse, New York, June 2004).
25. HARRIS, J. T. and D. W. MILLER. Trend Analysis of commercial U.S. nuclear power plant radiological effluents. 2004 NATC ISOE ALARA Symposium (Coral Gables, Florida, January 2004).
26. HARRIS, J. T. and D. W. MILLER. The past, present, and future of the NATC's Public Radiation Safety Research Program. 12th Annual RETS/REMP Workshop (Atlantic City, New Jersey, June 2002), EPRI Radiation Protection Technology Conference (Baltimore, Maryland, October 2002).
27. HARRIS, J. T. and D. W. MILLER. Comparative Study of U.S. nuclear power plant gaseous and liquid effluent releases. ANS Student Mini-Conference (Reno, Nevada, November 2001).

28. HARRIS, J. T. and D. W. MILLER. Trend Analysis of 1994-1999 U.S. nuclear power plant gaseous and liquid effluent releases. 11th Annual RETS/REMP Workshop (Burlington, Vermont, June 2001).
29. HARRIS, J. T. Development of effluent databases for the U.S. nuclear power industry. International ALARA Symposium (Anaheim, California, January 2001).
30. MILLER, D. W. and J. T. HARRIS. North American gaseous and liquid effluent databases for UNSCEAR reports & utility benchmarking. 10th Annual RETS/REMP Workshop (Cape Cod, Massachusetts, June 2000).

Non-Refereed Publications

1. HARRIS, J. T. Networking for Nuclear Security: The International Nuclear Security Education Network. Organisation for the Prohibition of Chemical Weapons. OPCW Today. Volume 2, No. 5. December 2013.

TEACHING EXPERIENCE

Purdue University (2016 - present)

HSCI 5551 - Physical Agents in Environmental Health (Graduate), 4 semesters
HSCI 3346 - Industrial Hygiene Engineering Control (Undergraduate), 2 semesters (team taught)
HSCI 5574 - Medical Health Physics (Undergraduate/Graduate), 4 semesters
HSCI 4150/5150 (POL 42900) - Introduction to Nuclear and Radiological Source Security (Undergraduate/Graduate), 5 semesters
HSCI 5590 - Applied Nuclear Security Detection (Undergraduate/Graduate), 2 semester

Idaho State University (2008-2015)

NE 4488 - Non-Proliferation of Nuclear Weapons/Safeguards (Junior-Graduate), 1 semester
NE 4447 - Nuclear Systems Laboratory (Junior-Senior), 1 semester
HPHY 4411 - Accelerator Health Physics (Junior - Graduate), 1 semester
HPHY 4420 - Reactor Health Physics (Junior-Graduate), 2 semesters
HPHY 4432 - Radiation Physics II, Principles of Health Physics II (Junior - Graduate), 3 semesters
HPHY 4455 - Topics in Health Physics I (Junior-Graduate), 4 semesters
HPHY 4456 - Topics in Health Physics I (Junior-Graduate), 4 semesters
HPHY 4488 - Advanced Radiobiology (Junior - Graduate), 4 semesters
HPHY 4418 - Non-ionizing Radiation Protection (Junior - Graduate), 3 semesters
HPHY 4418 - Industrial Ventilation and Aerosol Physics (Junior - Graduate), 3 semesters
HPHY 4480 - Health Physics Capstone Class/Senior Design (Senior), 2 semesters
HPHY 4499 - Introduction to Nuclear Security/Wiki Development (Junior - Graduate), 1 semester
HPHY 6601 - Quantitative Methods in Physics (Graduate), 3 semesters
HPHY 6648 - CHP Exam Prep Course, 1 semester
NSEN 590 - Nonproliferation and Nuclear Safety (Junior - Graduate), Guest Lecturer, 1 semester
HPHY 6605 - Radiological Environmental Monitoring and Surveillance (Graduate), 2 semesters
BIOL 3307 - Radiobiology (Junior-Senior), 2 semesters

Purdue University (2005-2007)

HSCI 322L – Radiation Dosimetry Laboratory (Junior - Senior), 3 semesters

HSCI 514 – Radiation Instrumentation Laboratory (Junior – Graduate), 3 semesters

HSCI 438 – Reactor Health Physics (Junior – Graduate), 2 semesters

HSCI 534 – Applied Health Physics (Junior-Graduate), 2 semesters

STUDENT AND SCHOLAR ADVISING**Post-Doctoral Associates**

1. Dr. Shraddha Rane 2020-2021

Visiting Scholars

1. Ms. Sheila Gbormittah 2020
IAEA PhD scholar (Ghana)

Graduate Students**Chairperson – Ph.D.**

1. Mr. Theodore Thomas 2021
in progress
2. Ms. Joeun Lee 2021
in progress
3. Dr. Shraddha Rane 2020
Quantitative model for assessing facility level radiological risk
4. Ms. Emily Bragers 2019
in progress
5. Mr. Anastasios Deligiannis 2019
Uncertainty Analysis of Selective Radiometric Quantities and
Application of Prediction Intervals in Radiochemistry Procedures
in progress
6. Mr. Zachary Harvey 2019
in progress
7. Mr. Todd Sherman 2019
in progress
8. Mr. Troy Unruh 2019
in progress
9. Ms. Jenna Deaven 2019
in progress
10. Dr. Adamu Kadiri 2017
Shielding Upgrade and Beam Dump Design Analysis for a
40-Mev Electron Linear Accelerator at Idaho Accelerator Center
11. Dr. Gavin Hawkley 2014
A Methodology for the Estimation of a Near Field ²³⁹Pu
Concentration Profile During the Cleanup of a Manhattan
Project Era Radioactive Waste Site

Chairperson – M.S.

1. Mr. Nicholas Nochese 2021
in progress

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|---|------|
| 2. Mr. Carter Jaynes
in progress | 2021 |
| 3. Ms. Nakima McCormack
non-thesis | 2020 |
| 4. Mr. Patrick Foster
non-thesis | 2020 |
| 5. Mr. Michael Todd
non-thesis | 2020 |
| 6. Mr. Timothy Hooker
non-thesis | 2020 |
| 7. Ms. Emily Chou
non-thesis | 2020 |
| 8. Mr. Kyle Smith
non-thesis | 2019 |
| 9. Ms. Emily Bragers
non-thesis | 2019 |
| 10. Ms. Marcia Robinson
non-thesis | 2019 |
| 11. Ms. Jennifer Turnage (ISU)
in progress | 2019 |
| 12. Ms. Jaclyn Holmzer (ISU)
in progress | 2019 |
| 13. Mr. John Bullock
non-thesis | 2019 |
| 14. Mr. Eric Foss
non-thesis | 2017 |
| 15. Mr. Joshua Young,
Radiological Impact of Tritium from Gaseous Effluent
Releases at Cook Nuclear Power Plant | 2017 |
| 16. Mr. Kent Fisher
Investigation of Tritium Airborne Effluent Release Interception
and Retention by Snow Precipitation at Cook Nuclear Power Plant | 2016 |
| 17. Mr. Andrew Jensen
Effluent Monitoring station for Columbia NPP | 2016 |
| 18. Mr. Travis Bennett
EML Operational Analysis of LabSOCS | 2016 |
| 19. Mr. Kishor Paudel
Photon Dose Rates and Potential Source Term from
TENORM at a Molybdenum Ore Processing Facility | 2015 |
| 20. Mr. Derick Tormohlen
Glovebox Safety Analysis of Possible Accidental Releases of
Special Nuclear Materials | 2014 |
| 21. Mr. John Hills
Establishing an Anti-Coincidence System for an HPGe
Detector Using a Custom Circuit Board | 2013 |
| 22. Mr. Trevor Stewart
Design and Calibration of Thorium Fission Chambers for Use | 2013 |

- in Lead Slowing-Down Spectroscopy
23. Ms. Shraddha Rane 2013
Feasibility Study of Accelerator Production of Ac-225
 24. Mr. James Schrader 2013
Establishment of a Method to Select Appropriate ICRP 68/72
Dose Coefficient Lung Absorption Type Based on Event Specific
Conditions
 25. Mr. Ryan Schierman 2013
Survey of United States Honey for Cs-137 and Cs-134 in
Response to the Fukushima Daiichi Accident
 26. Mr. Adamu Kadiri 2012
Shielding Analysis for a New High-Power Electron Accelerator
at the Idaho State University Idaho Accelerator Center
 27. Mr. James Blacker 2012
Dose Rate Measurements from Treatment Accessories using
the Varian Novalis TX Medical Linear Accelerator
 28. Mr. Eric Bonebrake 2011
Calibration of Ultra-Depleted Uranium Foils using a Back to
Back Fission Chamber
 29. Mr. Nicholas Altic 2011
Characterization of Faraday Cup Response in a Broad High
Energy Electron Beam
 30. Mr. Gavin Hawkey 2010
Methodology Using the MELCOR Code to Model a Proposed
Hazard Scenario
 31. Mr. William Hinchcliffe 2010
Investigation of Tritium Recapture at Cook Nuclear Power
Plant from Airborne Effluent Releases
 32. Mr. Robert English 2010
Validation of Demolition and Decontamination (D&D) Internal
Dosimetry Program at the Idaho National Laboratory
- Committee Member - Ph.D.**
1. Mr. Clive Townsend 2021
in progress (Nuclear Engineering)
 2. Mr. Dulus Owen 2020
in progress (Materials Engineering)
 3. Mr. Tru Miller 2020
in progress (Nuclear Engineering)
 4. Mr. Michael Abel 2019
Development and validation of a novel *in vivo* associated particle
neutron elemental imaging system for noninvasive medical diagnostics
 5. Ms. Heather Seipel 2019
Detection and Identification of Fissionable Materials:
A Study in Delayed Neutrons
 6. Dr. Chris Horton 2018
Analysis of Alzheimer's Disease from lead exposure in IN
 7. Dr. Levan Tkavadze 2017

- Investigating Uranium Concentrations, Isotopic Ratios, And Activity Ratios in Groundwater in the state of Idaho
8. Dr. Christian Cowles 2016
Development of a Lithium Fluoride / Zinc Sulfide Neutron Multiplicity Counter
 9. Dr. Deepesh Poudel 2016
Systemic and Wound Behavior of $^{238}\text{Pu}(\text{IV})$ Citrate in Nonhuman Primates
 10. Dr. Eric Krage 2015
Biokinetics of Strontium-90 in Nonhuman Primates
 11. Dr. Jyothier Kumar Nimmagadda 2015
Sensitivity analysis of the integral experiment MANTRA
 12. Dr. Dawid Krol 2015
GPU Oriented Approach to Finite Element Multiphysics Simulation
 13. Dr. Tony Riley 2014
Risk Informed Safeguard Strategy for a Pyroprocess Facility
 14. Dr. Kevin Konzen 2014
Development of a Pu-DTPA Biokinetic Model and Suggested Modification to the ICRP 67 Biokinetic Model
 15. Dr. Jason Davis 2014
Older Than Reference Man: The Biokinetic Significance of Anatomical and Physiological Changes with Advancing Age
 16. Dr. Olumuyiwa Omotowa 2014
(University of Idaho) Scaling Approach and Thermal-Hydraulic Analysis In The Reactor Cavity Cooling System Of A High Temperature Gas -Cooled Reactor and Thermal-Jet Mixing In A Sodium Fast Reactor
 17. Dr. Benjamin Baker 2013
Comparison Of Open Loop And Closed Loop Reactivity Measurement Techniques On The Isu-Agn-201 Reactor
 18. Dr. Daniel LaBrier 2013
Characterization of ^{14}C in Neutron-Irradiated Graphite
 19. Dr. Nino Chelidze 2012
Biokinetics of Pu-238 Injected in Nonhuman Primates
 20. Dr. Majid Khalaf 2012
Monte Carlo Simulation of *In-vivo* Measurement of the Most Suitable Position of a Knee for the Most Accurate Measurement of the Activity
 21. Dr. George Tabatadze 2012
USTUR Case 0102 Voxel Phantom for External Gamma-Ray Detector Response Simulation
 22. Dr. Eugene Hochhalter 2012
Criticality Prompt Gamma and Neutron Dose Consequence Equations Validated by Monte Carlo Analyses and Compared to Known Criticalities
 23. Dr. Maia Avtandilashvili 2012
Modification of the ICRP Human Respiratory Tract Model Using the Human Data Associated with Occupational Inhalation Exposure to Refractory PuO_2 Aerosols
 24. Dr. Robert Acha 2011
A Monte Carlo Simulation of the In-vivo Measurement of Lung

- Activity in the LLNL Torso Phantom
25. Dr. Chad Pope 2011
Spent Nuclear Fuel Assembly Inspection using Neutron Computed Tomography
 26. Dr. Maxwell Ankrah 2010
Sensitivity Measurements for Cargo Scanning Applications using Photon Interrogation and Neutron Signature Counting Techniques
 27. Dr. Neba Robinson Neba 2010
Feasibility Studies of Bremsstrahlung Radiation for Microbeam Radiation Therapy
 28. Dr. Lali Tchelidze 2010
Feasibility Study of Accelerator Based Production of $^{99}\text{Mo}/^{99\text{m}}\text{Tc}$ Nuclear Radioisotope
 29. Dr. Naz Fallahian 2008
Study of the Association between Exposure to Transuranic Radionuclides and Cancer Death

Committee Member- M.S.

1. Mr. Nathan Conner 2020
In Progress (ISU)
2. Mr. Mitchell Hemsworth 2020
Nuclear Engineering – Development of the CTMFD for In-air Rn and Actinide Alpha Detection
3. Ms. Mychaela Coyne 2017
Quantification of Sodium (Na) in Bone with *In Vivo* Neutron Activation Analysis (IVNAA) and Its Implications on Na Retention Studies
4. Ms. Samantha Winkle 2017
(University of Utah), nonthesis
5. Mr. Cody Womack 2015
The Construction and Characterization of a Large Volume Wilson Cloud Chamber Utilizing Orthogonal Cameras for Image Capture
6. Mr. Thaddeus Morris 2015
The Role of Technologists in Computed Tomography Patient Dose Optimization
7. Mr. Mohamed Benzerga 2014
Demonstrating that an Open Loop System could be Implemented in a Fast Reactor
8. Ms. Fatima Khokonova 2014
SAAM II Predictions based on ICRP 78 Systemic Model coupled to NCRP 156 Wound Model for Plutonium
9. Ms. Kathy Nelson 2014
Optimization of the Thermal Treatment Process for the Removal of ^{14}C from Irradiated Graphite for Waste Volume Reduction and Bulk Graphite Recycle
10. Mr. Hamed Almagran 2014
Biokinetics of Strontium-90 Injected in Non-human Primates Using SAAM Software and IMBA Professional Plus Software

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| 11. Mr. Sean Morrell | 2014 |
| Nuclear Nonproliferation University Curriculum | |
| 12. Mr. Harishchandra Aryal | 2014 |
| Small Reactivity Measurement in Advanced Test Reactor Critical (ATRC) and Neutron Radiography (NRAD) Reactor and an Oscillator Design | |
| 13. Mr. Eric Krage | 2014 |
| Evaluation of Sr-90 Intravenously Injected Non-Human Primate Using ICRP 78 Model | |
| 14. Mr. Micah Kingston | 2014 |
| The Study of the Health Effects of 50 Nanometer Gold Nanoparticles on Mouse Macrophage and Spleen Cells | |
| 15. Mr. Adel Alsaraj | 2014 |
| 2-D Shape Classification Using Moments Invariants and Fractal Geometry in the Presence of Noise | |
| 16. Mr. Sultan Alsufyani | 2013 |
| Feasibility Study of Photon Activation Analysis (PAA) for Gold Bearing-Ore Assay | |
| 17. Mr. Adam Langbehn | 2013 |
| Determination of the Prompt Neutron Lifetime for the ISU-AGN-201 Reactor using Perturbation Theory | |
| 18. Mr. Yi-Chun Wang | 2013 |
| Thermal Behavior of High-Power Targets for Neutron and Photon Production | |
| 19. Mr. Tony Riley | 2013 |
| Calibration of Reactivity Oscillator for ISU AGN-201 Reactor | |
| 20. Ms. Mandi Hill | 2013 |
| Comprehensive Portfolio – Master of Speech-Language Pathology | |
| 21. Mr. Takehito Hirayama | 2013 |
| Biokinetics of Americium-241 Intramuscularly and Intravenously Injected in Non-human Primates | |
| 22. Mr. Mark Allen | 2013 |
| Validating National Council on Radiation Protection and Measurement Report 156 Wound Model for Strontium-90 using Simulated Wounds from Non-Human Primates | |
| 23. Mr. Mark Williams | 2013 |
| General Regression Models Describing the Retention of Strontium-90 in the Skeleton of Rhesus Monkeys as a Function of Independent Population Factors | |
| 24. Mr. Daniel Atamanczyk | 2013 |
| Modeling of Monkey Data Experiments: Determining the Merits of Current Models through Analysis of Non-Human Primate Experimentation Data | |
| 25. Dr. Leland Davis | 2013 |
| Seasonal and Wildfire Based Variation of Aerosols in a High Desert Shrubland Environment | |
| 26. Mr. Luke Kotredas | 2013 |
| University of Idaho, MS project | |
| 27. Mr. Deepesh Poudel | 2012 |

- Biokinetics of Intravenously Injected Plutonium in Macaques
28. Ms. Tara Smith 2012
Removal of C-14 from Irradiated Graphite for Waste Volume Reduction and Bulk Graphite Recycle: Thermal Treatment
29. Ms. Nada Alomairy 2012
An Investigation of ICRP 67/78 Biokinetic Models for Am-241 Applied to Non-Human Primates
30. Mr. Jinho Jung 2012
Verification of the Performance of the Inlight EX Optically Stimulated Luminescence Dosimeter System for Environmental Radiation Surveillance/Monitoring
31. Mr. Tyson Harker 2012
Comparing ICRP Recommended Human Biokinetic Model Prediction for Sr-90 with Non-Human Primate Bioassay
32. Ms. Audrey Evelan 2012
Contamination Analysis of Radioactive Samples in Focused Ion Beam Instruments
33. Mr. Brian Crawford 2012
Evaluation of Possible Tritium Leaching and Down Gradient Transport from Landfills in Idaho
34. Mr. Jeff Cady 2011
Dust Loading and Sample Self-Absorption of Alpha Particles
35. Mr. James Cleaver 2011
Thermal Treatment of Irradiated Graphite for the Removal of C-14
36. Mr. Walter MacMillan 2011
Particle Size Characterization of Aerosols Generated During the Demolition of Surface Contaminated Concrete at the Idaho National Laboratory
37. Mr. Shilo McCrory 2011
Characterizing the Pathway to Formation of C-14 in Irradiated Graphite
38. Mr. Mark White 2010
non-thesis project
39. Mr. Navid Tehrani 2010
A Comparison of Dr. Patricia Durbin's Originally Collected Nonhuman Primate Transfer Rates to ICRP 78 Transfer Rates for Reference Man
40. Mr. Erwei Shi 2010
Gamma Spectroscopy Efficiency Approximations for Non-Standard Sample Geometries
41. Mr. Kevin Konzen 2010
Evaluating Rn-22 and Rn-220 Progeny Through Low-Resolution Alpha Spectroscopy for the Discrimination of Transuranic Radionuclides
42. Ms. Celena Lewis 2009
Investigation of Biases Observed Among Three methods for Measuring Gross Alpha Particle Concentration in Ambient Air
43. Mr. Ben Estes 2008
Testing of Health Physics Instruments in Pulsed Photon Fields from

a Linear Accelerator

Undergraduate Student Advising (Purdue University only)

1. Mr. Ricardo Sahugan	2021 - present
2. Ms. Karina Paone	2021 - present
3. Ms. Emma Rekeweg	2020 - present
4. Ms. Naomi German	2018 - present
5. Ms. Destiny White	2019 - present
6. Ms. Alexandre Chabot	2019 - 2020
7. Ms. Courtney Sheffield	2017 - 2020

UNIVERSITY SERVICE

Purdue University

University Service

Member, Signature Areas Committee College of Health and Human Sciences	2019
Member, Undergraduate Educational Policy & Curriculum Committee, College of Health and Human Sciences	2019
Director, Purdue NNIS Graduate Fellowship (SCUREF)	2018 - present
Member, CIE Focus Group on academic success College of Health and Human Sciences	2018
Member, Search Committee for Dean College of Health and Human Sciences	2017 - 2018
Member, Transform Purdue, College Faculty Liaison College of Health and Human Sciences	2017 - present
Member, Research Advisory Council College of Health and Human Sciences	2017 - 2018
Member, University Senate	2017 - present
Member, Student Affairs Committee (SAC) University Senate	2017 - present
Member, Commencement College Marshall College of Health and Human Sciences	2017
Member, Radiation Safety Committee, Purdue University	2016 - present

Departmental Service

Member, Safety Committee	2020 -
Chair/Co-Chair, Undergraduate Curriculum Committee	2018 - 2019
Chair, Web Page and Library Committee	2017 - 2019
Chair, Ad Hoc Review Committee on Bilsland Dissertation Fellowship	2017
Member, Undergraduate Curriculum Committee	2016 - 2019
Member, Ad Hoc Review Committee on PRF Grants	2016 - 2017
Member, Committee on International Exchange Programs	2016 - 2019
Member, Faculty Search Committee	2017 - 2018
Member, Graduate Curriculum Committee	2016 - 2017
Chair, Faculty Search Committee	2016 - 2017

Director, US NRC Training Grant	2016 - present
Co-Director, NIOSH Training Grant	2016 - present
Representative, Departmental College student activities	2016 - present
Member, Promotion and Tenure Committee	2015 - present
Director, Health Physics Program	2015 - present
Director, Industrial Hygiene Program	2015 - 2019
Member, Grade Appeals Committee	2003 - 2007

Idaho State University (2008-2015)

University Service

Member, President's Research and Innovation in Science and Engineering Institute Scientific Advisory committee	2014 - 2015
Member, Faculty Appeals Panel	2014 - 2015
Member, Graduate Council	2011 - 2013
Chair, Radiation Safety Committee	2011 - 2015
Member, Scholarship Committee School of Engineering	2011 - 2015
Member, Search Committee for Technical Safety Office (TSO) Director	2011
Member, External Program Graduate Faculty Representative	2010 - 2015
Member, Travel and Research Student Committee College of Science and Engineering	2010 - 2011
Member, New Freshman Registration Advising College of Science and Engineering, Idaho Falls Campus	2010
Member, Engineering and Applied Science Ph.D. Program Committee, College of Science and Engineering	2010 - 2015
Member, ISU - USA Science and Engineering Festival Team	2010, 2014
Chair, Accelerator Safety Committee	2009 - 2011
Member, New Faculty Orientation Committee	2009 - 2010
Member, Environmental Science and Management (ENSM) Program council, 2009 - 2015	2009 - 2015
Member, College of Education Teacher Education Program Admission interviewer	2008 - 2015
Member, NSF WeLEAD Mentoring Program Pilot Project	2008-2012

Departmental Service

Chair, Faculty Search Committee	2014 - 2015
Director, Health Physics Program	2012- 2015
Member, Faculty Search Committee	2011 - 2013
Director, US NRC Training Grant	2009 - 2015
Member, QUARKNET Program	2008 - 2011
Member, REU Program	2008 - 2011
Member, Promotion and Tenure Committee	2008 - 2015

PROFESSIONAL AFFILIATIONS

American Academy of Health Physics Associate Member	2006 - 2012
American Industrial Hygiene Association Member	2018 - present
American Nuclear Society Student Member, 1999-2007 Member, 2007-present	1999 - present
Beta Beta Beta (National Biological Honor Society) Student member, 1991-2002	1991 - 2002
Health Physics Society Plenary Member	1998 - present
International Atomic Energy Agency International Nuclear Security Education Network Member	2010 - present
Institute of Nuclear Materials Management (INMM) Full Member Senior Member	2013 - present 2013-2020 2020-present
North American Young Generation in Nuclear (NA-YGN) Member	2003-2007
Society of Risk Analysis	2021 - present

PROFESSIONAL SERVICE

Professional Organization Service

ABET Program Evaluator (PEV), Applied and Natural Science Accreditation Commission (ANSAC), Health Physics	2013 - present
American Nuclear Society Executive Committee, RPSD Board of Directors	2014 - 2017 2003 - 2005
Beta Beta Beta (National Biological Honor Society) President, University of Tampa branch.	1994 - 1995
Health Physics Society Board of Directors Health Physics Program Directors Organization Chair Advisor, Purdue University student branch Task Force Committee member, IRPA 2024 US Bid Team President, Accelerator Section Executive Committee, PDS Committee President, Eastern Idaho Chapter Executive Committee, Power Reactor Section Advisor, Idaho State University student branch Executive Committee, Student DVD Ad Hoc Committee. Executive Committee, Academic Education Committee	2016 - 2019 2010 - present 2021 - present 2016 - present 2013-present 2013 - 2014 2010 - 2016 2010 - 2015 2009 - 2015 2008 - 2015 2007 - 2013 2005 - 2008 2021 - present
Delegate, International Radiation Protection Association (IRPA) (11, 12, 13, 15 Congresses)	2004 - 2016 2019 - present

Advisor, Purdue University Student Branch	2004 - 2007
President, Purdue University Student Branch	2002 - 2004
International Atomic Energy Agency	
Advisory Board for European MSc in Nuclear Security	2013 - present
International Nuclear Security Education Network (INSEN)	
Chair	2012 - 2014
WGIII Chair	2011 - 2012
Institute of Nuclear Materials Management (INMM)	
Member-at-Large Executive Committee, Central Chapter	2018 - present
Co-Advisor, Purdue University Student Chapter	2017 - present
Co-Advisor, ISU Student Chapter	2013-2015
North American Technical Center (NATC) ISOE	
Public Radiation Safety Research Program	
Effluent Expert Committee	2002 - 2012

Grant Review

Department of Energy, Nuclear Energy Universities Program	2019 - present
Department of Energy, SBIR Program	2020 - present
NASA EPSCoR Reviewer	2017 - present
Ontario Research Fund Reviewer	2017
Nuclear Nonproliferation International Safeguards (NNIS) Graduate Fellowship Program Reviewer	2015 - present
US Nuclear Regulatory Commission Grant Reviewer	2015 - present

Journal Review

Health Physics Journal	2010 - present
International Journal of Environmental Research and Public Health	2018 - present
International Journal of Nuclear Security	2018 - present
Journal of the Air & Waste Management Association	2019 - present
Nuclear Technology	2015 - present
	2009 - 2010
Progress in Nuclear Energy	2008 - 2016
Risk Analysis	2017 - present
Sustainability	2017 - present

Technical Program and Publication Service

American Nuclear Society	
Conference on Nuclear Training and Education (CONTE)	2012 - 2014
Program Committee	
Health Physics Society	
Professional Development School (Internal Dosimetry)	2010
Administrative Dean	
John Horan Memorial Symposium: Topics in Health Physics	2010 - 2014
Organizer	
International Atomic Energy Agency	
Co-Organizer, Women in Nuclear Security Initiative (WINSI)	
Webinar Series - Education as a Key to Addressing	

the Gender Equality Gap in Global Nuclear Security International Radiation Protection Association (IRPA)	2021 - 2022
International Congress Programme Committee (ICPC)	2018 - present
International Congress Support Committee (ICSC)	2015 - 2016
AFRIRPA 04	2014
Scientific Committee Coordinator/Technical Program Committee MeV (Modeling Experimentation Validation) Summer School Advisory Board	2009 - present
North American Technical Center (NATC) ISOE International ALARA Symposium Organizing Committee	2000 - 2010
RETS-REMP Workshop Steering Committee	2004 - 2014

Media Events

Titans of Nuclear Podcast. Jason Harris: Expert of Nuclear Energy	9/25/2019
Idaho State Journal. Nuclear Cybersecurity article for UN	11/19/2014
Post Register. ISU Professor to talk Nuclear Security at UN	11/12/2014
KPVI. ISU Professor to Address U.N. on Nuclear Security	11/11/2014
KPVI. Idaho State University/Idaho National Laboratory Nuclear Non-Proliferation Education Program Gaining Traction	9/27/2014
New York Times Tokyo. Interview on the effects of radioactive releases from the Fukushima Daiichi nuclear power plant accident	8/7/2013
Forbes James Conca. Do nuclear power plants cause cancer? Interview	4/1/2013
KIDAM 590 talk radio Idaho Falls, ID - interview on the health effects of Smart Grid	2/14/2013