

D. Study Committee Bios

Anthony D. Lavietes, Study Committee Co-Chair; International Atomic Energy Agency (IAEA)

Tony Lavietes is a researcher with the IAEA's Department of Safeguards. He specializes in electrical engineering. As a member of the Institute of Electrical and Electronics Engineers (IEEE), Tony serves as Committee Chairman of Nuclear & Plasma Sciences Society's Radiation Instrumentation Technical Committee (RITC) whose purpose is to promote the development and applications of radiation detectors.

James Trebes, Study Committee Co-Chair; Lawrence Livermore National Laboratory (LLNL)

Jim Trebes is currently the Physics Division Leader at LLNL's Physical and Life Sciences Directorate. The Physics Division conducts frontier physics research and development in optical and x-ray science, detectors, accelerators, lasers, space, and fusion.

Robert Borchers, Maui High Performance Computing Center (MHPCC)

Bob Borchers is the Chief Technology Officer at the MHPCC at the University of Hawaii, specializing in various aspects of high performance computing.

Jill Dahlburg, Naval Research Laboratory (NRL)

Jill Dahlburg has been Superintendent of the Space Science Division at the NRL since 2007. In this position she serves as Science/Technical expert to the Department of the Navy (DON)/ Department of Defense (DoD), other government, and international fora on a broad-spectrum RDT&E program in solar-terrestrial physics, astrophysics, upper/middle atmospheric science, and astronomy. Jill was the Senior Scientist for Science Applications at NRL from 2003 – 2007.

John Donnelly, District of Columbia Fire & EMS

John Donnelly is the Deputy Fire Chief at DC Fire and EMS and is also an Adjunct Professor at the University of the District of Columbia. He specializes in homeland security and emergency preparedness.

Adam Isles, The Chertoff Group

Adam Isles is the Managing Director at The Chertoff Group, focusing on security risk management, domestic and international border security, and cyber security. Prior to The Chertoff Group, Adam worked at Raytheon Company as Director of Strategy and Policy Consulting for homeland security. He also served as Deputy Chief of Staff at the U.S. Department of Homeland Security.

Neil Johnson, Naval Research Laboratory (NRL)

Neil Johnson is the Head of the High Energy Space Environment Branch in NRL's Space Science Division and is the Deputy Principal Investigator for Instrument/Observatory Operations for the Large Area Telescope (LAT) on Fermi. He specializes in the detection and study of high energy signatures in astrophysical objects as well as terrestrial and near earth environments.

Glenn Knoll, University of Michigan

Glenn Knoll is Professor Emeritus of Nuclear Engineering & Radiological Sciences at the University of Michigan. He specializes and is interested in detection and spectroscopy of ionizing radiation, gamma ray imaging for medical and other applications, three dimensional position sensing in gamma ray spectroscopy, and neutron detection and imaging.

Richard Kouzes, Pacific Northwest National Laboratory

Richard Kouzes is a Laboratory Fellow at PNNL, working in the areas of neutrino science, homeland security, non-proliferation, and computational applications. His work on homeland security has been for the development and deployment of radioactive material interdiction equipment at U.S. borders, and for three years he was the Principal Investigator and Technical Lead for the U.S. Customs and Border Protection's Radiation Portal Monitor Project.

Richard Lanza, Massachusetts Institute of Technology

Richard Lanza is a Senior Research Scientist in the MIT Department of Nuclear Science and Engineering. His interests are primarily in the area of application of nuclear techniques and development of instrumentation to problems in materials science, medicine and national security. He has been active in development of new imaging methods for nuclear medicine and also in the problem of detection of illicit materials such as explosives, contraband, and special nuclear materials.

James Lund, Sandia National Laboratory

Jim Lund is Senior Manager of Security Systems Engineering at Sandia. Jim's research has included work on neutron scatter cameras able to detect radiation from greater distances and through more shielding. His expertise is in semiconductor material science, detector design, and application of detection and imaging devices and systems.

Stanley Prussin, University of California, Berkeley

Stan Prussin is a Professor of Nuclear Engineering at UC Berkeley. His areas of expertise include fission product behavior in nuclear fuels, radiation detection, and radio and nuclear chemistry and applications. His research interests are in the areas of low energy nuclear physics and chemistry, the use of nuclear methods and instrumentation for solution of applied problems, with current emphasis on nuclear security and nuclear forensics.

ACKNOWLEDGEMENTS

The Study Committee wishes to thank Dr. Joel Rynes, Director of TARD, and the entire TARD staff for their assistance in making this review possible. They provided substantial information requiring significant preparation, and freely participated in numerous discussions covering the full range of TARD and nuclear counter-terrorism issues. The Committee also wishes to thank Jeanette Russo of the American Physical Society and Kaye Washington of TARD for setting up our workshops and arranging for numerous side meetings and conference calls. Additionally, the Study Committee would like to thank the numerous invited participants in the workshop who provided valuable insights into the many research achievements and also the issues facing TARD, and who offered a host of beneficial, useful suggestions for the TARD research program.