

Dr. Craig F. Smith, PhD, Nuclear Science & Engineering, UCLA

Craig F. Smith, Research Professor of Physics, Ph.D. in Nuclear Science and Engineering, UCLA, 1975. Resides in Reno, NV area. Chief Technical Officer, NV SecureTheGrid Coalition.

Dr. Smith is Research Professor of Physics at the Naval Post Graduate School. His research interests include nuclear energy, non-proliferation and counterterrorism technologies. He is the US member of an international steering committee on lead-cooled nuclear reactors, and has worked internationally in research related to counter-terrorism technology and automated systems. He is a Fellow of the American Nuclear Society (ANS) and of the American Association for the Advancement of Science (AAAS).

DR. SMITH'S ACADEMIC SUMMARY AND PROFESSIONAL MEMBERSHIPS:

- Ph.D. Nuclear Science & Engineering, University of California, Los Angeles (UCLA), 1975.
- Certificate of Specialization, Nuclear Science and Engineering, UCLA, 1973
- B.S. Engineering, *summa cum laude*, UCLA, 1971.
- Visiting Research Fellow, ENSI-Bourges, France, 2001-2002
- LLNL Chair Professor at the Naval Postgraduate School, 2004-2010
- Adjunct Professor, Monterey Institute of International Studies, 2006-10
- Member, Tau Beta Pi, Sigma Xi, AAAS, ANS
- Fellow, American Nuclear Society, 2001
- Fellow, American Association for the Advancement of Science, 2002

PROFESSIONAL SUMMARY:

Dr. Smith is a nuclear scientist/engineer with background and research interests in the nuclear, environmental, energy, defense and information sciences. He is currently serving as Research Professor of Physics at the U.S. Naval Postgraduate School. His research focus includes small nuclear energy systems; non-proliferation; counterterrorism technology; energy studies; radiation detection; and information technology.

Dr. Smith is a research collaborator for several international projects, including those in Europe and the former Soviet Union. He supports advanced nuclear reactor programs and serves as the US observer to an international committee of the Generation IV International Forum (GIF). He co-authored several books on topics related to advanced technology including *The Intelligent Wireless Web* (Addison-Wesley, 2002), *Developing Semantic Web Services* (A. K. Peters, 2004) and *Connections: Patterns of Discovery* (John Wiley and Sons, 2008).

DR. SMITH'S EMPLOYMENT HISTORY:

- U.S. NAVAL POSTGRADUATE SCHOOL, Monterey, CA, 2004 to Present. Positions: Lawrence Livermore Chair Professor (2004 to 2010) and Research Professor of Physics (2010 to Present).

- LAWRENCE LIVERMORE NATIONAL LABORATORY, Livermore, CA, 1997 to 2011. Positions: Nuclear Energy Project Leader, Deputy Associate Director, & Fission Energy Program Leader.
- BOOZ•ALLEN & HAMILTON INC., San Francisco, CA, 1994 to 1997. Position: Principal, Civil Programs Team. Directed work in environmental security, safety, quality assurance and business management in the western U.S. and the Pacific.
- SCIENCE APPLICATIONS INTERNATIONAL CORPORATION (SAIC), PLEASANTON, CA, 1981 to 1994. Positions: Vice President and Operations Manager responsible for an R&D organization of 100 staff members conducting energy and environmental projects involving the nuclear fuel cycle, waste management, environmental compliance and safety analysis.
- LAWRENCE LIVERMORE NATIONAL LABORATORY, Livermore, CA, October 1979 to March 1981. Position: Research Scientist in environmental and nuclear risk assessment, and low-level radioactive waste disposal. He also performed probabilistic risk analyses for the Nuclear Test program.
- U.S. ARMY Commissioned Officer, Fort Ord, CA, Fort Hunter-Liggett, CA, and Camp Smith. HI, October 1975 to 1979 (and continuing to 2000 in the US Army Reserve). Served as communications-electronics officer in the Army's Seventh Division and as Instrumentation Development engineer for the Combat Developments Experimentation Command. As an Army Reserve Officer, he served as Nuclear/Special Plans Officer for the Commander-in-Chief, US Pacific Command (CINCPAC) from 1981 to 2000.

Dr. Chip Martin, PhD

Dr. Martin is Director of Nuclear Operations for National Security Technologies at the Nevada National Security Site (NNSS). In this role, he is responsible for the safe, compliant and efficient operation of all nuclear operations and activities at the National Nuclear Security Site in Nevada. He leads four divisions: Compliance & Surety, Nuclear Services, Nuclear Safety, and High Hazard & Nuclear Facilities.

Prior to joining NSTec, Dr. Martin was a Senior Engineer with the Defense Nuclear Facilities Safety Board where he reviewed the safety bases for nuclear explosive operations at the Pantex Plant and Stockpile Stewardship activities at Los Alamos National Laboratory, Lawrence Livermore National Laboratory, and the Sandia National Laboratories. Dr. Martin was a recipient of the John W. Crawford, Jr. Award, presented for the most valuable individual contribution to the work of the Board.

Before joining the Board, Dr. Martin worked in the Air Force Secretariat as a Nuclear Weapon Development Officer and as a Nuclear Research Officer. Prior to that, he held the following positions: Program Manager for the Joint Department of Defense/Department of Energy Thermionic Space Reactor Program, Technical Director for several underground nuclear weapon tests, and Assistant Professor of Mathematics at the U.S. Air Force Academy.

He is active in the American Nuclear Society, ASME, and IEEE. He serves on the Main Committee of the ASME Nuclear Quality Assurance Committee and is a Fellow of the Washington Academy of Science.

He received his Ph.D. in Nuclear Engineering from the Air Force Institute of Technology in 1983.

Steven P. Curtis

B.S. Electronics Engineering, University of Nevada, Las Vegas, 1985

M.S. Health Physics, University of Nevada, Las Vegas, 2004

Program Developer, University of Nevada, Las Vegas, Harry Reid Center, 2006-2012.

Worked with cyber security, radiochemistry, engineering and other science-related projects to coordinate national security work with the Nevada National Security Site and DOE National Laboratories. Instituted the collaboration that led to the current grant program with NSTec. National Security Program Manager for the Center. Completed the testing of the Varian K-9 X-ray system for nonproliferation and counterterrorism applications, served as lead coordinator for cyber security development programs for the National Laboratory support effort to the US Government as the UNLV representative to the Oak Ridge National Laboratory consortium, and served as the liaison official to NSTec, DRI, and UNR.

Nuclear Weapons Verification Officer, Emergency Management Division, US Department of

Energy, Nevada Operations Office, 1991-1996. Conducted operations on the Nevada Test Site required for Soviet scientists to verify the yield of nuclear tests under the Threshold Test Ban Treaty. These operations required the interaction of National Laboratory weapons scientists, military treaty oversight teams, Soviet scientists resident on the Nevada Test Site, logistical support elements and operations controllers. Responsibilities included development of deployment strategies and implementation of scientific procedures to both verify Soviet tests and to allow Soviets to verify U.S. tests. Extensive post-test technical equipment inspections were part of the span of operational implementation.

Military Officer – United States Army, United States Army Information Systems Command, Worms, Germany and Nevada Army National Guard, Las Vegas, Nevada, **1985-1989 (Active),**

1981-1985, 1989-1994 (National Guard). Served an active duty tour as a communications engineer for strategic communication systems throughout Europe. Commanded a unit of technical evaluation soldiers responsible for the renovation and constant operations of all strategic communication systems within the European Theater. As a National Guard Armor Officer, commanded Headquarters and Line Armor Companies for five years in Nevada.

Staff Scientist, Environmental Protection Agency, Las Vegas Office, **1981-1985. Conducted radiological monitoring and field radiological missions in support of the Nevada Test Site Nuclear Weapons Testing program.**

Ronald Fraass, Master of Nuclear Engineering & Nuclear Weapons Effects

Retired Director, National Center for Radiation Field Operations (NCRFO), US EPA, Las Vegas, NV, May 2011 – Apr 2016.

As NCRFO Director, Ron Fraass was responsible for leading and managing the Center's national response to radiation incidents and accidents for the EPA as well as support to Tribal Nations for environmental monitoring.

NCRFO is an essential component of EPA's [Radiological Emergency Response Team \(RERT\)](#) and key to EPA's response to radiological emergencies and accidents nationwide. NCRFO:

- Coordinates RERT field capabilities for preparedness planning, working with the [Office of Emergency Management](#), Regional emergency response programs, and the Agency's Special Teams;
- Assesses sites contaminated with radioactive material,
- Manages all of the field resources of the [Office of Radiation and Indoor Air](#), such as on-site monitoring and communications equipment,
- Provides training on field radiological emergency response operations to EPA staff, states, tribes, local organizations and other federal agencies.
- Assists tribes in developing and maintaining environmental expertise through the Tribal Air Monitoring Support (TAMS) Center.

Mr. Fraass is also a prior Director of the National Air and Radiation Environmental Laboratory (NAREL). Located on Maxwell Air Force Base, Montgomery, Alabama, NAREL provides radiological monitoring data to support rulemaking and radiological emergency response activities. The Environmental Radiation Ambient Monitoring System is the only nationwide environmental radiation monitoring network in the United States. NAREL also supports Superfund and enforcement activities with laboratory and field measurements and technical assistance for radioactive and hazardous chemical (mixed waste) contaminants.

Ron Fraass is a graduate of the Air Force Institute of Technology's Nuclear Engineering program. That program is unique in the nation because it focuses on the technologies associated with the effects of nuclear weapons. Areas of study include counter proliferation, nuclear forensics, neutron transport, and radiation detection.

USAF Retired Colonel Robert E. Frank's Background

Business manager retired to Henderson, NV since 2004. Volunteer Chair, Citizen Task Force for Voter Rights, Leader, NV Secure The Grid Coalition, and Leader NevadansCAN Network. NV Governor appointed to Nevada Homeowner Association Commission for 2012-2015.

56 years of continuous management experience--34 civilian and 22 military. Primary positions were in systems integration, logistics, supply, contracting and secure information systems.

Dept. of Energy R&D Software Development Leader: By-name selected by Lawrence Livermore National Laboratory to be its first Chief Scientist for E-Commerce. Served as a founding CommerceNet.com Consortium leader that pioneered business use of the Internet.

Fortune 500 Executive & Internet Product Developer: Successful profit and loss Division Executive Director for Control Data Corporation. Division products delivered to global customers included micro, mini, mainframe and supercomputer systems and services.

Air Force Military Officer: Retired USAF Colonel in 1985 with 22 years active service. Served in key Supply, Procurement, Computers and Logistics positions in the US, Europe and Asia for 4 Air Force Major Commands, USAF Air Staff (Pentagon), Defense Logistics Agency, and NATO.

Small Business: Founder and CEO for 8 years in Northern California prior to retirement to Henderson, NV of a secure transaction-translation exchange services company using private and public Electronic Data Interchange (EDI) formats in secure internet email. Leading customers included Wells Fargo Bank, VISA International and Fidelity Investments.

Education: Oklahoma University Bachelor of Business Administration degree with chemistry minor (BBA). US Air Force Commission through AFROTC. Auburn University Master of Business Administration (MBA) degree with emphasis in marketing. Advanced military science graduate of year-long programs for the "*Air Command and Staff College*" and senior-level "*Air War College*". Graduate of NATO Joint Warfare Program at Old Sarum, England.