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SANDIA NATIONAL LABORATORIES

Expert Sources

Reporters may reach these experts by calling Sandia's Media Relations Dept. at (505) 844-4902 to request an interview. Most of the experts are based in Albuquerque, N.M., unless otherwise noted.

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BATTERY ABUSE TESTING LABORATORY

Chris Orendorff is the team leader for Sandia's Battery Abuse Testing Laboratory, the nation's leading source for determining the safety and reliability of electric-car batteries.

BIOFUELS (LIVERMORE, CALIF.)

Blake Simmons, senior manager of the Advanced Biomanufacturing group and the Biomass Program manager at Sandia, also is chief science and technology officer of the Joint BioEnergy Institute in Emeryville, Calif., a Department of Energy Bioenergy Research Center. He is an expert in lignocellulosic and algal biofuels, especially in conversion technologies for advanced "drop-in" biofuels, lifecycle analysis and techno-economic modeling.

Ben Wu, manager of the Biomass Science and Conversion Technology department, leads the algae program at Sandia. He has expertise in biochemical and thermochemical biomass conversion technologies.

BIOLOGICAL AND CHEMICAL SECURITY

Reynolds "Ren" Salerno established Sandia's International Biological Threat Reduction program in 2000 and leads Sandia's Biological Sciences and Technologies group. One of the world's leading authorities on chemical and biological threats, Salerno also worked with the World Health Organization and other international organizations to establish global standards and educational curriculum on laboratory safety, security and biorisk management.

Jennifer Gaudio leads Sandia's International Biological and Chemical Threat Reduction Program, and is the co-author of the *Laboratory Biosecurity Handbook*, which has become the recognized standard in biosecurity. She also heads Sandia's OIE Collaborating Centre for Laboratory Biorisk Management.

CLIMATE CHANGE

Mark Boslough specializes in the assessment of

potentially catastrophic risks, including asteroid impacts and climate change.

Mark Ivey, a specialist in atmospheric measurements and the Arctic climate, manages climate research facilities for the Department of Energy in Alaska.

COMBUSTION RESEARCH FACILITY (LIVERMORE, CALIF.)

John Dec, an engine researcher and senior scientist at the Combustion Research Facility, is a renowned expert on low-temperature gasoline combustion, including Homogeneous Charge Compression Ignition.

Craig Taatjes, manager of the Combustion Chemistry department, researches fundamental flame chemistry and the kinetics of elementary reactions that are important in combustion.

CYBERSECURITY

Robert Hutchinson is the senior manager of Cybersecurity Research & Development at Sandia.

Susanna Gordon, manager of the Informatics and Systems Assessments department, is an expert on cybersecurity test and evaluation, data sciences and cyber threat analysis.

Keith Vanderveen manages the Scalable and Secure Systems Research department and leads cybersecurity R&D. He is an expert on emulation of large-scale networks and quantum key distribution and communications.

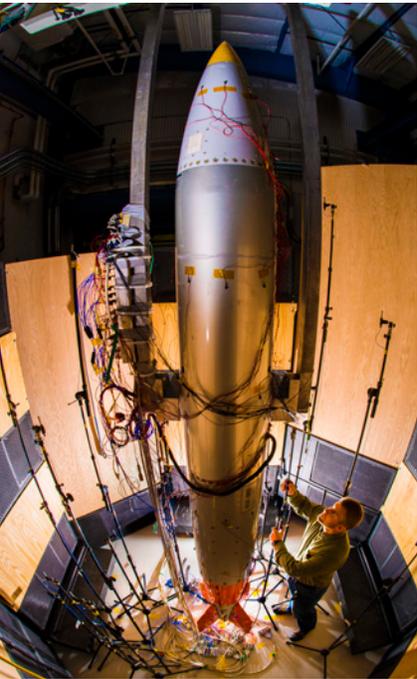
GLOBAL SECURITY SYSTEMS

Pablo Garcia, program manager for Global Nuclear Security, leads a broad portfolio of programs in international nuclear security and safeguards.

HYDROGEN TECHNOLOGIES (LIVERMORE, CALIF.)

Daniel Dedrick manages the Hydrogen and Combustion Technologies group at Sandia and is responsible for the Hydrogen and Fuel Cells Program.

Brian Somerday is a world-leading material scientist with expertise in the area of hydrogen embrittlement of materials. Somerday leads national



and international programs focused on structural materials for hydrogen applications.

Chris San Marchi leads Sandia's Hydrogen Safety Codes and Standards program and provides research and development leadership to support the development of meaningful codes, standards and regulations for energy applications.

LIQUID NATURAL GAS

Mike Hightower is a civil and environmental engineer who researches liquefied natural gas safety and security, energy and water interdependencies, water resources and water treatment, the smart grid and microgrids.

MEMS

Keith Ortiz is the manager of Sandia's Micro Electro Mechanical Systems Technologies department, which performs research and development toward advanced MEMS devices.

METEORS

Dale Jackson researches ground- and space-based observations of meteors.

MICROSYSTEMS AND NANODEVICES

Wahid Hermina, a senior manager in the Microsystems Science & Technology and Components Center, manages research in microsystems and nanodevices. He has expertise in the underlying phenomena enabling behavior at the microscale and nanoscale.

NANOTECHNOLOGY (LIVERMORE, CALIF.)

François Leonard specializes in nanoelectronics and nanophotonics, particularly carbon nanotubes, nanowires and metal-organic frameworks, with applications in next-generation electronics and photodetectors.

RENEWABLE ENERGY & SMART GRID

Abraham Ellis, a researcher in the area of distributed resources and renewable energy integration into the power system (including grid and microgrids), has expertise in testing, demonstration, modeling, analysis and standards.

ROBOTICS

Jon Salton of the Intelligent Systems, Robotics and Cybernetics group researches robotics, intelligent systems, miniature electromechanical systems and actuators, and advanced and multimodal mobility.

SOLAR FUELS

Tony Martino leads Sandia's solar fuels program which develops high-efficiency production pathways

for hydrogen and synthetic hydrocarbon fuels from concentrating solar technology, carbon-dioxide and water.

SOLAR POWER

Clifford K. Ho works on Sandia's concentrating solar power program in the areas of high-temperature receivers, collectors and optics.

Subhash L. Shinde manages the Concentrating Solar Power (CSP) group researching and developing collector technologies, including large-scale optical metrology, receivers, thermal storage, CSP hybridization and related areas. He also is a well-known expert in advanced materials science and nanoscale thermal transport.

Joshua S. Stein conducts multidisciplinary research on the variability and performance of photovoltaic energy systems with the aim of breaking barriers for the integration of renewable energy sources onto the nation's electrical grid.

SOLID-STATE LIGHTING

Jerry Simmons, laboratory fellow, initiates and guides programs in basic materials science and semiconductor device physics.

Mike Coltrin researches the growth of semiconductor materials with applications to solid-state lighting.

Jeff Tsao, internationally recognized as a pioneer and leader in SSL, works on integrated science, technology and economic modeling in solid-state lighting.

WATER

Vincent Tidwell is a hydrologist with experience in water resource modeling, resource planning, water-energy-land interdependences and climate impacts on humans and infrastructure.

Z MACHINE AND HIGH ENERGY DENSITY SCIENCE

Daniel Sinars received a 2011 Presidential Early Career Award for Scientists and Engineers for his research on Sandia's unique Z pulsed power facility. He oversees research on inertial confinement fusion and other high energy density (HED) science work. HED and fusion physics encompass laboratory research on extreme states of matter at pressures a million times greater than atmospheric pressure, typically achieved for only a few billionths of a second in specialized facilities like Z.



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