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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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ASTEROID IMPACTS

Mark Boslough specializes in the assessment of catastrophic risks from asteroid impacts and climate change.

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, a senior manager in the Biofuels & BioMaterial Science and Technology department at Sandia, also serves as vice president of deconstruction at the Joint BioEnergy Institute, a Department of Energy bioresearch facility in Emeryville, Calif.

Todd Lane, a research scientist, is an expert on molecular microbiology, phycoecology, host pathogen interactions, protein science/proteomics, genomics, algal biofuels and biodefense.

BIOLOGICAL AND CHEMICAL SECURITY

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

Duane Lindner directs Sandia's Chemical & Biological National Security program, which researches the fundamental science of chemical and biological agents and technologies for their detection, medical diagnostics, decontamination and restoration.

Jennifer Gaudioso, head of Sandia's International Biological Threat Reduction Program, is the co-author of the *Laboratory Biosecurity Handbook*, which has become the recognized standard in biosecurity.

Nancy Jackson, head of Sandia's International Chemical Threat Reduction Department and a recent president of the American Chemical Society, collaborates globally with governments, universities and industry on chemical safety and security in conjunction with the U.S. State Department.

CARBON NANOTUBES (LIVERMORE, CALIF.)

François Leonard specializes in electronic transport in nanostructures, particularly carbon nanotubes, and is the author of the 2009 book, *The Physics of Carbon Nanotube Devices*.

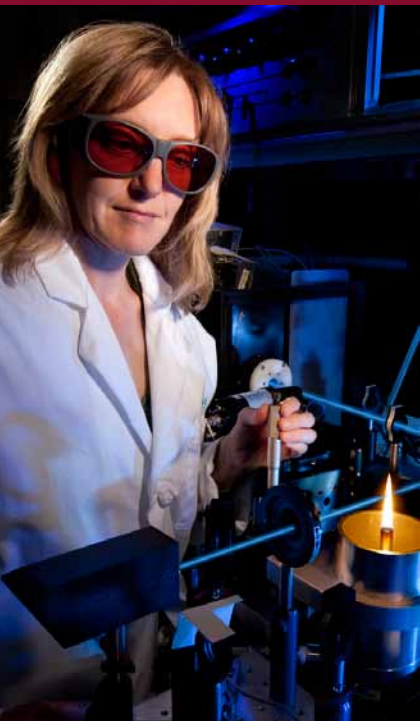
CLIMATE CHANGE

George Backus, who researches the international socioeconomic consequences of climate change and uses sophisticated methods to quantify the uncertainty surrounding climate change impacts, recently completed a state-by-state report on the estimated financial effects of climate change from 2010-2050.

COMBUSTION RESEARCH FACILITY (LIVERMORE, CALIF.)

John Dec, an engine researcher and senior scientist at the Combustion Research Facility, is a renowned expert on homogeneous charge compression ignition (HCCI) engines.

Craig Taatjes, a combustion chemist at the Combustion Research Facility, researches fundamental flame chemistry and the kinetics of elementary reactions that are important in combustion.



GLOBAL SECURITY SYSTEMS

Bill Rhodes, senior manager of the International Security Systems group, leads a broad portfolio of programs in physical security for Sandia.

HYDROGEN TECHNOLOGIES (LIVERMORE, CALIF.)

Lennie Klebanoff was recently director of the Department of Energy's Metal Hydride Center of Excellence and leads efforts to develop advanced solid-state hydrogen storage materials. He also is Sandia's lead for DOE Fuel Cell Market Transformation activities and Extreme Ultraviolet Lithography Technologies.

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

Ernest Garcia has forged links between Sandia and microelectromechanical programs in Mexican universities to aid the Mexican economy and improve U.S. security.

METEORS

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

RENEWABLE ENERGY

Abraham Ellis, a renewable energy systems researcher, is an expert in grid integration of solar and wind generation on the power grid.

Tony Martino, manager of the Materials, Devices and Energy Technologies Department, oversees the Sunshine to Petrol (S2P) program.

SOLAR POWER

Clifford K. Ho currently works on Sandia's concentrating solar power program and has been instrumental in projects involving nuclear waste management, environmental remediation, microchemical sensors for environmental monitoring, water treatment and distribution.

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.

Charles Hanley and Jennifer Granata are recognized leaders in the field of photovoltaic systems performance and reliability.

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, deputy director for semiconductor and optical sciences at the Center for Physical, Chemical, and Nano-Sciences, oversees basic materials science and optoelectronic device physics.

Mike Coltrin, director of Sandia's Energy Frontier Research Center on Solid-State Lighting (SSL) Science, researches the growth of semiconductor materials with applications to SSL.

Jeff Tsao, chief scientist of Sandia's Energy Frontier Research Center, works on integrated science, technology and economic modeling in solid-state lighting.

SMART GRID

Ross Guttromson, manager of Sandia's Energy Storage and Transmission Analysis Department, is an expert on the smart grid.

WATER

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

Z MACHINE

Mark Herrmann oversees high energy density and inertial confinement fusion research involving Sandia's unique Z-facility.



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