



Andrew McIlroy

Integrated Security Solutions Associate Laboratories Director

As Associate Labs Director for Integrated Security Solutions, Andrew McIlroy provides leadership and management direction for Sandia's California Laboratory, including Livermore Valley weapon systems and component engineering. He also holds primary responsibility for Sandia's Energy & Homeland Security (E/HS) portfolio, encompassing activities in California, New Mexico, Texas, Alaska, and beyond.

Previously, as Director of the E/HS Program Management Center and Deputy Associate Labs Director for Integrated Security Solutions, Andy led business operations for Integrated Security Solutions and managed Sandia's E/HS portfolio.

Andy's Sandia career began in 1991 as a Combustion Research Facility postdoctoral researcher. He joined The Aerospace Corporation in 1993 and returned to Sandia in 1997 as a technical staff member in the Combustion Chemistry and Diagnostics Department. Andy served as Manager for both the Combustion Chemistry and Diagnostics and the Reacting Flows Research departments, Senior Manager for Chemical Sciences, and Acting Director of the Materials Science Center.

As Senior Manager for Livermore Valley Open Campus (LVOC) Development, Andy developed the physical and operational infrastructure for LVOC, a joint initiative of Sandia and Lawrence Livermore National Laboratory to create an accessible, common campus to foster domestic and international partnerships with industry and academia. Andy also created programs to take advantage of the LVOC.

Andy became Senior Manager for Science-Enabled Engineering and led Verification and Validation for Sandia's Advanced Simulation and Computing Program. As Deputy Chief Technology Officer for Sandia and Director of Research Strategy and Partnership, Andy led Sandia's Laboratory Directed Research and Development Program, academic and industrial partnerships, and tech transfer programs.

Andy has a bachelor's degree in chemistry with honors and distinction from Harvey Mudd College and a PhD in chemical physics from the University of Colorado. He co-chaired the Department of Energy's Basic Research Needs Workshop for Clean and Efficient Combustion of 21st-Century Transportation Fuels, coordinated the DOE Workshop on Predictive Simulation for Internal Combustion Engines, and has authored 40 peer-reviewed journal articles. He is a California Council on Science & Technology board member.

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