

ENERGY AND GLOBAL SECURITY INITIATIVES AT ARGONNE NATIONAL LABORATORY



DR. BALENDRA SUTHARSHAN

CHIEF OPERATIONS OFFICER



A VITAL PART OF THE DEPARTMENT OF ENERGY NATIONAL LABORATORY SYSTEM





ARGONNE BY THE NUMBERS (FY17)



Argonne





ARGONNE DELIVERS HIGH-IMPACT SCIENCE

Broad capabilities ...

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Discovery in materials, chemistry, physics and biology		Engineering of advanced energy systems		Computation and analysis			Scientific user facilities
				enat	ole transformat	ional r	esearch initiatives
Hard x-ray sciences	Advanced computing		Materials and chemistry		Energy manufacturin science and engineering	ng d	The universe as our laboratory



OUR INITIATIVES WILL MAKE A DIFFERENCE IN THE WORLD





USER FACILITIES



Advanced Photon Source Argonne Tandem Linear Accelerator System Argonne Leadership Computing Facility Center for Nanoscale Materials Atmospheric Radiation Measurement – The Southern Great Plains



KEY DIRECTORATE LEVEL EMPLOYEES

Balendra Sutharshan Chief Operations Officer

Keith Bradley National Security Program

Santanu Chaudhuri Manufacturing Science and Engineering

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Pete Chupas Argonne Design Works









DIVISION NAMES AND LEADERSHIP

Applied Materials Greg Krumdick, Interim Division Director

Strategic Security Sciences Kirsten Laurin-Kovitz, Interim Division Director

Nuclear Science and Engineering Jordi Roglans-Ribas, Division Director

Chemical and Fuel Cycle Technology Jordi Roglans-Ribas, Interim Division Director

Energy Systems Don Hillebrand, Division Director

Decision and Infrastructure Science Dave Brannegan, Interim Division Director

Experimental Operations and Facilities George Vukovich, Interim Division Director













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Secure Energy Future

Cyber Security, Connected Autonomous Transportation **Future Electrical Grid**

Energy and Global Security Strategic Initiatives Energy Science and Technology

Applied Materials, Manufacturing Science, **Energy Storage**

Science Programs

Materials, Chemistry, Physics, HEP, NP, IME Capabilities APS, ALCF, CNM, MERF, EDL

Major Lab Initiatives

Hard X-ray Science, Advanced Computing, Advanced Materials & Chemistry

Nuclear Energy Science and Technology

Energy Manufacturing Science and Engineering

Industrial & Scalable

Technology

National Security Programs Securing Energy and Critical Resources

Argonne 🕰

ENERGY MANUFACTURING SCIENCE AND ENGINEERING MAJOR INITIATIVE

Create science-based approaches to accelerate the scaling of manufacturing processes for energy technologies



Provide national leadership in restoring American preeminence in manufacturing by applying science-based methods

Create Midwest manufacturing facility leveraging Argonne's basic science infrastructure in a major economic, academic, and industrial center of the country

Expand MERF capabilities and develop the Midwest Transformative Energy Manufacturing (MTEM) facility

Develop and scale new energy storage and energy transfer materials and devices



SECURING ENERGY AND CRITICAL RESOURCES



AS DEFARTMENT OF
Argonne National Laboratory is a
U.S. Department of Energy laborator
managed by UCsicago Argonne, LLC



ENERGY U.S. Department of Energy laboratory in a

Our partnerships



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