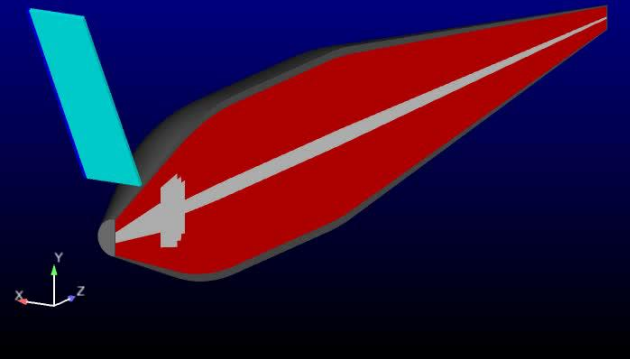


Exceptional service in the national interest

Time = 0.000 s 3 m/s



Opportunity for Collaboration

Jesse Roberts

Water Power Technologies

Sandia Sites

Albuquerque, New Mexico



Livermore, California



Kauai, Hawaii



*Waste Isolation Pilot Plant,
Carlsbad, New Mexico*



*Pantex Plant,
Amarillo, Texas*

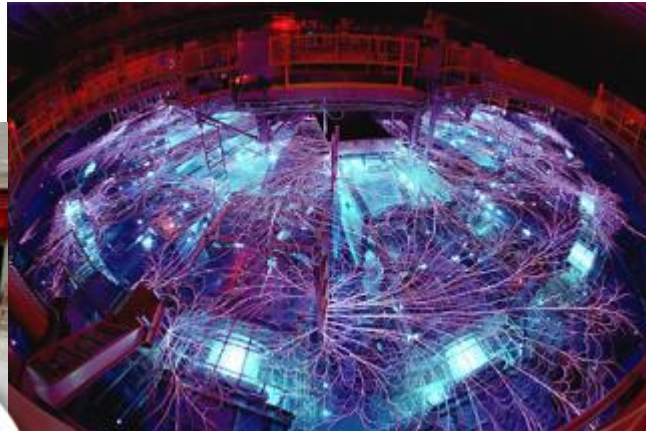


*Tonopah,
Nevada*



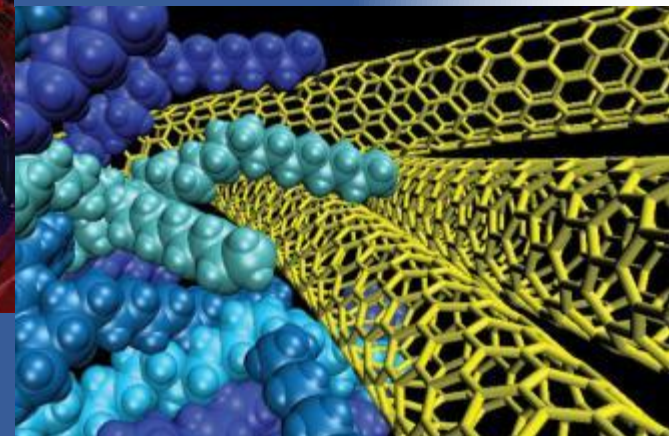
Strong Research and Engineering Foundation

Computing & Information Sciences

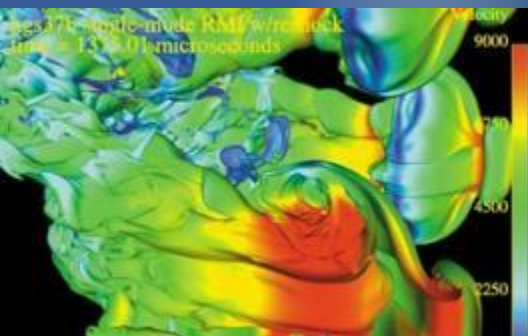


Radiation Effects & High Energy Density Science

Materials Sciences

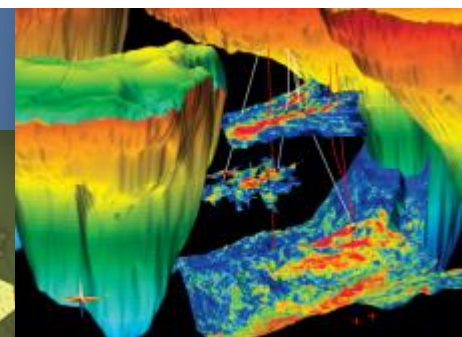
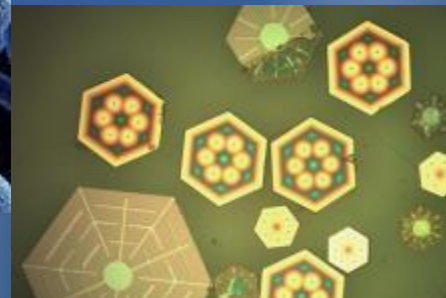


Engineering Sciences



Bioscience

Nanodevices & Microsystems



Geoscience

Energy & Climate

Energy Research

ARPAe, BES Chem Sciences, ASCR, CINT, Geo Bio Science, BES Material Science

Climate & Environment

Measurement & Modeling, Carbon Management, Water & Environment, and Biofuels

Renewable Systems & Energy Infrastructure

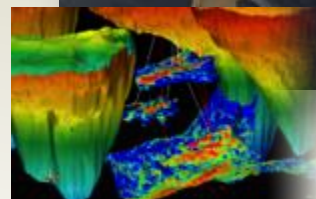
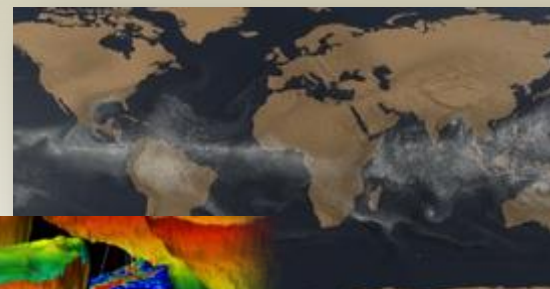
Renewable Energy, Energy Efficiency, Grid and Storage Systems

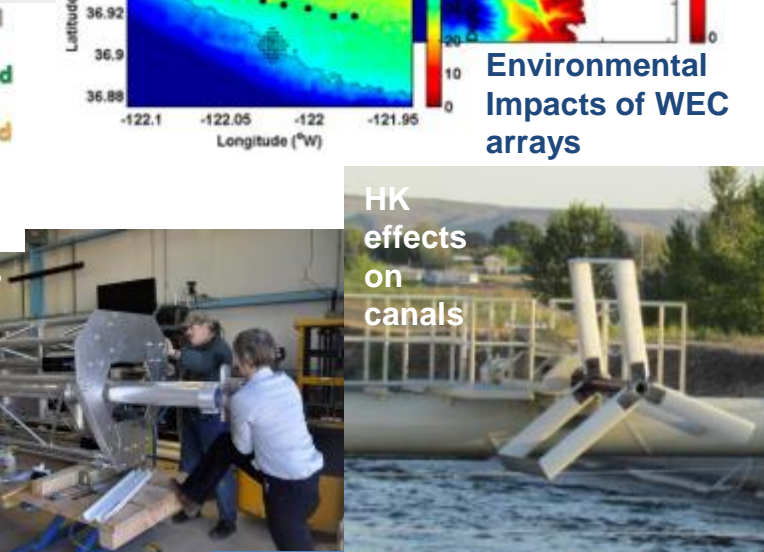
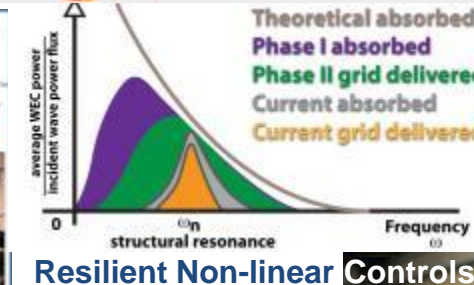
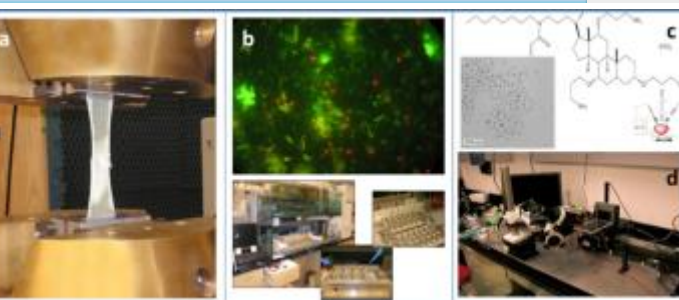
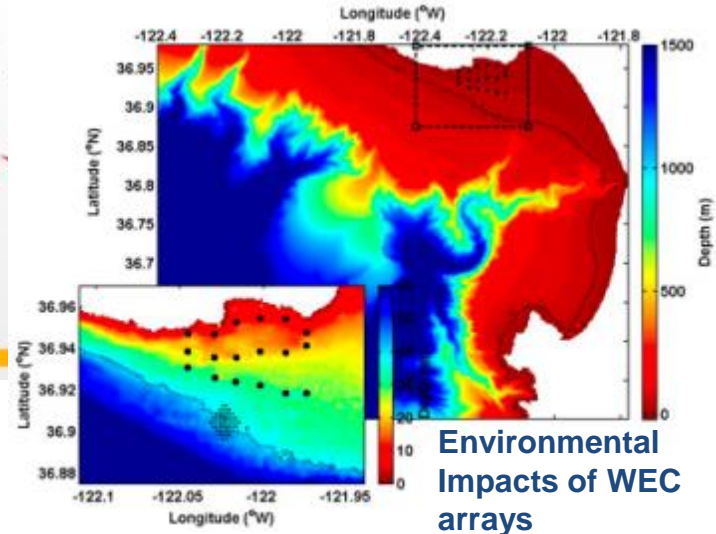
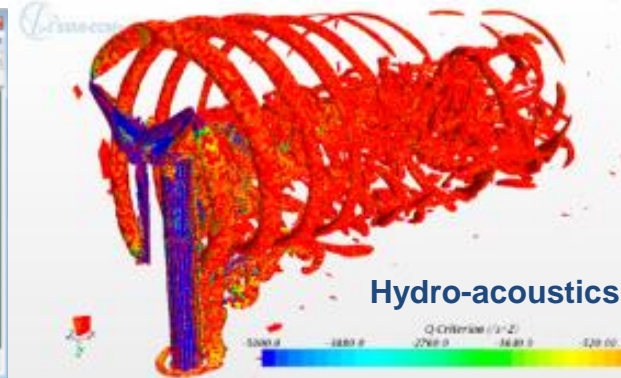
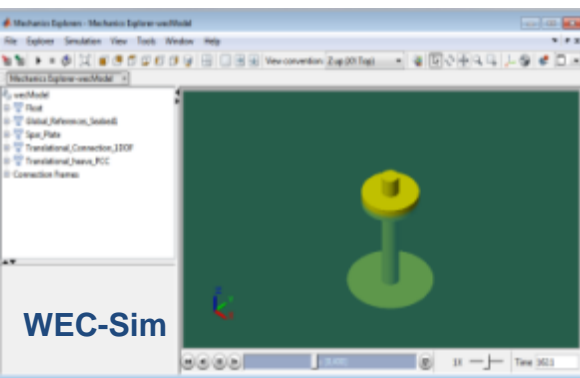
Nuclear Energy & Fuel Cycle

Commercial Nuclear Power & Fuel, Nuclear Energy Safety & Security, DOE Managed Nuclear Waste Disposal

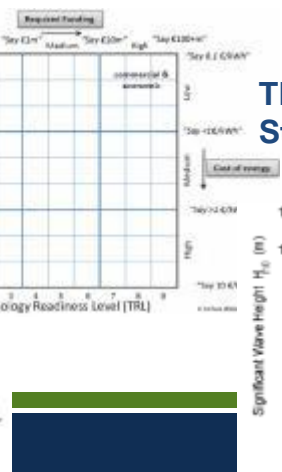
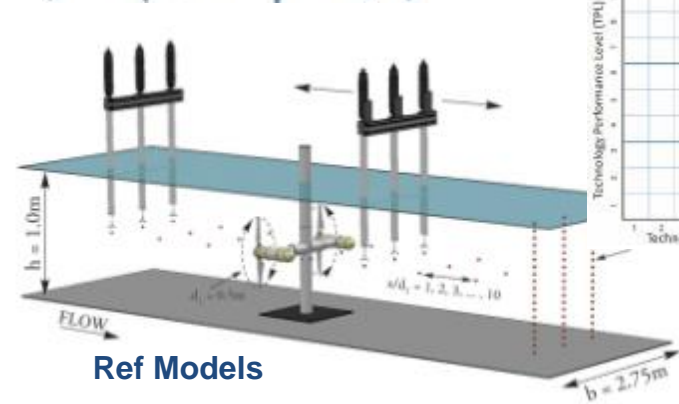
Transportation Energy & Systems

Vehicle Technologies, Biomass, Fuel Cells & Hydrogen Technology

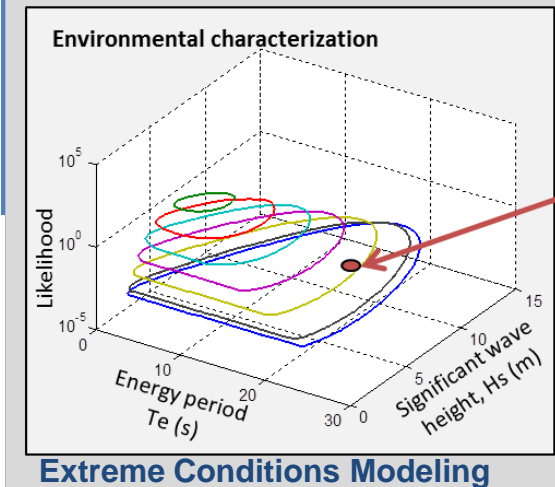
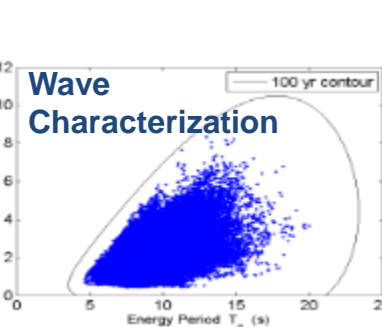




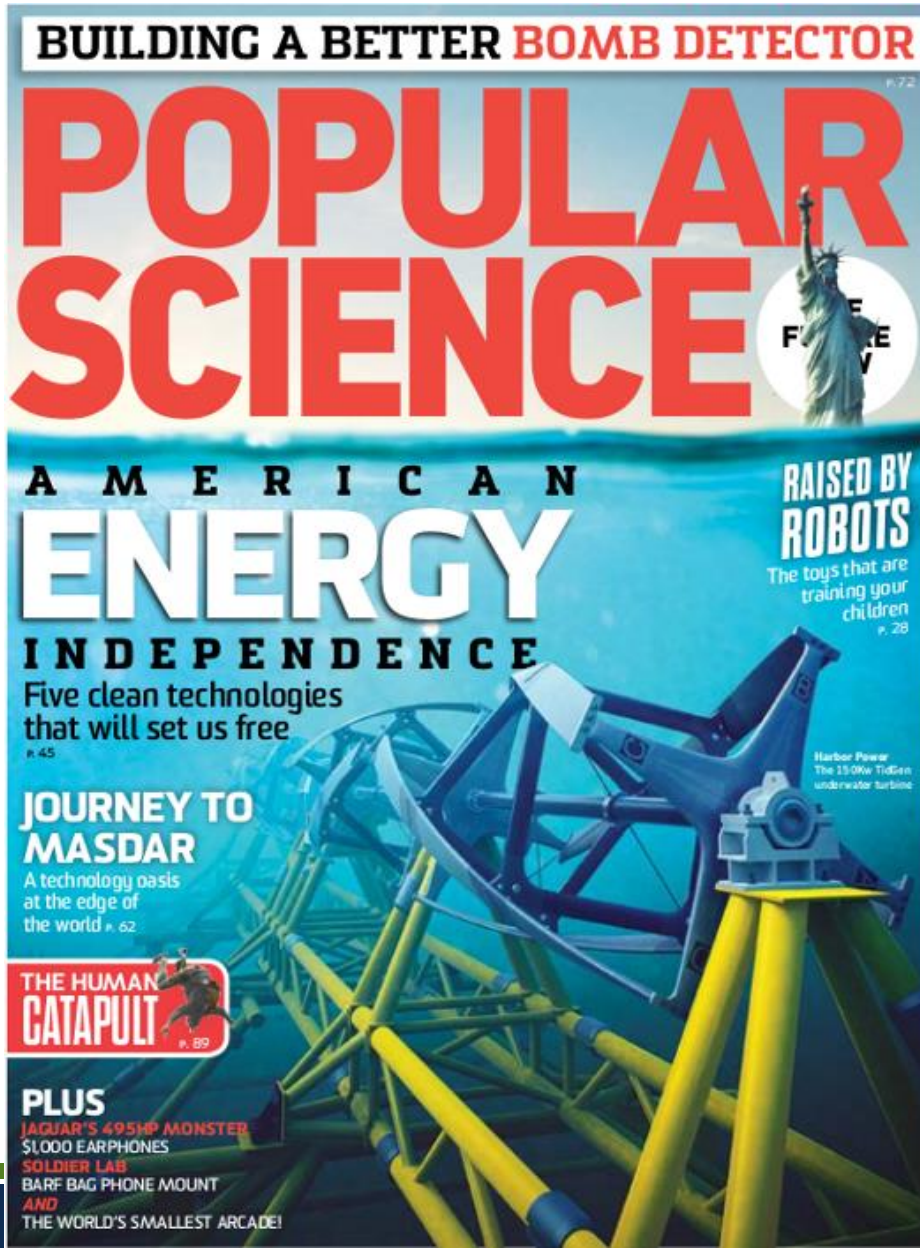
Structural Composites and Material Coatings



Structured Innovation



Recent Example of “SBV-like” Collaboration



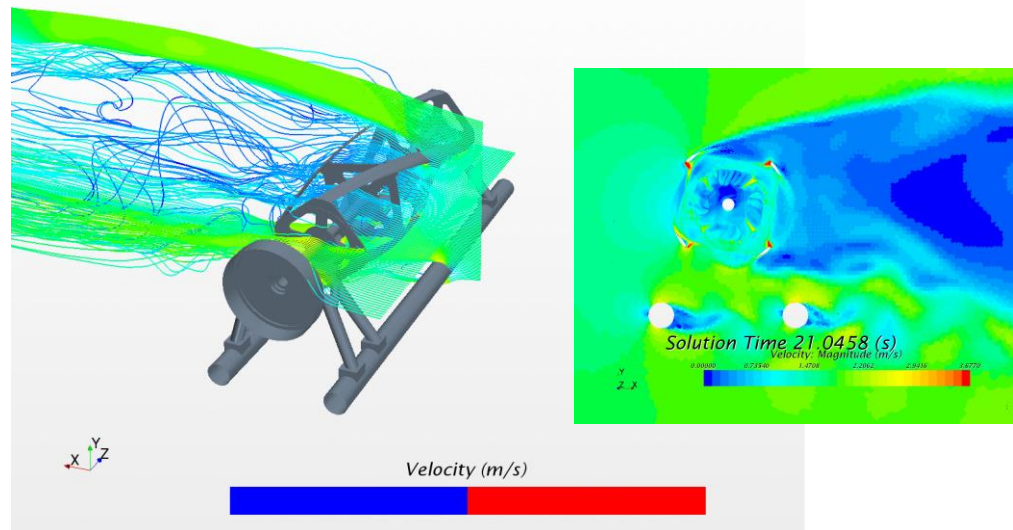
Field testing of ORPC's RivGen® prototype turbine was not matching performance values predicted from ORPC simulation

ORPC approached DOE/Sandia to identify the cause of the mismatch

Quick Leveraging of Existing Capabilities



Sandia leveraged HPC and expertise from past wind energy research



Identified fundamental simulation limitation,
ORPC now redesigning product

Photo courtesy of
Ocean Renewable Power Company

Summary

- The Small Business Voucher program provides the most direct mechanism to date for industry-national laboratory collaboration.
- Sandia has capabilities in technology development, resource characterization, and environmental impacts
- Contact for further information / discussion
 - Daniel Laird
 - Program Manager
 - Water Power Technologies
 - Marine Hydrokinetics and Hydropower*
 - Sandia National Laboratories
 - Albuquerque, NM, USA 87185-1124
 - (505) 844 6188
 - Daniel.Laird@sandia.gov