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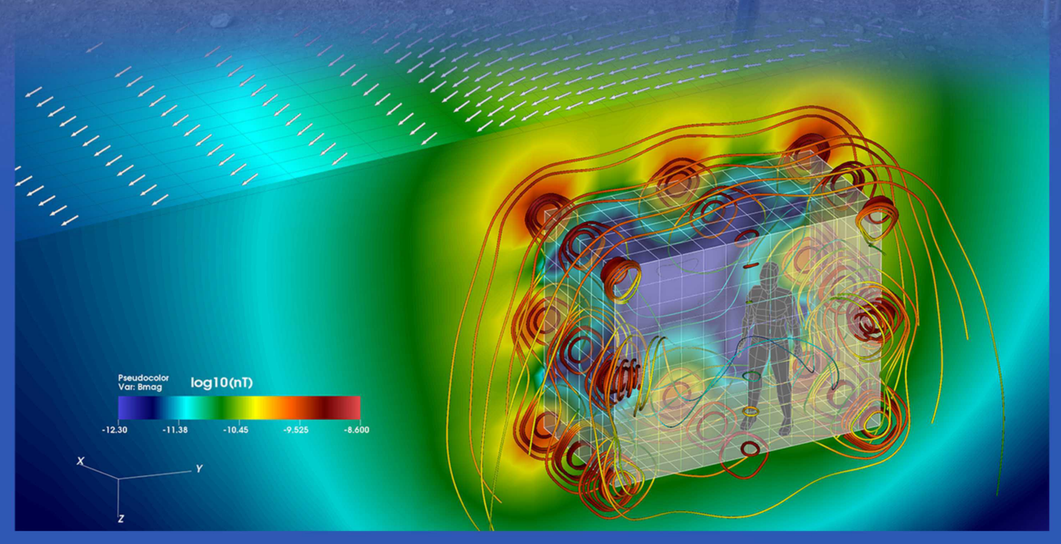

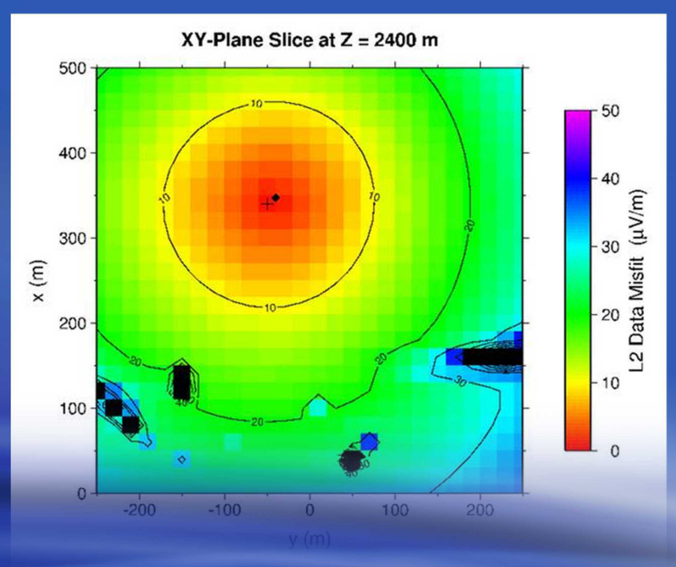

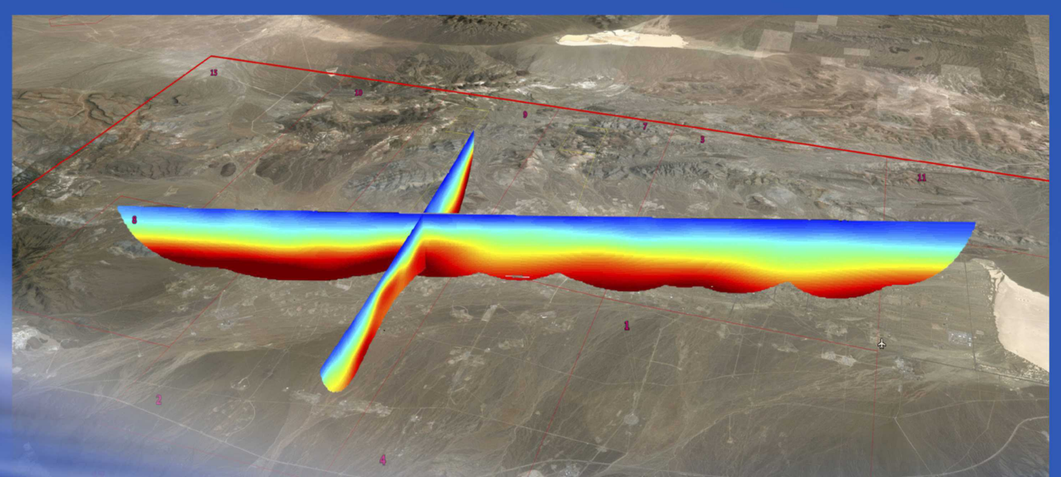

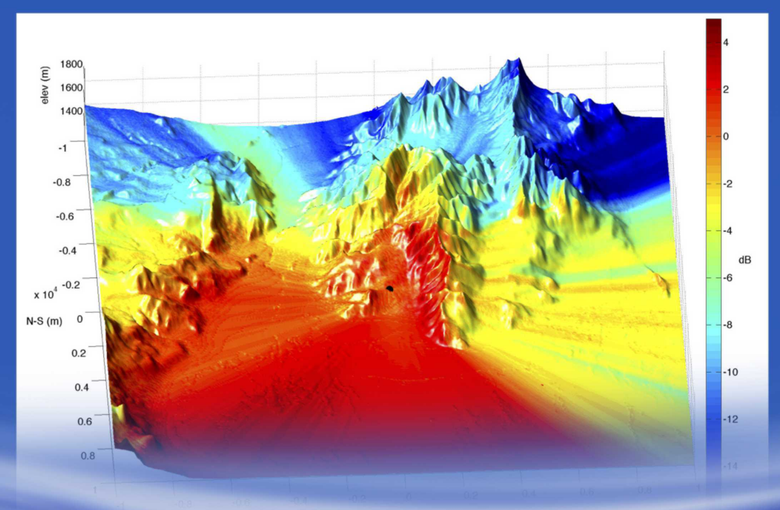

GEOPHYSICS DEPARTMENT 8861

KYLE JONES, MANAGER

Sandia National Laboratories' Geophysics Department develops and implements state of the art geophysical techniques for investigating, characterizing, and modeling the earth's atmosphere, surface, and subsurface. Our work addresses national-level problems in the areas of defense, energy, nuclear nonproliferation, climate, and homeland security. The department has expertise in seismology, electromagnetics, infrasound, and other novel geophysical sensing modalities, geophysical measurement hardware and sensors, experimental field work, and geophysical theory and computational modeling. This broad skill base enables us to address a wide variety of challenges ranging from theoretical and computational algorithm development and validation to technology design and evaluation, lab-scale experimentation, small- and large-scale field experiments, and data collection, analysis, and interpretation. Examples of our work include border security, rotational seismology, computational modeling and analysis of subsurface energy extraction technologies, unattended ground sensor development, design, implementation, and analysis of research-oriented geophysical field experiments. The department also manages and further develops the Facility for Acceptance, Calibration and Testing (FACT) site, a 500-acre field facility, whose primary mission is the testing and evaluation of geophysical sensors and systems used by the United States for underground nuclear explosion monitoring and characterization.

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