

Livermore Valley Open Campus

November 2013



Sandia National Laboratories



Lawrence Livermore
National Laboratory

November 2013

Open Campus

Fresh@theLabs

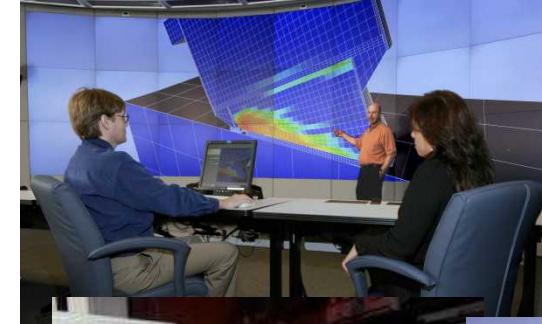


Sandia National Laboratories is a multi-program laboratory managed and operated by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corporation, for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-AC04-94AL85000.

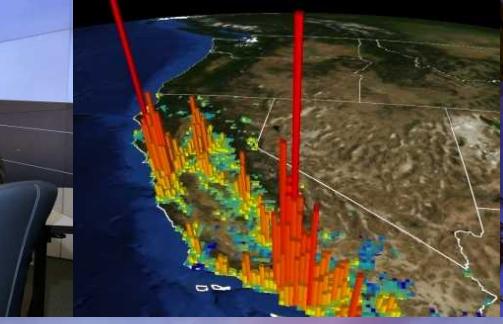
This work was performed under the auspices of the U.S. Department of Energy by Lawrence Livermore National Laboratory under Contract DE-AC52-07NA27344. Lawrence Livermore National Security, LLC

An Open Campus Enhances LLNL & Sandia's Ability To Meet Mission Objectives

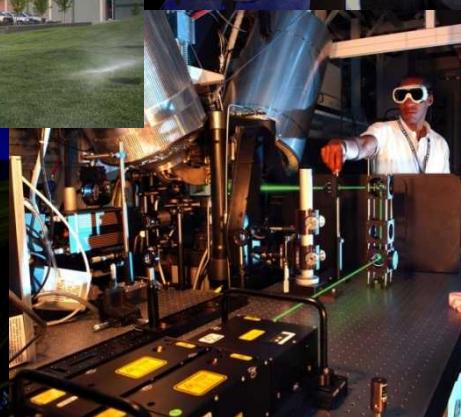
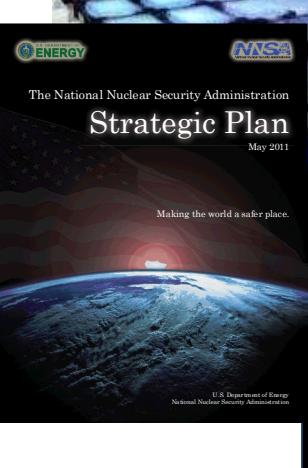
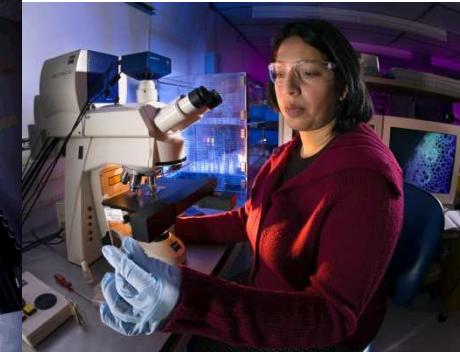
Our Missions



Strong Science, Technology & Engineering



Workforce Attraction



LVO: “Front Door” to Engage Industry and Academia

Open Campus Attributes

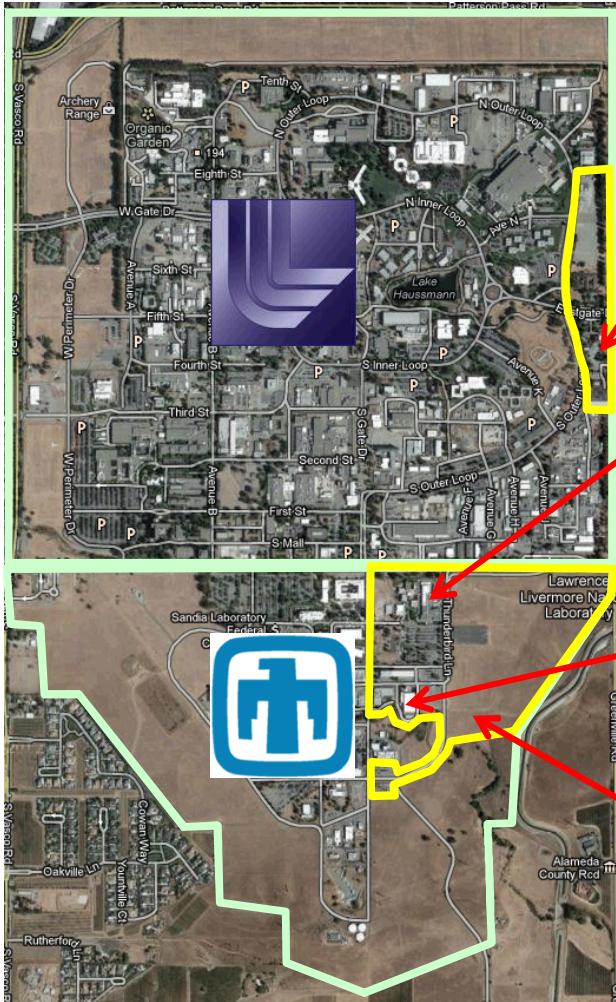
- Campus-like environment with collaborative space
- Ready access for all partners, including foreign nationals
- Expansion of academic programs
- Access to world-renown facilities and resources
- Synergistic with 4th Bay Area innovation node



LVOIC 30 Year Master Plan



LVOC Today



High
Performance
Computing
Innovation
Center



Combustion
Research
Facility



Cybersecurity
Technology
Research
Laboratory



Clean Energy
Demonstration
Field

L VOC Highlights for SNL

3232 visitors

243 events

Since
September 2010
opening

- Over 150,000 sq. ft. of office, laboratory and auditorium in L VOC at SNL
- Combustion Research Facility
- Cyber Technology Research Laboratory
- Clean Energy Demonstration Field established
- Cool Earth Solar demonstration underway
- Hosting Farmer's Markets for labs
- Developing new programs and administrative building: CREATE



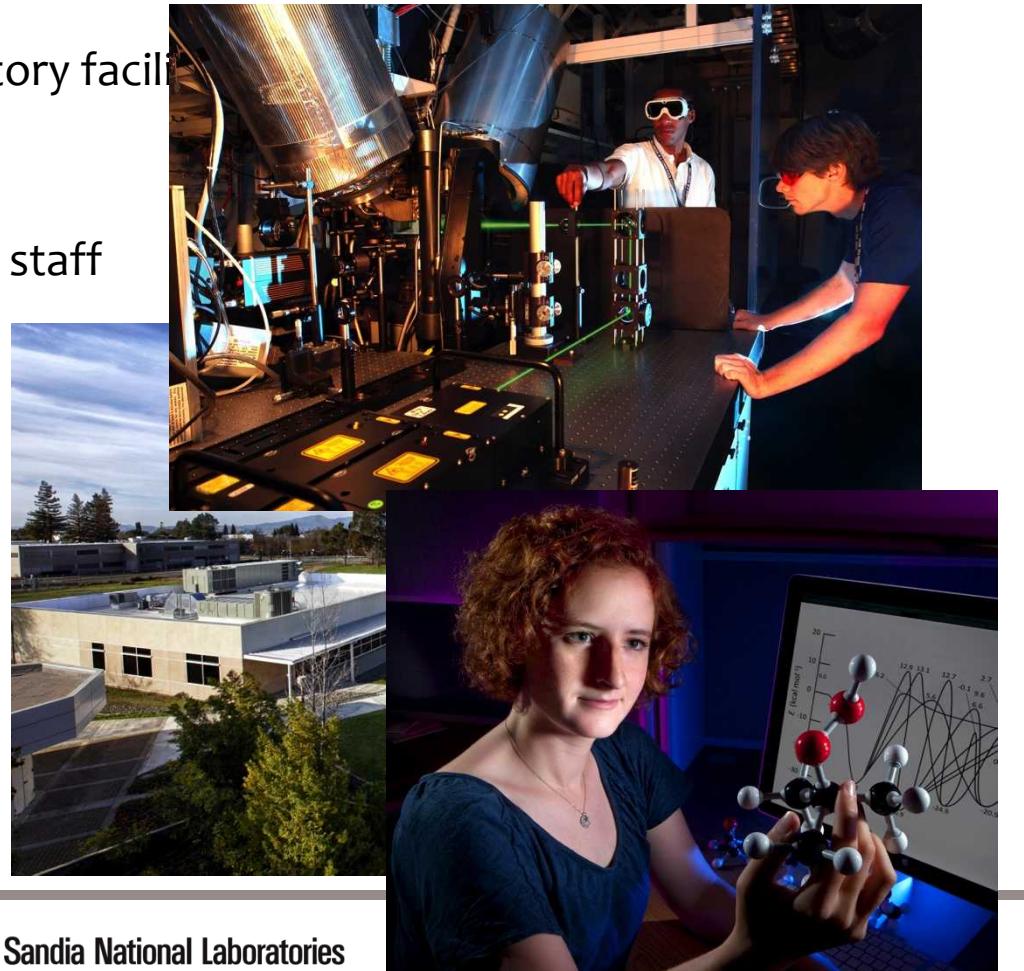
L VOC brings partnerships with state government, industrial development, and community outreach to the Livermore Valley

SNL/LVOC Anchor: Combustion Research Facility



**A DOE/BES Collaborative Research Facility dedicated to energy science
and technology for the twenty-first century**

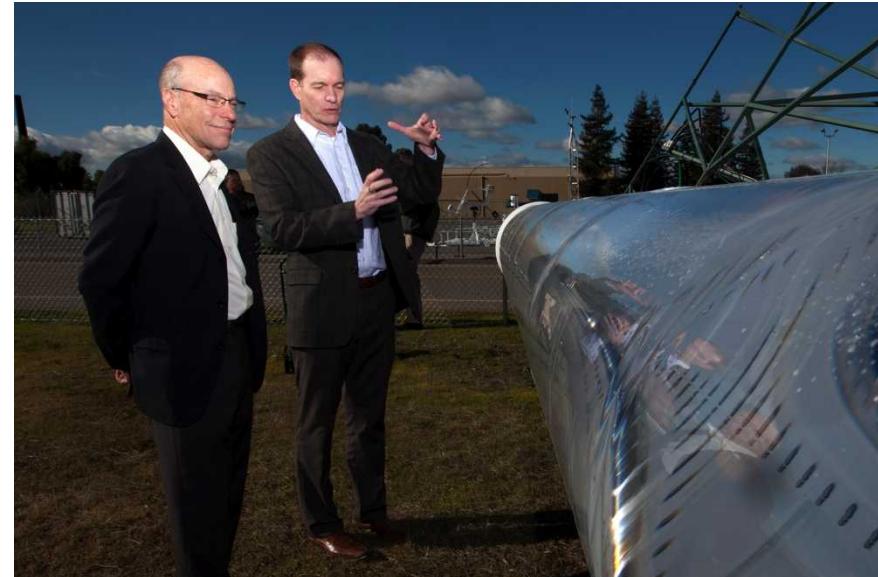
- 82,000-square-foot office and laboratory facility
- 36 highly specialized labs
- ~150 permanent and visiting research staff
- Keys to CRF's success:
 - Common scientific purpose
 - Collocation and collaboration
 - Strong ties to application
 - Full spectrum of basic to applied



SNL and Cool Earth Solar CRADA

- Cool Earth Solar founded by former SNL employees
- Livermore-based small business
- Developing novel, low cost solar technology
- SNL and CES signed 5 year CRADA to develop and demonstrate technology on 5 acres of LVOC
- Ribbon cutting February 20
- CES wins CEC grant for build-out of test field

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CIRI: Center for Infrastructure Research and Innovation

- Reduce risks and costs to encourage private industry to invest in hydrogen infrastructure
- Fuel cell vehicles highly developed, but not the fueling infrastructure
- Builds on and enhances GTS expertise
- Creating partnership with industrial gas suppliers, CA state, DOE and vehicle manufacturers
- First CIRI facility to be an LVOC research hydrogen fueling station

