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Title: CNLS Town Hall

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Intended for: Distribution to potential CNLS Director candidates

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CNLS Town Hall

Vacancy for the Center Leader for the Center for Nonlinear Studies

September 2, 2014

Jack Shlachter

Deputy Theoretical Division Leader

Presentation open to all
interested LANL employees

Strategic Centers: sustained visible excellence in science, technology and engineering



- Provide focus and integration for a broad intellectual community in support of Laboratory missions.
- Nucleate emerging new science ideas and initiate higher risk, high payoff science.
- Help the Laboratory achieve its strategic goals.



IMS - Materials



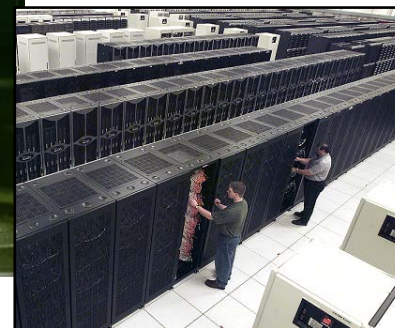
Engineering – human computer interface



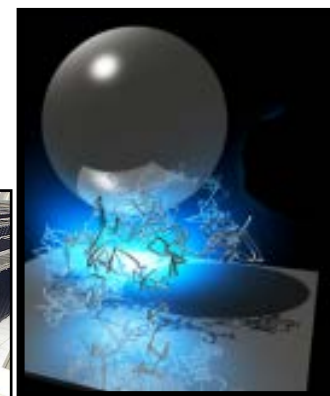
IGPPS - Climate



Seaborg - Actinides



ISTI – Big Data



CNLS - quantum



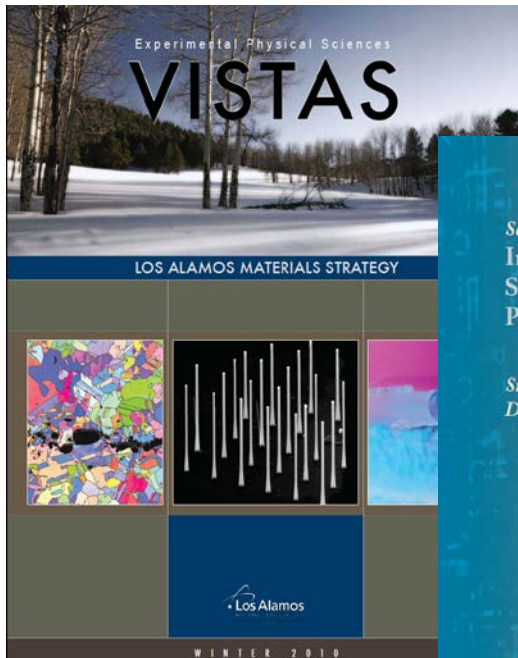
LANL invests in Strategic Centers to underpin our science and engineering

- Catalysts for developing and enabling emerging, cutting edge science and engineering at LANL.
- Agents to foster multi-disciplinary and multi-program research.
- “Centers of Excellence” with high national and international visibility.
- Premier mechanism for Laboratory recruiting and retention.
- Recognized for developing exceptional personnel in technical capabilities areas critical to our mission.
- Well integrated with Laboratory science and engineering through the line and program organizations.
- Cross-cut LANL missions.

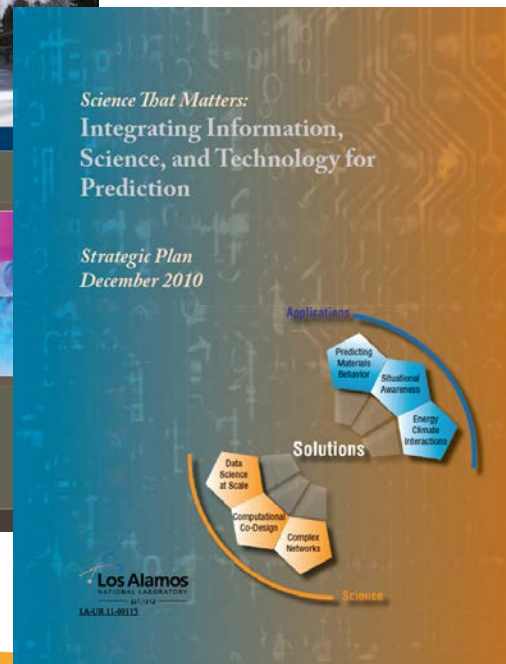
Strategic Centers provide leadership and alignment with laboratory strategic goals

Strategic Centers have shown strong leadership in development of foundational science and engineering strategies for the Laboratory

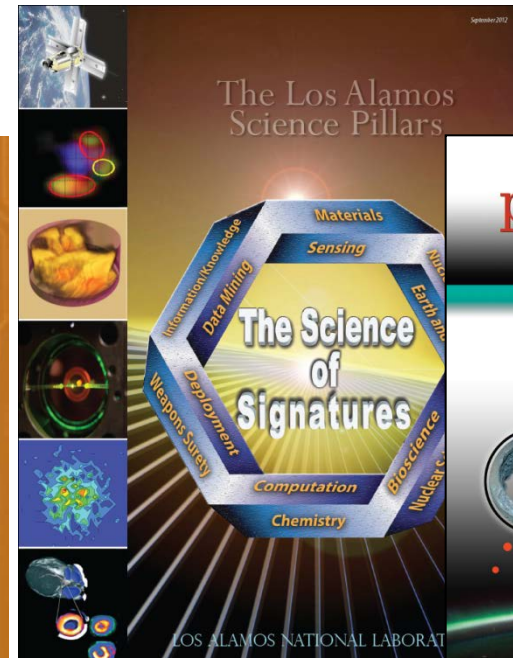
Materials



IS&T



Signatures



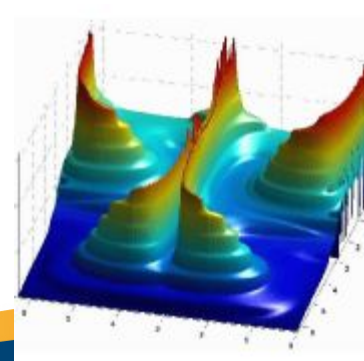
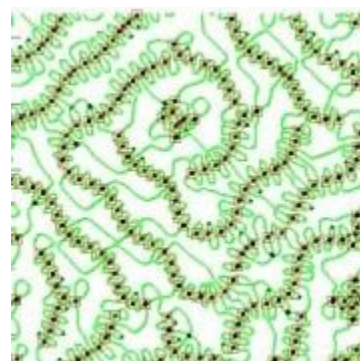
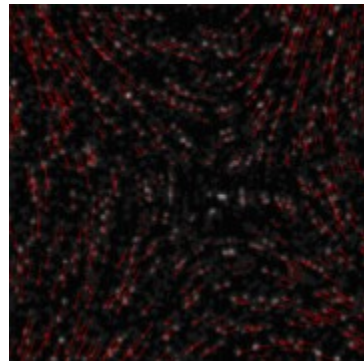
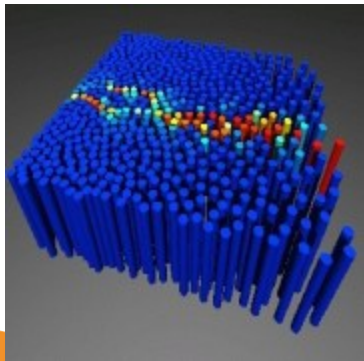
Plutonium



The CNLS Director is concurrently advertised internally and externally at both R&D Manager 4 and Scientist 5 levels

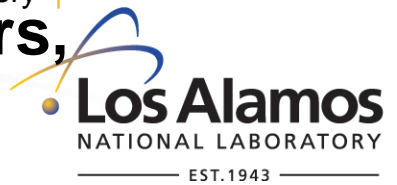
IRC 34587 & IRC 34586

- Job description
- Members of the Search Committee
- Timeline



CNLS has long tradition of distinguished leaders, several who came to LANL to lead the Center – Job is open to external applicants

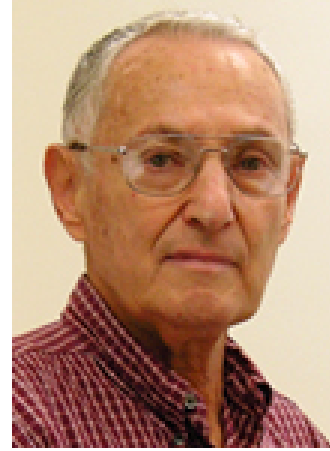
Los Alamos National Laboratory



Alwyn Scott (1981-1985)



David Campbell (1985-1993)



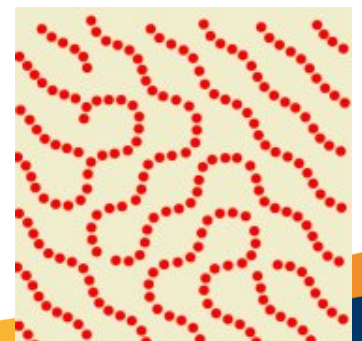
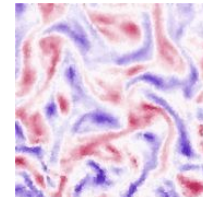
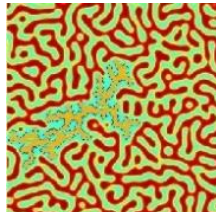
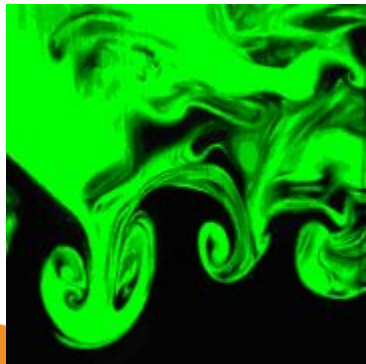
Don Cohen (1996-1997)



Hans Frauenfelder (1997-2003)

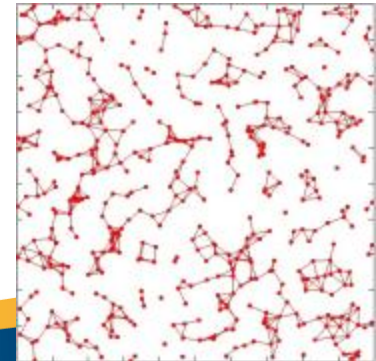
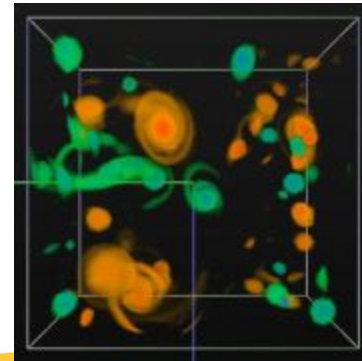
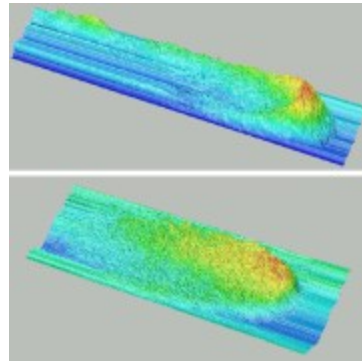


Bob Ecke (2004-present)



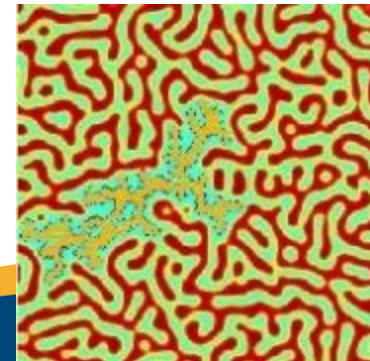
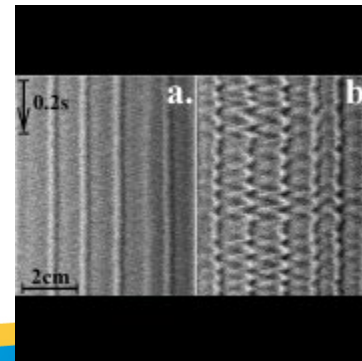
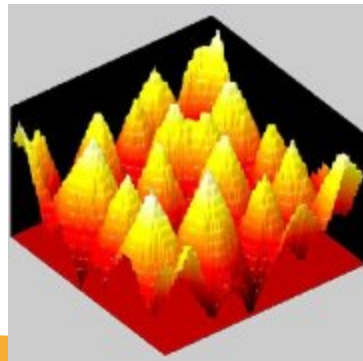
What is the CNLS?

The Center for Nonlinear Studies (CNLS) is housed in the Laboratory's Theoretical Division, and it organizes research related to nonlinear and complex systems phenomena. CNLS was formed in October of 1980. It is officially a Strategic Center under the auspices of the National Security Education Center.



The CNLS Mission Statement

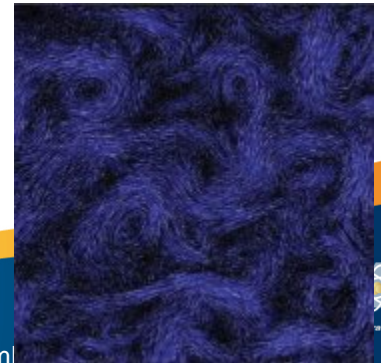
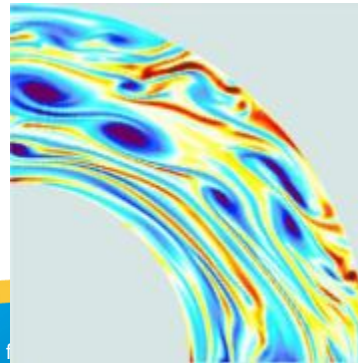
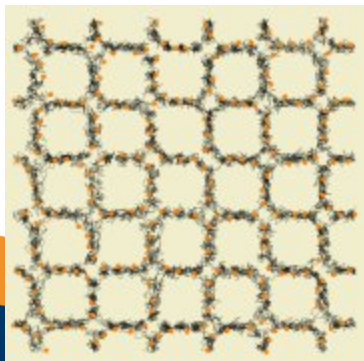
- Identify and study complex nonlinear phenomena using a diverse set of research approaches and methodologies, particularly those of statistical physics, nonlinear science, applied mathematics and numerical simulation.
- Promote the use of scientific results in applied research.
- Stimulate the formation of interdisciplinary approaches to complex problems.
- Facilitate the interchange of scientific results and ideas between Laboratory scientists and external centers of excellence.
- Encourage the exploration of new scientific frontiers at the interface between conventional disciplines.
- Support a broad spectrum of interdisciplinary science that underpins the Laboratory's mission in national security.



Funding for CNLS is provided by the Institution

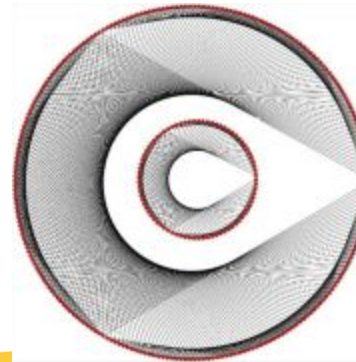
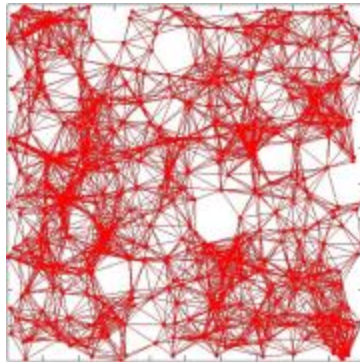
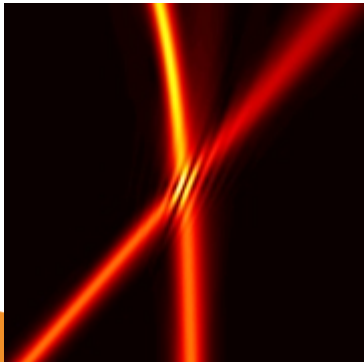
CNLS has a broad portfolio of research including the following LDRD-supported three year projects:

- 1) Non-equilibrium Phenomena in Materials, Fluids, and Climate;
- 2) Quantum Chemistry, Information, Materials, and Metrology;
- 3) Multi-scale Dynamics of Biological Systems; and
- 4) Correlations and Dynamics in Information Science.



The Search Committee has strong representation from the CNLS Executive Team

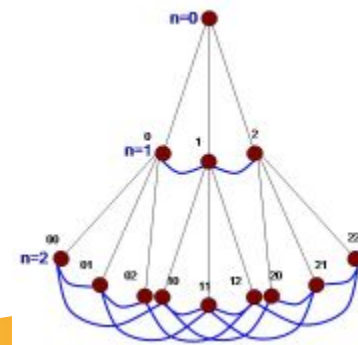
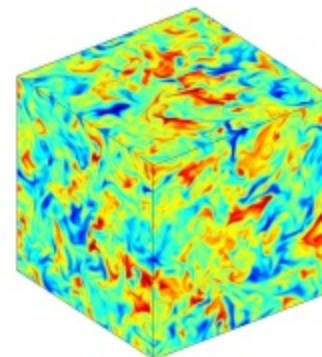
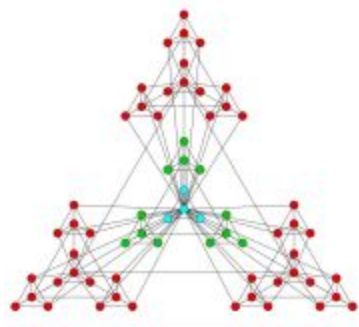
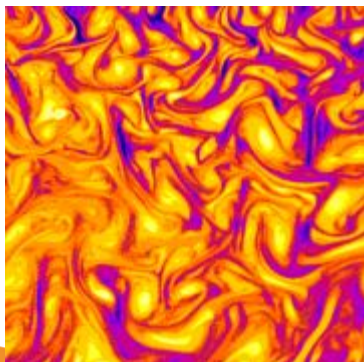
- Jack Shlachter T-DO
- Cristian Batista - T-4
- Jennifer Hollingsworth - MPA-CINT
- Sergei Tretiak - T-1 and CINT
- Russell Bent DSA-4
- Kip Barros T-1
- Frank Alexander CCS-DO
- Misha Chertkov - T-4
- Gnana Gnanakaran - T-6
- Ricardo Lebensohn – MST-8
- Tom Vestrand – ISR-2



Ads are or soon will be posted in several journals

- SIAM News
- Nature
- New Scientist
- Science
- Physics Today

Applicants whose materials are received by October 31, 2014 will receive full consideration



Los Alamos National Laboratory (LANL), a multidisciplinary research institution engaged in strategic science on behalf of national security, has a single open Center Leader position in the Center for Nonlinear Studies (CNLS). It will be filled either at the R&D Manager 4 or the R&D Scientist 5 level.

**CENTER LEADER
(R&D MANAGER 4)
Job IRC34587**

**CENTER LEADER
(SCIENTIST 5)
Job IRC34586**

The Center Leader provides scientific leadership and line management of the CNLS and plays an institutional and integrating role in collaboration with scientists throughout the Laboratory. The CNLS Center Leader is expected to develop and lead a program to target and create cooperative long-term research programs consistent with the Laboratory's strategic research objectives, to develop a strong working relationship with the CNLS External Advisory Committee, and to maintain effective working relationships throughout all levels of the Laboratory, government entities, academia and industry. The successful candidate will be expected to maintain an active research program while providing technical vision to nurture and support existing programs of others at the Center. The Center Leader should be energetic, results-oriented, a catalyst for change and an outstanding relationship builder. Line management responsibilities include accountability for quality research, management of financial and human resources, proactive support of Laboratory and Division safety, security, environment and diversity objectives, the communications/marketing strategy for the Center and collaboration with the Theoretical Division to help provide strategic direction for the organizations.

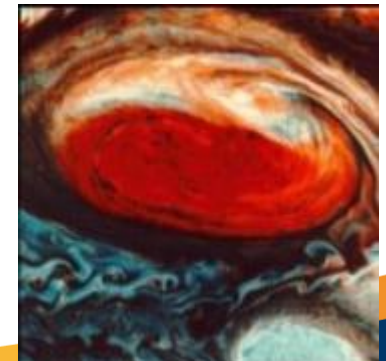
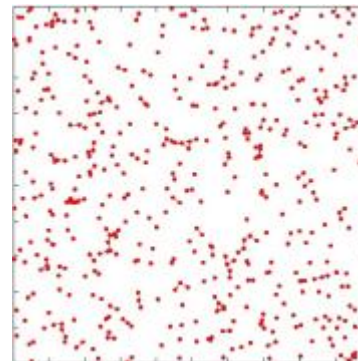
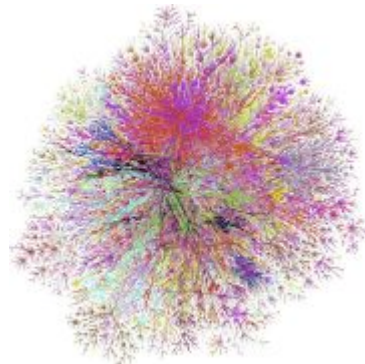
Position requires a Ph.D. degree in a scientific or engineering field relevant to the Center's activities and research or equivalent combination of education and experience. Demonstrated record of scientific accomplishment in one or more areas relevant to the Center as evidenced by an outstanding publication portfolio and/or a demonstrable national or international reputation is essential. Demonstrated experience in establishing and maintaining research collaborations, from the identification of new potential topics to forming teams, promoting proposals, and executing projects is also required.

Applicants may apply to both job postings at careers.lanl.gov

Applicants whose materials are received by October 31, 2014 will receive full consideration.

EOE

Applicants whose materials are received by October 31, 2014 will receive full consideration



QUESTIONS?

