

Pacific Northwest National Laboratory
**Frontiers in Computational and
Information Sciences Lecture Series**
Presents
Shrinking the Planet

*How Dedicated Optical Networks
Are Transforming Computational Science and Collaboration*



Speaker: Professor Larry Smarr

Harry E. Gruber Professor, Department of Computer Science and Engineering, and UCSD Director, California Institute for Telecommunications and Information Technology (Calit2)

- ▶ **Date:** Monday, August 25, 2008
- ▶ **Time:** 10:30 a.m.
- ▶ **Place:** EMSL Auditorium, PNNL Campus
- ▶ **Contact:** Jill Blaylock at (509) 375-6428
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During the last few years, a radical restructuring of global optical networks supporting e-Science projects has caused a paradigm shift in computational science and collaboration technologies. From a scalable tiled display wall, one can experience far-off places as if they were actually there, augmented by minimized delay to remote global data repositories, scientific instruments, and computational resources.

Dr. Smarr will describe how this user-configurable “OptIPuter” global platform opens new frontiers in many disciplines of science, such as interactive environmental observatories, climate change simulations, brain imaging, and marine microbial metagenomics, as well as in collaborative work environments, digital cinema, and visual cultural analytics.



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