Special Guest Lectures

The Role of High-Performance Computing in Engineering, Science, and the Arts

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Abstract:
Researchers in virtually every traditional academic discipline are realizing that high-performance computers -- and associated high-performance communications networks -- can now be very effectively used to push forward the frontiers of discovery. Such researchers are broadly referred to as computational scientists. LSU's Center for Computation & Technology (CCT) houses research expertise in the core areas that underpin virtually all such computational science efforts: Applied mathematics, computer science, computer engineering, and scientific visualization. As a result, LSU is well positioned to support an expansion of computational science research across all engineering disciplines, all science disciplines, and the arts. If you're creative and you enjoy playing with computers, it is a particularly exciting time to be a young engineer.

Speaker's Bio:
Tohline earned his bachelor's degree in physics from Centenary College of Louisiana in 1974 and his Ph.D. in astronomy from the University of California-Santa Cruz in 1978. He has been employed by LSU since 1982. Tohline has previously served as a member of the Applications Strategy Council of Internet2; on the Program Advisory Council of LIGO, the Laser Interferometer Gravitational-Wave Observatory in Livingston Parish; as chairman of LSU's Department of Physics & Astronomy; as interim executive director of LONI, the Louisiana Optical Network Initiative; and as interim director of LSU's Center for Applied Information Technology and Learning, which is now CCT. CCT is an interdisciplinary research center that advances the university's Flagship Agenda and promotes economic development for the state by using computational science applications to aid research and develop solutions that benefit academia and industry. CCT is an innovative research environment, advancing computational sciences, technologies and the disciplines they touch. By uniting researchers from diverse disciplines, ideas and expertise are disseminated across LSU departments to foster knowledge and invention (www.cct.lsu.edu).

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