

# Operating System Research at Oak Ridge National Laboratory System-level Virtualization

Presented by: **Dr. Stephen L. Scott**  
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Day: **Monday October 29<sup>th</sup>, 2007**

Time: **5:00 pm**

Where: **SRO E (Rotunda E)**

More information: Ken Gamradt (688-4408)

Electrical Engineering and Computer Science Department

## Brief background summary:

- Research interest is in experimental systems with a focus on high performance distributed, heterogeneous, and parallel computing.
- Founding member of the Open Cluster Group (OCG) and Open Source Cluster Application Resources (OSCAR). Presently the OCG steering committee chair and in the past has served as the OSCAR release manager and working group chair.
- Lead principal investigator for the Modular Linux and Adaptive Runtime support for HEC OS/R research (MOLAR) research team. This multi-lab and multi-education institution research effort, funded by the Department of Energy – Office of Science, concentrates on adaptive, reliable, and efficient operating and runtime system solutions for ultra-scale scientific high-end computing (HEC) as part of the Forum to Address Scalable Technology for Runtime and Operating Systems (FAST-OS).
- Principal investigator of a project investigating techniques in virtualized system environments for petascale computing and is involved with a related storage effort that is investigating the advantages of storage virtualization in petascale computing environments.
- Chairman of the international Scientific Advisory Committee for the European Commission's XtremOS project.
- Numerous published papers on cluster and distributed computing.
- PhD and MS in Computer Science.
- Member of ACM, IEEE Computer, and IEEE Task Force on Cluster Computing.

**All faculty and students are welcome to attend.**