

# Introduction to Parallel Computing on Ranger and Lonestar

-----  
**Agenda**

**Day 1** (Monday, September 12, 2011)

08:30-08:45 TACC Overview (Bill Barth)  
08:45-09:45 Introduction to Parallel Computing (Victor Eijkhout)  
09:45-10:00 Break  
10:00-11:00 User Environment (Robert McLay)  
11:00-11:30 Lab 1 (User Environment)  
11:30-12:30 Lunch  
12:30-13:50 OpenMP Programming (Carlos Rosales)  
13:50-14:30 Lab 2 (OpenMP)  
14:30-14:45 Break  
14:45-16:10 MPI Programming (Victor Eijkhout)  
16:10-17:00 Lab 3 (MPI)

**Day 2** (Tuesday, September 13, 2011)

09:00-10:00 TACC Systems Review (Luke Wilson)  
10:00-11:00 Hybrid Computing (Hang Liu)  
11:00-11:15 Break  
11:15-12:00 Lab 4 (Hybrid)  
12:00-13:00 Lunch  
13:00-14:00 Optimization & Scalability (Lars Koesterke)  
14:00-15:00 Lab 5 (Optimization)  
15:00-15:15 Break  
15:15-16:30 Profiling/Debugging & Lab 6 (Profiling & Debugging) (Yaakoub El Khamra)

Bill Barth [bbarth@tacc.utexas.edu](mailto:bbarth@tacc.utexas.edu)

Victor Eijkhout [Eijkhout@tacc.utexas.edu](mailto:Eijkhout@tacc.utexas.edu)

Yaakoub El Khamra [yve00@tacc.utexas.edu](mailto:yve00@tacc.utexas.edu)

Hang Liu [hliu@tacc.utexas.edu](mailto:hliu@tacc.utexas.edu)

Robert McLay [mclay@tacc.utexas.edu](mailto:mclay@tacc.utexas.edu)

Kent Milfeld [Milfeld@tacc.utexas.edu](mailto:Milfeld@tacc.utexas.edu)

Carlos Rosales [carlos@tacc.utexas.edu](mailto:carlos@tacc.utexas.edu)

Luke Wilson [lwilson@tacc.utexas.edu](mailto:lwilson@tacc.utexas.edu)