

Workshop on High Performance Computing

Date: February 12 (full day) - 13 (morning), 2009

Place: DeTamble Auditorium, Tribble Hall

Sponsored by

The Office of the Provost and the Department of Computer Science

Description. The Office of the Provost and the Department of Computer Science at Wake Forest are sponsoring a Workshop on High Performance Computing on February 12 (full day) - 13 (morning). The key goal of the workshop is to bring together WFU researchers, educators, and students involved in high performance computing and its applications and to highlight and raise awareness of their HPC related work. We hope that the workshop will lead to increased collaboration and cross-disciplinary faculty and student involvement and to discussions of HPC needs, emerging HPC trends, and funding opportunities.

This 1.5 day workshop will include panel discussions, presentations by various WFU researchers, and a plenary talk by Jack Dongarra, Distinguished Professor of Electrical Engineering and Computer Science at the University of Tennessee, Knoxville. Prof. Dongarra is a nationally recognized expert on HPC.

Please contact Paúl Pauca (paucavp@wfu.edu), David John (djj@wfu.edu), or Bob Plemmons (plemmons@wfu.edu) for additional information. Seating is limited.

Workshop on High Performance Computing

Agenda

Location: DeTamble Auditorium, Tribble Hall
Wake Forest University

THURSDAY February 12, 2009

Time	Description
8:30 - 9:00	Continental breakfast (Tribble Hall)
9:00 - 9:10	Welcome
9:10 - 10:00	Keynote talk: Jack Dongarra TBA
10:00 - 10:15	Coffee break
10:15 - 11:00	Greg Cook, Physics. NUMERICAL RELATIVITY: MODELING BLACK HOLES ON THE COMPUTER
11:00 - 11:45	Errin Fulp, Computer Science FAILURE MANAGEMENT FOR THE NEXT GENERATION OF HIGH-PERFORMANCE COMPUTING
11:45 - 12:30	Tim Miller, IS, Physics, and Computer Science HPC AT WFU: CAPABILITIES FOR TODAY, POSSIBILITIES FOR TOMORROW
12:30 - 1:30	Box lunch (Magnolia Room) <i>Free for all participants</i>
1:30 - 2:15	Panel discussion CURRENT AND FUTURE TRENDS IN HPC INFRASTRUCTURE
2:15 - 3:00	Jasmin Divers, Biostatistics COMPUTATIONAL ISSUES IN GENOME-WIDE ASSOCIATION STUDIES
3:00 - 3:45	David John, Computer Science. CONCURRENT SEARCH FOR LIKELY PROTEIN/GENE INTERACTION MODELS
3:45 - 4:00	Coffee break
4:00 - 5:00	Plenary Talk: Jack Dongarra, Olin 101 TBA
6:30 - 8:00	Dinner for interested participants <i>Not included</i>

All talks will be held in DeTamble Auditorium, except for the plenary talk at 4pm which will be held in Olin Hall 101.

FRIDAY February 13, 2009

Time	Description
8:30 - 9:00	Continental breakfast (Tribble Hall)
9:00 - 9:45	Paul Laurienti, Biomedical Engineering APPLICATION OF NETWORK THEORY TO STUDIES OF THE HUMAN BRAIN
9:45 - 10:30	Rebecca Alexander, Chemistry. COMPUTATIONAL ANALYSIS OF ALLOSTERIC ENZYMES
10:30 - 10:45	Coffee break
11:00 - 11:45	Paúl Pauca, Computer Science SYSTEMATIC DEVELOPMENT OF SCIENTIFIC SOFTWARE
11:45 - 12:00	Concluding remarks