

Workshop on High Performance Computing

Agenda

Location: DeTamble Auditorium, Tribble Hall
Wake Forest University

THURSDAY February 12, 2009

Time	Description
8:30 - 8:55	Continental breakfast (Tribble Hall)
9:00 - 9:10	Welcome: Rick Matthews, Physics Associate Provost for Information Systems
9:10 - 10:00	Keynote talk: Jack Dongarra FIVE IMPORTANT CONCEPTS TO CONSIDER WHEN USING COMPUTING CLUSTERS AND GRIDS
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	Paúl Pauca, Computer Science SYSTEMATIC DEVELOPMENT OF SCIENTIFIC SOFTWARE
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 (Autumn Room) <i>Free for all participants</i>
1:30 - 2:15	Panel discussion CURRENT AND FUTURE TRENDS IN HPC
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 CURRENT TRENDS IN PARALLEL NUMERICAL COMPUTING AND CHALLENGES FOR THE FUTURE
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	Errin Fulp, Computer Science FAILURE MANAGEMENT FOR THE NEXT GENERATION OF HIGH-PERFORMANCE COMPUTING
11:45 - 12:00	Concluding remarks

Attendees.

• Faculty

1. Rebecca Alexander, Chemistry, WFU (speaker)
2. Greg Cook, Physics, WFU (speaker)
3. Jasmin Divers, Biostatistical Sciences, WFU (speaker)
4. Jack Dongarra, Electrical Engineering & Computer Science at the University of Tennessee, Knoxville
5. Jennifer Erway, Mathematics, WFU
6. Margaret Francel, Mathematics & Computer Science, The Citadel
7. Errin Fulp, Computer Science, WFU (speaker)
8. Satoru Hayasaka, Public Health Sciences & Radiology, WFU
9. Natalie Holzwarth, Physics, WFU
10. David John, Computer Science, WFU (speaker)
11. Bob Kraft, Biomedical Engineering, WFU
12. Paul Laurienti, Biomedical Engineering, WFU (speaker)
13. Tim Miller, IS, Physics, and Computer Science (speaker)
14. Paul Pauca, Computer Science, WFU (speaker)
15. Bob Plemmons, Computer Science & Mathematics, WFU
16. Scott Rushing, Biostatistical Sciences, WFU
17. Freddie Salisbury, Physics, WFU
18. Pete Santago, Biomedical Engineering, WFU
19. Stan Thomas, Computer Science, WFU
20. Todd Torgersen, Computer Science, WFU
21. William Turkett, Computer Science, WFU
22. Mao Yu, Biomedical Engineering, VT-WFU
23. Peter Zhang, Biostatistical Sciences, WFU

• Students and Staff

1. Sebastian Berisha, Computer Science, WFU
2. Deepak Bharkhada, Biomedical Engineering, WFU-VT
3. Scott Claybrook, ITC, English, Women & Gender Studies, WFU
4. Tommy Guy, Mathematics, WFU
5. Jo Lowe, ITC Communication, Economics, and Sociology, WFU
6. Tommy Murphy, ITC, Chemistry, WFU
7. Harry Pham, Computer Science, WFU
8. Bob Rohde, ITC, Academic Computing, WFU
9. Ben Wagner, Biomedical Engineering, WFU-VT
10. Jing Wei, ITC, History, Philosophy & Political Science, WFU