

Meeting Agenda



Thursday December 3rd

Time	Event
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07:00-08:00 Registration and Breakfast – *please come early in this period for LM badging*

Session I: General Topics

08:00-08:05 Welcome and Greetings

08:05-08:15 NSF Update

08:15-08:30 State of the Center, Review of LIFE Form Process (for 2010 proposals)

Session II: 2009 Project Reviews – Part A (5-min theme intros, 20-min presentations)

08:30-09:15 Theme #1: Partial Reconfiguration (chair: Tarek El-Ghazawi)

- G7-09: Virtualizing FPGA Resources for HPRCs
- F4-09: Virtual Architecture and Design Automation for Partial Reconfiguration

09:15-10:40 Theme #2: Productivity Tools (chair: Herman Lam)

- F1-09: System-Level Formulation and Design
- F2-09: Translation and Execution Productivity
- B1-09: Reuse Tools for RC Design
- G8-09: Unified Parallel Programming of Tiler using UPC

10:40-11:00 ***Break***

11:00-12:05 Theme #3: Architectures (chair: Peter Athanas)

- V1-09: Characterizing and Optimizing Emerging Devices
- V3-09: An API for Autonomous Adaptive Systems
- F5-09: RC Device Architecture Exploration

12:05-13:05 ***Lunch***

Session III: 2009 Project Reviews – Part B (5-min theme intro, 20-min presentations)

13:05-14:10 Theme #4: Fault Tolerance (chair: Mike Wirthlin)

- B5a-09: Reliability Techniques for DSP/Comm Systems
- B5b-09: Reliable Architectures for Reconfigurable Computing
- F6-09: Reconfigurable and Hybrid Fault Tolerance

Session IV: 2010 Project Proposals (5-min theme intros, 10-min presentations)

- 14:10-15:05 Theme #1: Architecture (chair: Ann Gordon-Ross)
- F4-10: PR Architecture and Design Toolset for Embedded and Aerospace Systems
 - G7-10: Hardware Virtualization: System-level support for HPRCs
 - F5-10: Device/Application Mappings – Measurement, Performance, and Prediction
 - V1-10: On the Performance, Programmability, and Power of Accelerators
 - F2-10: Hardware Virtualization Layer for Ubiquitous RC
- 15:05-15:25 ***Break***
- 15:25-16:10 Theme #2: Productivity (chair: Greg Stitt)
- F1-10: Comprehensive Framework for Application Development Productivity
 - B1-10: Rapid RC Development Techniques
 - G8-10: PGAS Optimizations for Many-core Architectures
 - V3-10: A Toolkit for Bitstream Patching
- 16:10-16:45 Theme #3: Fault Tolerance (chair: Brent Nelson)
- B5-10: Reliability Techniques for RC Systems
 - F6-10: Adaptively Fault-Tolerant Reconfigurable Architectures
 - B6-10: Reliable Architectures for Reconfigurable Computing
- 16:45 ***Break for Dinner***

Session V: Workshop Dinner & Poster Session

- 19:00-21:00 Workshop Dinner & Poster Session @ SeaWorld (see map & poster list for details)

Friday December 4th

Time	Event
07:00-08:00	Registration and Breakfast – <i>please come early in this period for LM badging</i>
<u>Session VI: Feedback Review & IAB Forum (closed to students)</u>	
08:00-09:30	Review of LIFE Form Highlights on 2010 Project Proposals
09:30-09:45	Collect and Tally Project Ballots from IAB Members
09:45-10:00	<i>Break</i>
10:00-11:00	IAB Meeting (project vote review, policy discussion, 2010 officer election, etc.)

<p>Session VI Alternate – Student Forum: Students from all sites will meet together @ hotel, Room Crystal E. Activities for this session will be organized by Professors Nelson and Athanas. Students should return to Lockheed-Martin in plenty of time to rejoin the workshop at 11am for Session VII.</p>

Session VII: Supplemental Reports & Conclusions

- 11:00-11:45 New-Member Intros, ROI Presentations, Supplementary Updates
- 11:45-12:00 Wrap-up and Concluding Remarks
- 12:00-13:00 ***Box Lunch***

Session VIII: Optional Hands-on Tools Demos (1-3pm @ Workshop Hotel, Room Crystal E)

Except where noted otherwise, all events held in Lockheed-Martin R&D Building, 1st Floor Conference Center.