

Year 7: Industry Advisory Board (IAB) Mid-term Update Meeting
 January 26 – 27, 2016
 Arizona State University

AGENDA

Revised: December 28, 2015

Objectives

- Provide a forum for NSF, IAB members, faculty, students, and guests to interact and discuss research projects, areas of interest, and opportunities
- Deliver a brief update on Center activities, mid-term update on Year 6 projects
- Conduct IAB business meeting

Tuesday, January 26, 2016

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| 7:30 - 8:00 am | Registration Check-in and Coffee, ASU campus, Old Main, 400 E. Tyler Mall, Tempe, AZ 85281 (south of University Dr., just east of College Ave.) |
| 8:00 – 8:15 am | Welcome , Sarma Vrudhula, Director, Center for Embedded Systems Introductions , Sarma Vrudhula (ASU), Spyros Tragoudas, Site Director SIU |
| 8:15 – 8:30 am | NSF Message , Craig Scott, University of Washington, NSF Evaluator |
| 8:30 – 9:30 am | Keynote Address / Q&A: Brad Corrion, Intel Corporation |
| 9:30 – 9:40 pm | BREAK |
| 9:40 – 10:10 am (5 - 10 min presentations) | Industry Presentations: <ol style="list-style-type: none"> 1. Ford 2. Raytheon 3. DENSO |
| 10:10 – 11:15 am | Industry Poster Session / CES Student Job Fair / Year 6 Final Report Posters |
| 11:15 – 12 pm | LUNCH – informal – please continue networking as you'd like |
| 12 – 12:10 pm | Presentation Format Overview , Rudy Beraha, Qualcomm, CES – IAB chair |
| 12:10 – 12:35 pm (3 min presentations) | Mid-term Research Updates , year 7 projects – GROUP 1 <ol style="list-style-type: none"> 1.1 Synchronizing Finite State Machine Controllers for Distribution Systems, Dimitri Kagaris, SIU 1.2 Dynamic Learning of Application Characteristics for Performance and Energy Management of Smartphones, Sarma Vrudhula, ASU 1.3 A High-Performance, QoS-aware Memory Scheduling Approach for Highly Parallel, Heterogeneous Smartphone SoCs, Carole-Jean Wu, ASU 1.4 Debugging Errors in Failed Functional Test Sequences, Spyros Tragoudas, Themistoklis Haniotakis, SIU 1.5 Automated Testing for Functional Coverage for Cyber-Physical Systems, Georgios Fainekos, ASU 1.6 Embedded Controller for Reduction of Torque Oscillations in a PMSM, Constantine Hatziaioniou, SIU |
| 12:35 – 1:55 pm | Poster Session , year 7 projects – GROUP 1 |

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| 1:55 – 2:15 pm | Complete LIFE Forms online (10 minutes) , year 7 projects – GROUP 1 LIFE Forms Feedback: Discussion (10 minutes) , year 7 projects – GROUP 1 |
| 2:40 – 3:05 pm (3 min presentations) | Mid-term Research Updates , year 7 projects – GROUP 2 2.1 Distributed Run-time Management for Multi-agent System, Iraklis Anagnostopoulos, SIU 2.2 On the Verification of Formal Methods for Digital Embedded Control Systems, Dimitri Kagaris, Spyros Tragoudas, SIU 2.3 Radhard Ka-Band Power Amplifiers for Space, Jennifer Kitchen, ASU 2.4 Development of a novel high-speed CMOS pixel image, Hugh Barnaby, ASU 2.5 Building Energy-Efficient, Adaptive, and Secure Wireless Sensor Node By Harnessing Randomness, Fengbo Ren, ASU 2.6 Large-scale Data-driven Sensing and Analytics for Dynamic Failure Prediction, K. Selcuk Candan, ASU |
| 3:05 – 4:25 pm | Poster Session , year 7 projects – GROUP 2 |
| 4:25 – 4:45 pm | Complete LIFE Forms online (10 minutes) , year 7 projects – GROUP 2 LIFE Forms Feedback: Discussion (10 minutes) , year 7 projects – GROUP 2 |
| 4:45 – 5:15 pm | Wicked Problem Panel, facilitator: Craig Scott, University of Washington, NSF Evaluator. IAB Members to extemporaneously chat about areas in which their companies are stuck or seeking solutions. Open forum for faculty and students to ask questions and participate in the discussion. |
| 6:00 pm | Happy Hour & Dinner (all) , Pedal Haus Brewery, 730 S. Mill Ave. |

Wednesday, January 27, 2016

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| 8 – 10:30 am | Light Breakfast, IAB meeting (closed session), ASU’s Centerpoint Bldg , 660 S. Mill Ave., 2 nd Floor, conference room 203-03 |
| | State of the Center , Sarma Vrudhula, Director, Center for Embedded Systems |
| | IAB Business meeting , Rudy Beraha, Qualcomm, CES – IAB chair |
| | VIDEO commentary session: IAB members to record comments about participation in CES for inclusion in a promotional video. Questions and prep will be provided in advance. |