MSE Preliminary Program

Sunday

1:00pm-5:00pm: Cypress PSoC Workshop (Location TBD)

5:00pm-7:00pm: Registration and Welcome Reception

Monday

8:00-8:30am: Registration and Continental Breakfast

8:30-8:45am: Introduction and Welcome

8:45-9:45am: Keynote Address

“Microelectronics Education at the end of Moore's Law”
Dr. Robert Colwell
Director, Microsystems Technology Office
Defense Advanced Research Projects Agency

9:45-10:00am: Break

10:00-11:00am: Session 1

James Hamblen, Zachery Smith and Winnie Woo. Introducing Embedded Systems in the first C/C++ Programming Class

Olivier Bonnaud and Laurent Fesquet. Innovating projects as a pedagogical strategy for the French network for education in microelectronics and nanotechnologies

Ingo Schmädecke, Christian Leibold, Hans-Peter Brückner and Holger Blume. Project-organized Education: From FPGA Prototyping to ASIC Design

11:00-11:30am: Break

11:30am-12:30pm: Session 2: Invited Talks

Paul Franzon. Flips, MOOCs, OOCs and Hybrids: The emerging landscape for higher education
David Money Harris and Sarah Harris. Introductory Digital Design and Computer Architecture Curriculum

12:30-12:35: Frame Table Lunch Discussion (John Nestor)

12:35-1:30pm: Lunch (Tables discuss “Future of MSE Conference”)

1:30-2:00pm Session 3: Discuss Table Results on Future of MSE Conference

2:00-2:40pm: Session 4

Patrick Schaumont and Ingrid Verbauwhede. The Exponential Impact of Creativity in Computer Engineering Education

Christos Ttofis, Demetris Stavrou, Dimitris Koukounis, Theocharis Theocharides and Christos Panayiotou. A Laboratory Course on 3D Vision for Robotic Applications

2:40-4:00pm: Session 5: Posters/Break

Jean-Marc Galliere and Jerome Boch. A toolkit to demystify CMOS Active Pixel Sensors

Can Sitik, Prawat Nagvajara and Baris Taskin. A Microcontroller-Based Embedded System Design Course with PSoC3

Tomi Westerlund, Pasi Liljeberg, Juha Plosila and Hannu Tenhunen. From Traditional VLSI Education to Embedded Electronics

Ashraf Suyyagh, Benjamin Nahill, Alexandre Courtemanche, Evgeny Kirshin, Zeljko Zilic and Boris Karajica. Managing the Microprocessor Course Scope Expansion

Gayatri Mehta, Xiaozhong Luo, Natalie Parde, Krunalkumar Patel, Brandon Rodgers and Anil Kuman Sistla. UNTANGLED - An Interactive Mapping Game for Engineering Education

Emily Marasco and Laleh Behjat. Integrating creativity into elementary electrical engineering education using CDIO and project-based learning

Kjell Jeppson and Per Larsson-Edefors. Exploring Prefix-Tree Adders using Excel Spreadsheets: Setting up an Explorative Learning Environment

Adelson Chua, Anne Lorraine Luna, Christian Raymund Roque, Louis Alarcon, Carlos Oppus, Roderick Yap, Ellen Agnes Zafra, Mercedenia Lambino, Ramon Garcia and John Richard Hizon. Driving Philippine Microelectronics Education Development with Multi-university Collaboration
Antonio Mondragon-Torres and Jeanne Christman. A Comprehensive Embedded Systems Design Course and Laboratory

Rico Jossel Maestro. Improving an Undergraduate Laboratory Course for Semiconductor Device Theory to Enhance an IC Design Program

**4:00-5:00pm: Session 6: Invited Talks**

Alex K. Jones, Iris Bahar, Srinivas Katkoori, Patrick Madden, Diana Marculescu, and Igor Markov. “Scaling” the Impact of EDA Education: Preliminary Findings from the CCC Workshop Series on Extreme Scale Design Automation

Brucek Khailany. GPU design in the era of power-limited computing

**5:00-6:00pm: Session 7: Panel session: From the academic frying pan and into the industry fire**

Organizer/Moderator:
Mark Johnson

Panelists:
- Rowland Reed, Qualcomm Inc. Principal/Manager Engineer - QCT DSP Core Design team.