Program - Mesa 1999

1999 IEEE COMPUTER ELEMENTS MESA WORKSHOP

January 17-20, 1999
Arizona Golf Resort
425 South Power Road
Mesa, Arizona

Workshop:
General Chair: Robert Montoye, IBM Research (914) 945-3075
Program Chair: Wen-Hann Wang, Intel (503) 696-3048
Registration: Jefferson Connell, Amdahl Corp. (408) 746-3303, Fax: (408) 746-7000
Treasurer: Jefferson Connell, Amdahl Corp. (408) 746-3303

Technical Committee on Computer Elements:
Committee Chair: Douglas Westcott, IBM. (914) 435-8652
Vice Chair (Mesa): Robert Montoye, IBM Research (914) 945-3075
Vice Chair (Vail): Jeff Yetter, HP (970) 898-3249
Japan Committee Chair: Michinori Nishihara, 011+81+0775+87+6110
IBM Japan
European Committee Chair: Mario Vinsani, Bull 011+39+2+6779-8244

Workshop Theme: When does it get difficult to design chips?

Sunday, January 17, 1999
Evening Keynote Address: The Future of Computing
Dr. Richard Wirt, Intel Fellow and Director of Microcomputer Labs

Monday 8:30-12:00am
Session 1: Low Power Technology
Chair: Deo Singh, Intel
1.A Technology and Process Challenges
   Vivek De, Intel
1.B Circuits: Focus on LP Latches
   Vojin Oklobdzija, UC Davis
1.C LP Microarchitecture Optimizations
   Vivek Tiwari, Intel
1.D System on a Chip/Compilers
   Paul Six, IMEC

Monday 1:00-5:00pm
Session 2: Asynchronous Logic
Cochair: Jim James, JAJ Associates
Cochair: Seiken Yano, Kochi Univ. of Technology
2.A An adaptive digital de-skewing circuit for clock network
   Kevin Dai, Intel Corp
2.B A 1.0GHz Single Issue 64bit Power PC Integer Processor
   Kevin Nowka, IBM
2.C NULL Convention Logic
   David Lamb, Thesus Logic
2.D Scalable-Delay-Insensitive Design: A high-performance approach to dependable asynchronous systems
   Takashi Nanya, University of Tokyo

Monday 8:00-10:30pm
Session 3: Intelligent Transport System (Automotive)
Cochair: Joel Boney, HP
3.A The IBM Microdrive
   Thomas Albrecht, IBM
3.B Global Positioning Systems
Tuesday 8:30-12:00pm
Session 4: Digital Consumer Devices/PDAs
Cochair: Gerry Merckel, Florida Atlantic University
Cochair: Michinori Nishihara, IBM
  4.A High definition Projector Systems
  William Glenn, Florida Atlantic University
  4.B Wearable Computer
  Testune Toyokawa, IBM Japan
  4.C Portable PC with Eyes
  John Alexander, Florida University
  4.D Digital Camera Directions
  George Ismael, Dycam Inc.

Tuesday 1:00-5:00 Technical Interchange
Tuesday, 8:00-11:00pm
Session 5: Known Good Die/MC
Chair: Claude Bertin, IBM
  5.A Known-Good-Die (KGD): Die Products Consortia
  A L. Gilg, MCC
  5.B KGD: Another Packaging Option
  B R. Wagner, Rockwell
  5.C KGD Processing
  Ed Perrott, Chip Supply
  5.D The Crucial Role of Test Methods in Lowering Cost and Improving Reliability of KGD
  M. Taylor, TI
  5.E KGD Applications
  J. van Horn, IBM

Wednesday, 8:30-12:00pm
Session 6: Wireless Connections to Mobile Systems
Chair: Winfried Wilcke, IBM Research
  6.A GHz CMOS radios in 1999
  Hamid Rategh, Stanford University
  6.B Short Range Wireless Connectivity - RF and IR,
  Modest Oprysko, IBM Research
  6.C Ricochet Wireless Networking Today and in the Future
  Ryan Cronin, Metricom
Workshop ends