Siemens, April 8-10

Energy Theme
08 April 2008
Garden Room, Clark-Kerr Campus

Time	Speaker, Event / Topic Information
08:00	**Registration and Continental Breakfast**
08:30	**Jack Hurley, US University Collaboration Office, SCR Princeton** Workshop Introduction
08:45	**Uwe Hermann, ZV UNI, University Liaison Office, Siemens AG**
09:15	**Dean Shankar Sastry, College of Engineering, UC Berkeley** Welcome
09:30	**Frank Bevc, Director, Emerging Technologies, Siemens Energy Sector** Siemens Discussion of Energy Sector Research Priorities/Interests
09:45	**Kevin Sullivan, VP Siemens Power Transmission & Distribution**
10:00	**Antje Lembcke, Manager, Gas Turbine Group, Siemens Energy Sector**
10:40	**Break**
10:55	**Paul Wright, CITRIS Director** Overview of UC Berkeley Energy Related Programs and Capabilities "Energy at CITRIS: Meeting our Global Energy Challenges"
11:10	**Arun Majumdar, Professor, Mechanical Engineering, College of Engineering** "Curbing Energy Demand"
12:30	**Lunch**
13:30	**Ramamoorthy Ramesh, Professor of Materials Science and Engineering, College of Engineering** **Professor Physics, College of Letters and Science** "Complex Oxide based Thermoelectrics and Photovoltaics"
13:50	**Randy Katz, Professor of Electrical Engineering and Computer Sciences,** **College of Engineering** **Co-Director, RAD Laboratory** "LoCal: A Radical Distributed Architecture for Local Energy Generation, Distribution, and Sharing"
14:10	**Van Carey, Professor of Mechanical Engineering, College of Engineering** "Data Center Efficiency, Sustainability"
14:40	**Seth Sanders, Professor, Electrical Engineering and Computer Sciences** **College of Engineering** "Distributed Solar-Thermal-Electric Generation and Storage"
15:00	**David Auslander, Professor of Mechanical Engineering, College of Engineering** "Residential Electrical Energy Management: Demand Response"
15:20	**Liwei Lin,** **Professor, Department of Mechanical Engineering** **Co-Director, Berkeley Sensor and Actuator Center** **Vice Chair - Graduate Study, Mechanical Engineering Department** "Harsh Environment Sensors for Building Automation and the Automotive Markets"
15:40	**Break**
15:55	**Ronald W. Yeung, Professor of Mechanical Engineering, College of Engineering** "Ocean Transport & Renewable Energy"
16:15	**Eli Yablonovitch, Professor of Electrical Engineering and Computer Sciences** **Executive Committee, Berkeley Nanosciences and Nanoengineering Institute (BNNI)** **College of Engineering** "Photovoltaic Solar Energy: High Efficiency AND Low Cost, Together"
16:35	**Alex Zettl, Director, Center of Integrated Nanomechanical Systems (COINS)** **Executive Committee, Berkeley Nanosciences and Nanoengineering Institute (BNNI)** "Einstein and Edison and Photovoltaics"
16:55	**Robert Dibble, Professor, Mechanical Engineering, College of Engineering** "Ion Sensing in Clean Burning HCCI Diesel Engines for Hybrid Electrics"
17:15	**Wrap Up and Collaboration Next Steps**

Infrastructure Theme
09 April 2008
Heyns Room, Men Faculty Club

Time	Speaker, Event / Topic Information
08:00	**Registration and Continental Breakfast**
08:30	**Jack Hurley, US University Collaboration Office, SCR Princeton** Workshop Introduction (Siemens and UC Berkeley participants)
08:50	**Uwe Hermann, ZV UNI, University Liaison Office, Siemens AG**
09:15	**Dean Shankar Sastry, College of Engineering, UC Berkeley** Welcome
09:30	**Oliver Hauck, President/CEO, Siemens Transportation Systems** Siemens Discussion of Industry Sector Research Priorities/Interests
09:40	**Richard Woodling, Director of Technology, Siemens Water Technology**
09:50	**Pornsak Songkakul, Application Engineer, Siemens Building Technologies**
10:00	**John Gustafson, Executive Director, R&D, OSRAM/Sylvania**
10:10	**Dr. Albert Wick, Siemens Industrial Automation**
10:30	**David Dornfeld,Will C. Hall Family Chair in Mechanical Engineering** **Associate Dean, Interdisciplinary Studies, College of Engineering** **Professor, Management of Technology Program** â€œInteroperability and Sustainability in Manufacturingâ€
10:45	**Break**
11:00	**Harrison Fraker, William W. Wurster Professor of Architecture and Urban Design** **Dean, College of Environmental Design** Overview of UC Berkeley Industry Related programs and capabilities â€œSmart Buildings and Environmental Technology: Whole Systems Integration and Technical Breakthroughsâ€
11:45	**Dean Shankar Sastry, College of Engineering, UC Berkeley**
12:30	**Lunch**
13:30	**Edward Arens, Director, Center for Environmental Design Research;** **Professor in the Graduate School, College of Environmental Design** â€œBuilding Research at the Center for the Built Environmentâ€
14:00	**Kris Pister, Professor, Electrical Engineering and Computer Science** **Co-Director, Berkeley Sensor and Actuator Center** â€œWireless Sensor Networksâ€
14:20	**Edward Lee, Chair, Electrical Engineering and Computer Sciences Department** **Robert S. Pepper Distinguished Professor** "Cyber-Physical Systems"
14:40	**Anthony Joseph, Chancellorâ s Associate Professor** **Department of Electrical Engineering and Computer Sciences** â€œSmart Grid: Remote Disturbance Detection in Wide-Area Monitoring Systemsâ€
15:00	**Alex Bayen, Assistant Professor, Dept of Civil and Environmental Engineering** â€œMobility Tracking in Large Scale Infrastructure Systemsâ€
15:20	**Roya Maboudian, Professor, Chemical Engineering, College of Chemistry** **Associate Director of Center of Integrated Nanomechanical Systems (COINS)** "Advanced Materials and Technology for Demanding Sensor Applications"
15:40	**Break**
15:55	**Doug Clark, Professor of Chemical Engineering** **Executive Associate Dean, College of Chemistry** â€œBiomimetic Composite Materials for Water Purificationâ€
16:15	**Peidong Yang, Professor, College of Chemistry** **Deputy Director, Synthesis, Center of Integrated Nanomechanical Systems (COINS)** â€œScavenging Energy from the Environmentâ€ (Presented by Paul Wright)
16:35	**David Culler, Professor in Electrical Engineering and Computer Sciences,** **College of Engineering** "Instrumentation Internet / Real World Web"
16:55	**Steve Glaser, Professor, Dept of Civil and Environmental Engineering, College of Engineering** "Improving the Public Well-Being"
17:15	**Paul Wright, CITRIS Director** "Sensing and Control of Smart Infrastructures"
17:35	**Wrap Up**
19:00	**'Healthcare' Dinner hosted by Siemens** Doubletree Hotel & Executive Meeting Center Berkeley Marina 200 Marina Boulevard, Berkeley, California, United States 94710 Tel: 1-510-548 7920 Fax: 1-510-548 7944
19:10	**Dr Carolyn Ruth Bertozzi,T.Z. and Irmgard Chu Distinguished Professor of Chemistry & Professor of Molecular and Cell Biology** Keynote Speaker

Healthcare Theme
10 April 2008
Heyns Room, Men Faculty Club

Time	Speaker, Event / Topic Information
08:00	**Registration and Continental Breakfast**
08:30	**Jack Hurley, US University Collaboration Office, SCR Princeton** Workshop Introduction (Siemens and UC Berkeley participants)
08:50	**Uwe Hermann, ZV UNI, University Liaison Office, Siemens AG**
09:15	**Geoff Owen, Dean of Biological Sciences, College of Letters and Science, UC Berkeley** Welcome
09:30	**Dr. Juergen Simon, Head of Innovation and Cooperation Management, Siemens Healthcare Sector** Siemens Discussion of Healthcare Sector Research Priorities/Interests
09:40	**Oliver Heid, Siemens Associate** Technology and Concepts
09:50	**Arne Hengerer, Siemens Associate** Magnetic Resonance Imaging
10:00	**Martin Ostermeier, Siemens Associate** Angiography and X-ray
10:10	**Himanshu Shukla, Siemens Associate** Radiation Therapy
10:20	**Lucian Lita, Siemens Associate** Knowledge Solutions
10:30	**Break**
10:45	**Geoff Owen, Professor of Neurobiology, Department of Molecular and Cell Biology** **Dean of Biological Sciences, College of Letters and Science** Overview of UC Berkeley Healthcare Related programs and capabilities â€œImaging, Diagnostics, and Personalized Medicineâ€
11:15	**Richard Mathies, Professor of Chemistry, College of Chemistry** **Director, Center for Analytical Biotechnology**
11:45	**Ikhlaq Sidhu, Director & Chair, Center for Entrepreneurship and Technology** **Adjunct Professor, Industrial Engineering and Operations Research** **Professor of Entrepreneurship and Technology** â€œLead, Innovate, and Commercialize in the Global Economyâ€
12:05	**Jasper Rine, Howard Hughes Professor and Professor of Genetics, Genomics and Development Department of Molecular and Cell Biology, College of Letters and Science** **Director, Center for Computational Biology** â€œInterpreting the Genetic Heritage of Humanity- Person by Personâ€
12:30	**Lunch**
13:30	**Lydia Sohn, Associate Professor, Dept of Mechanical Engineering** **Faculty Scientist, Physical Biosciences Division,** **Lawrence Berkeley National Laboratory** "Diagnosing Disease and Infection Using an Artificial Pore"
13:50	**Stuart Russell, Professor and Associate Chair, Electrical Engineering and Computer Sciences,** **College of Engineering** â€œComputational Physiology for Critical Care Monitoringâ€
14:10	**Steve Conolly, Associate Professor, Department of Bioengineering, College of Engineering** â€œInstrumentation for In Vivo Biomedical Imagingâ€
14:40	**Adam Arkin, Associate Professor, Department of Bioengineering** **Assistant Investigator, Howard Hughes Medical Institute** **Faculty Scientist, Physical Biosciences Division, Lawrence Berkeley National Laboratory Director, The Virtual Institute of Microbial Stress and Survival, Lawrence Berkeley National Laboratory** "Towards a computational framework for Synthetic Biology: Applications to Human Health and Beyond"
15:00	**Robert Knight, Evan Rauch Professor of Neuroscience** **Director, Helen Wills Neuroscience Center** **Professor, Dept of Psychology, College of Letters and Sciences** â€œBrain Machine Interface Research at Berkeleyâ€
15:30	**Break**
15:45	**Bernhard Boser, Professor, Department of Electrical Engineering and Computer Science** **Co-Director, Berkeley Sensor & Actuator Center** â€œFunctionalized CMOS as a Versatile Assay Platformâ€
16:05	**Amy Herr, Assistant Professor, Department of Bioengineering, College of Engineering** â€œThe Biomarker Pipeline: Microfluidic Instrumentation for Advancing Proteomic Discovery to Clinical Diagnosticsâ€
16:25	**John Clarke, Professor of Physics, College of Letters and Science** **Senior Scientist, Materials Sciences Division, Lawrence Berkeley National Laboratory** "MRI in microtesla fields: diagnosing cancer"
16:45	**Michael Jordan, Pehong Chen Distinguished Professor, Electrical Engineering and Computer Sciences, College of Engineering** **Professor, Department of Statistics, College of Letters and Science** â€œApplications of Machine Learning in Computational Biologyâ€
17:05	**Dan Fletcher, Associate Professor, Department of Bioengineering, College of Engineering** **Faculty Scientist, Department of Synthetic Biology, Biophysical Sciences Division, Lawrence Berkeley National Laboratory** "Hematologic Disease Diagnosis: Microfabricated Cytometer and Cell Phone Microscopy"
17:35	**Wrap up Champagne Farewell Toast**