

**California Forum on Energy Efficient Manufacturing (CaFEEM)**  
 Agenda - October 2015

8.45 - 9.15 AM	Registration and Refreshments
9.15 - 9.30 AM	<p><b>Welcome and Opening of Forum</b>          Forum Chairs: Barbara Linke &amp; Paul Harris</p> <p><b>Paul Dodd</b>, Associate Vice Chancellor, University of California, Davis</p>
9.30 - 10.00 AM	<p><b>“Sustainable Manufacturing, Big Data and the Circular Economy”</b></p> <p><b>David Dornfeld</b>          Professor of Mechanical Engineering          University of California, Berkeley</p>
10.00 - 10.30 AM	<p><b>“Intelligent Energy Storage: Changing the Way Energy is Distributed and Consumed”</b></p> <p><b>Ben Kearns</b>          Vice President of Technology          Stem, Inc.</p>
10.30 - 11.00 AM	Break and Refreshments
11.00 - 11.30 AM	<p><b>“Energy Efficiency Initiatives at the California Energy Commission in the Agriculture, Water and Industrial Sectors”</b></p> <p><b>Michael Lozano</b>          Senior Mechanical Engineer          California Energy Commission</p>
11.30 - 12.00 PM	<p><b>“SRI’s Hyper Efficient Humanoid and Applications for High Efficiency Manufacturing”</b></p> <p><b>Alexander Kernbaum</b>          Senior Research Engineer          SRI International</p>
12.00 - 12.30 PM	<p><b>“Smart and Sustainable Advanced Manufacturing using Mechatronics”</b></p> <p><b>Chinedum Okwudire</b>          Professor of Mechanical Engineering          University of Michigan</p>

12.30 - 2.00 PM	Lunch and Poster viewing
2.00 - 2.30 PM	<p><b>“Green Cycle Factory Supported by Advanced Carbon-based Manufacturing”</b></p> <p><b>Dominik Rohrmus</b> Head of Manufacturing Solutions Research Group Siemens AG</p>
2.30 - 3.00 PM	<p><b>“Research Projects on Energy Efficiency in Machine Tools”</b></p> <p><b>Jan Aurich</b> Professor of Manufacturing Technology and Production Systems University of Kaiserslautern</p>
3.00 - 3.30 PM	<p><b>“Delivering Cost Effective and Verified Energy Savings in the Manufacturing Sector with ISO 50001”</b></p> <p><b>Peter Therkelsen</b> Research Scientist Lawrence Berkeley National Laboratory</p>
3.30 - 4.00 PM	Break, Refreshments and Poster Viewing
4.00 - 4.30 PM	<p><b>“Challenges in making Factory Cooling Systems Efficient, and Manufacturing Efficient Cooling Systems”</b></p> <p><b>Vinod Narayanan</b> Professor of Mechanical Engineering University of California, Davis</p>
4.30 - 5.00 PM	<p><b>“System Design is the Key to Compressed Air Efficiency”</b></p> <p><b>Steve Arshop</b> Sales Manager Kaeser Compressors, Inc.</p>
5.00 - 5.15 PM	<p><b>Closing remarks</b> Forum Chairs</p>
5.15 - 6.15PM	Networking & Drinks Reception

## Posters

**“Data-Driven Energy Prediction in Manufacturing”**

Raunak Bhinge, University of California, Berkeley

**“Process Feasibility Analysis through Bottom-up Cost and Energy Modeling of Electrically Assisted Machining”**

Mike Doran, Oregon State University

**“Gallagher Hall: Green From the Ground Up”**

Paul Fortunato, University of California, Davis

**“Manufacturing Process Characterization: Magnetic Particle Inspection”**

Ian Garretson, University of California, Davis

**“Energy Efficiency of Ultra-High Speed Spindles”**

Paul Harris, University of California, Davis

**“Inside the Blank Factory: A Knowledge-based Manufacturing Plan Generator for Advanced Joining and Additive Processes”**

Harsha Malshe, Oregon State University

**“Impact of Services on the Energy Efficiency of Machine Tools”**

Gülsüm Mert, University of Kaiserslautern

**“An Energy Prediction Model for Stereolithography”**

Hari Nagarajan, Oregon State University

**“Sustainable Manufacturing”**

Lukas Prasol, Technical University of Berlin

**“Sustainable Technological Solutions”**

Lukas Prasol, Technical University of Berlin

**“Modeling Environmental Impacts in an Injection Molding Process”**

Kamyar Raoufi, Oregon State University

**“Unit Manufacturing Process Model Composition for Manufacturing Energy Analysis”**

Matteo Smullin, Oregon State University

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