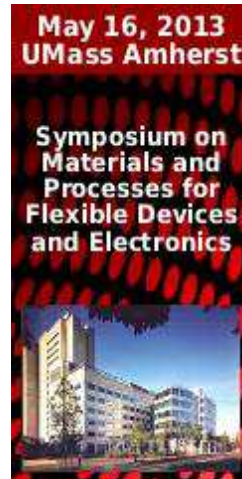


## Materials and Processes for Flexible Devices and Electronics

The symposium was attended by more than 150 participants from academia, government and industry, with 50 companies and 10 academic institutions represented. Topics included:

- Nanoarchitecture control for photovoltaics (PVs)
- Material design & device engineering for polymer PVs
- Roll-to-roll (R2R) nanomanufacturing processes for displays & Photovoltaics
- Printed & hybrid flexible electronics
- Polymeric semiconductors for printed opto-electronics
- Conformal electronics for the human body
- R2R nanoimprint lithography
- Advances in electrophoretic display technology
- Integration of high performance electronics into flexible packaging



**Symposium on Materials and Processes for Flexible Devices and Electronics**  
University of Massachusetts Amherst  
Thursday, May 16, 2013

*Control of Nanoarchitectures for Producing Efficient, Large-Area Organic Single-Crystalline Solar Cells*  
**Professor Alejandro L. Briseno**  
Polymer Science and Engineering  
University of Massachusetts Amherst

*Polymeric Semiconductors for Printed Opto-Electronics: Materials Design and Role of the Interfaces*  
**Dr. Antonio F. Facchetti**  
Chief Technology Officer  
Polyera Corporation

*Patterned by Printing—a New Approach to Printed Electronics*  
**Ms. Carolyn R. Ellinger**  
Senior Research Scientist  
Kodak Technology Center

*Roll-to-Roll Processing of Nanostructured Materials and Devices*  
**Professor James Watkins**  
Director, NSF Center for Hierarchical Manufacturing  
University of Massachusetts Amherst

*Roll-to-Roll Nanomanufacturing Processes with Applications in Display and Organic Photovoltaics*  
**Professor L. Jay Guo**  
Professor of EECS, Macro, Mechanical Engineering and Applied Physics  
University of Michigan

*Printed Electronics Applications in Integrated Buildings and Aerospace Systems*  
**Dr. Slade Culp**  
Staff Scientist  
United Technologies Research Center

*Rational Material Design, Interface, and Device Engineering for High-Performance and Stable Polymer Solar Cells*  
**Professor Alex K.-Y. Jen**  
Boeing/Johnson Chair  
Professor of Materials Science & Engineering  
University of Washington

*Reshaping Electronics for the Human Body*  
**Mr. Benjamin Schlatta**  
Co-Founder  
Vice President of Business Development  
MC10, Inc.

*Hybrid Flexible Electronics*  
**Professor David R. Allee**  
and Eric Forsythe (co-authors)  
Electrical Engineering  
Arizona State University

*Pushing Roll-to-Roll Nanoimprint Lithography towards Commercial Applications: Challenges, Opportunities and Findings*  
**Professor Kenneth R. Carter**  
Polymer Science and Engineering  
University of Massachusetts Amherst

*Advances in Electrophoretic Display Technology and the Use of it in Flexible Display Applications*  
**Dr. Michael McCreary**  
Global Deputy Chief Technology Officer  
E Ink Corporation

**CHM**  
Center for Hierarchical Manufacturing  
University of Massachusetts Amherst

**National Nanomanufacturing Network**

**FSE**  
NSF

**FlexTech Alliance**

**RESEARCH ON POLYMERS**

<http://chm.pse.umass.edu/flex/>