



www.mrs.org/meetings/fall2005/

CALL FOR PAPERS

ABSTRACT DEADLINE: JUNE 21, 2005

REMINDER: *In fairness to all potential authors, late abstracts will not be accepted.*

MRS Symposium M: Flexible and Printed Electronics, Photonics, and Biomaterials

Innovative, cost-effective, and reliable printing methods are becoming central to the development and integration of diverse high-tech optical, photonic, electronic, optoelectronic, and bioinformatic materials and devices. Several printing methods promise a new generation of cost-effective and disposable devices that can be made in a roll-to-roll manufacturing process.

This symposium is to provide a forum for scientists and engineers working in related fields to exchange ideas and experiences on using traditional and novel printing techniques in areas related, but not limited, to optics, photonics, data storage, displays, bioinformatics, photovoltaics, optoelectronics, organic electronics, biosensors, lighting, and others.

Papers regarding the latest developments in the science and technology of printing techniques and the fabrication of active and passive devices and elements ranging in size from a few nanometers to several centimeters are solicited:

- Flexible substrates, electronics, and optoelectronics, including low-temperature CVD processes
- Novel nanoprining and nano-imprinting methods, materials, and devices
- New characterization techniques for printing-related techniques
- Novel techniques for printing template and device fabrication
- Nanothick films and devices via Gravure and screen printing
- Ink-jet printing in device fabrication
- Printing of biomaterials and biosensors
- Nanomolding and embossing techniques and applications
- 'Printing' with scanning probes
- Unusual printing fabrication techniques for carbon-based nanoelectronics
- Nanoscale electrical contacts and nanoxerography

A tutorial complementing this symposium is tentatively planned. Further information will be included in the program that will be available in September.

Invited speakers (tentative) include: **A. Arias** (PARC), **M. Berggren** (Linköping Univ., Sweden), **P. Calvert** (Univ. of Massachusetts), **Y. Chen** (Lab. de Photonique et Nanostructures, CNRS, France), **Y. Chen** (Univ. of California-Los Angeles), **A. Chilkoti** (Duke Univ.), **S.Y. Chou** (Princeton Univ.), **P.-F. Fu** (Dow Corning Corp.), **D. Ginley** (National Renewable Energy Lab), **Y. Hirai** (Osaka Prefecture Univ., Japan), **A.J. Hunt** (Univ. of Michigan), **H. Kopola** (VTT Electronics, Finland), **H.H. Lee** (Seoul National Univ., Korea), **J. Lee** (Ohio State Univ.), **R. Nuzzo** (Univ. of Illinois), **A. Shim** (Dow Corning Corp.), **C. Sotomayor Torres** (Univ. College Cork, Ireland), **G. Whitesides** (Harvard Univ.), **G. Willson** (Univ. of Texas-Austin), **Y. Yoshioka** (Arizona State Univ.), and **J. Zhang** (Motorola Advanced Technology Center).

Symposium Organizers

L. Jay Guo

University of Michigan, Dept. of Electrical Engineering & Computer Science
3411 EECS, 1301 Beal Ave., Ann Arbor, MI 48109-2122
Tel 734-647-7718, Fax 734-763-9324, guo@eecs.umich.edu

Ghassan E. Jabbour

Arizona State University, Dept. of Chemical & Materials Engineering
and Flexible Display Center, Tempe, AZ 85284
Tel 480-727-8930, Fax 480-727-8957, jabbour@asu.edu

Arokia Nathan

University of Waterloo, Dept. of Electrical & Computer Engineering
200 University Ave. W, Waterloo N2L 3G1, Canada
Tel 519-888-4803, Fax 519-746-6321, a.nathan@ece.uwaterloo.ca

John A. Rogers

University of Illinois, Urbana-Champaign, Dept. of Materials Science
1304 W. Green St., Urbana, IL 61801
Tel 217-244-4979, Fax 217-333-2736, jrogers@uiuc.edu

James W. Stasiak

Hewlett Packard Company, Technology Development Org.
MS 321A, 1000 NE Circle Blvd., Corvallis, OR 97330
Tel 541-715-0917, Fax 541-715-3785, james_stasiak@hp.com

For additional meeting information, visit the MRS Web site at www.mrs.org/meetings/ or contact:



Member Services

Materials Research Society

506 Keystone Drive, Warrendale, PA 15086-7573 • Tel 724-779-3003 • Fax 724-779-8313 • info@mrs.org