

2008 LESTER EASTMAN CONFERENCE ON HIGH PERFORMANCE DEVICES

(Previously known as the Biennial IEEE / Cornell University
Conference on High Performance Devices)



5–7 August 2008 (Tuesday-Thursday)

Sponsored by:
The ELECTRON DEVICE SOCIETY (EDS) OF IEEE



Papers are solicited covering the physics and performance of devices and circuits for high speed/frequency, high or low power devices, and optoelectronics. Technical thrust areas will include: wide bandgap materials and devices; narrow bandgap, low power materials and devices; and heterogeneous integration of dissimilar materials and devices. **Papers that emphasize innovative device concepts and physical phenomena leading to new devices are particularly encouraged.** There will be invited papers in key areas. The proceedings of the conference will be published.

The following topical areas comprise the scope of the Conference:

- **Microwave and millimeter wave devices and circuits**
- **Optoelectronic devices and circuits**
- **Speculative materials, devices, and circuit concepts**

Topics of interest within these areas include, but are not restricted to:

- Novel materials technologies and devices
- High speed and microwave optoelectronics
- Wide bandgap materials and devices
- Light sources and detectors
- Si-based heterostructures
- Terahertz sources and detectors
- High speed measurement techniques
- III–V based devices and circuits
- Carbon nanotubes and graphene devices
- Energy conversion devices
- Insulated gate devices for compound semiconductors
- Nanoelectronics
- High power and high speed devices
- Heterogeneous integration for increased functionality
- Microwave MEMS technology
- Microwave and mm-wave integrated circuits



The Lester Eastman Conference this year will be held at the University of Delaware, located near the northern tip of Delaware in Newark. The University of Delaware (www.udel.edu) is within a short driving distance from major Philadelphia (50 minutes), Baltimore (1 hour), Washington, DC (2 hours) and New York City (2 hours). Both individual and family accommodations will be available in area hotels. Events will include conference reception, lunches, evening banquet, and a poster session.

In order to encourage student participation, limited financial assistance for travel is available to first-named student authors who are presenting papers (depending on availability of funds). This assistance **must** be requested when the abstract is submitted. Prospective authors are invited to submit a 300 word abstract and one page of accompanying figures (as a PDF file by electronic submission only) by the **extended** deadline **30 May 2008** through the conference website:

<http://lec.iiv.cornell.edu/LEC2008/abst.html>

Please note that all necessary company and/or government approvals must be obtained before abstract submission.

Instructions on how to submit an Abstract to the conference, as well as details for on-line registration, travel and accommodations, and housing are available at the conference web site at Conference Website:

<http://lec.iiv.cornell.edu/LEC2008/index.html>

Proceedings of the Conference will be published in the International Journal of High Speed Electronics and Systems and as a hard cover book in the series "Special Topics on Circuits and Systems" published by World Scientific.

Lester Eastman Conference

2008 Organizing Committee:

General Chair	Dr. Michael Shur	Rensselaer Polytechnic Institute
Program Chair	Dr. Greg DeSalvo	Northrop Grumman
Technical Chair	Dr. Paul Maki	Office of Naval Research
International Chair	Dr. Erhard Kohn	University of Ulm
Local Chair	Dr. Keith Goossen	University of Delaware
Publicity Chair/Webmaster	Dr. William Schaff	Cornell University
Treasurer	George Narode	Rensselaer Polytechnic Institute
Member-At-Large.....	Dr. Michael Spencer	Cornell University
Past Conference Chairs	Dr. James Kolodzey	
	Dr. John Zolper	
	Professor Leda Lunardi	

Planned Technical Sessions:

Advanced III–N Electronics	Dr. P.C. Chao	BAE Systems
	Dr. Paul Saunier	TriQuint
Advanced III–V Electronics	Dr. Matthias Passlack	University of California – San Diego
Advanced Si Electronics	Dr. Gennadi Bersuker	SEMATECH
Carbon Based Electronics	Dr. Peter Burke	University of California – Irvine
	Dr. Michael Fuhrer	University of Maryland
Photovoltaic Electronics	Dr. Allen Barnett	University of Delaware
Power Electronics	Dr. Paul Chow	Rensselaer Polytechnic Institute
Terahertz Technology	Dr. Imran Mehdi	Jet Propulsion Laboratory
	Dr. Jack East	University of Michigan
Thin Film Transistors	Dr. Yue Kuo	Texas A&M University
UV and Visible Optoelectronics	Dr. Michael Wraback	Army Research Laboratory
	Dr. Leo Schowalter	Crystal IS

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CALL for PAPERS, REGISTRATION, and ACCOMMODATIONS:

Instructions on how to submit an Abstract to the conference, as well as details for on-line registration, travel, and housing are available at the Conference Website. On-campus housing will be available at the University of Delaware at economical rates. A list of local hotels and accommodations can be found at the Conference Website: <http://lec.iiiv.cornell.edu/LEC2008/>