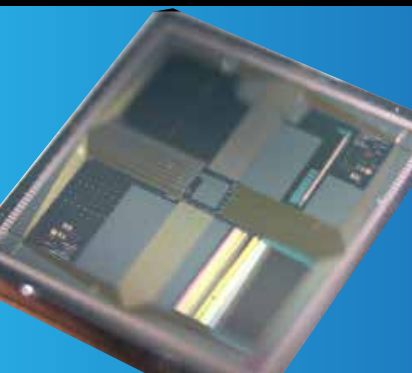


# Professional Development Opportunities at IEDM 2014

2014 IEEE International Electron Devices Meeting

Hilton San Francisco  
Union Square  
December 15 – 17, 2014

- Technical Tutorials  
Saturday, December 13, 2014
- Short Courses  
Sunday, December 14, 2014



## IEDM Tutorial Sessions

Saturday, December 13, 2014

2:45 - 4:15 pm, and 4:30 - 6:00 pm

IEDM has organized a series of 90-minute stand-alone tutorials, designed to provide a brief technical overview on specialized topics that will facilitate participants' understanding of IEDM's technical sessions. Three tutorials will be presented during two parallel time slots:

### Topics presented from 2:45 pm – 4:00 pm

- "Physical Characterization of Novel Materials and Devices for Logic and Memory"  
W. Vandervorst, imec
- "Power Semiconductor Device Basics: History, Application and Physics"  
Ichiro Omura, Kyushu Institute of Technology
- "Non-volatile Memories: Old and New"  
Jan Van Houdt, imec

### Topics presented from 4:30 pm – 6:00 pm

- "Reliability Characteristics of CMOS Transistors Post Si/SiO<sub>2</sub>/poly-Si Gate Stack Scaling"  
Eduard Cartier, IBM Research, T.J. Watson Research Center
- "Power Electronics for a Smart Energy Future"  
Johan Driesen, KU Leuven, ESAT-ELECTA
- "Optoelectronics of Graphene and other 2D Materials"  
Phaedon Avouris, IBM Research, T.J. Watson Research Center

## IEDM Short Courses

Sunday, December 14, 2014

9:00 am - 5:30 pm

IEDM's traditional short courses are presented as all-day events, providing participants the opportunity to learn more about important developments in emerging technology areas from expert lecturers. Presented as parallel sessions, each short course consists of five 60-90 minute presentations centered around one of two technology topics:

- "Challenges of 7nm CMOS Technology"
- "3D System Integration Technology"

**Advance registration is required for both Short Courses and the Tutorial Sessions.**

**For complete registration information, visit:**  
<http://www.his.com/~iedm/register/>

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For complete conference and registration information visit: [www.ieee-iedm.org](http://www.ieee-iedm.org)



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