



2015 Rochester Section Joint Chapters Meeting

March 31, 2015

RIT Inn & Conference Center, 5257 W. Henrietta Road

Registration: 4:00 – 4:30 PM
 Chapter Technical Presentations: 4:30 – 5:30 PM and 5:30 – 6:30 PM (see below)
 Social and Refreshments (Cash Bar) 6:30 – 7:00 PM
 Dinner & Keynote Presentation: 7:00 – 9.30 PM



Keynote Speaker: Dr. Stefan Wurm

SEMATECH Director of Strategic Alliances

Collaborative Research and Development in a Dynamically Evolving High Technology Landscape

Co-Sponsor



The semiconductor industry landscape today looks very different than it did when SEMATECH was founded in the late 1980's to help drive and coordinate collaborative research in a highly competitive industry with more than 20 leading-edge chip companies. Today semiconductor manufacturing is i) a highly consolidated industry with only a few players that can afford to invest in leading edge development and manufacturing; ii) supplying a much more differentiated end market served by a new set of players, many of whom did not exist 25 years ago; and iii) supported by a supply chain where even the largest players struggle to fund research and development needs. While this provides opportunities for new models of successful collaborative research within the value chain of the semiconductor industry, it also points to a need for collaboration between industries that have not traditionally cooperated. Examples include healthcare and scientific applications that increasingly rely on highly integrated silicon solutions. In this presentation we share our perspective on these industry changes and their implications for successful research and development collaboration.

Presentations

4:30 – 5:30 pm	<i>Electron Devices</i>	Dr. Min-Hwa Chi, Globalfoundries	FinFET technology: Overview and status at 14nm node and beyond
	<i>Signal Processing</i>	Dr. Raja Bala, Xerox	Video Analytics in Transactional Services
	<i>Geospatial and Remote Sensing</i>	Dr. Matthew J. Hoffman, RIT	Ground Target Tracking Utilizing DDDAS Based Control of an Adaptive Optical Sensor
	<i>Technology & Engineering Management</i>	Scott Catlin, J.D., Univ. Rochester	URVentures: Commercializing University Technology
5:30 – 6:30 pm	<i>Photonics</i>	Dr. Stefan Preble, RIT	Silicon Photonics – Light on a Chip for High Performance Computing
	<i>Engineering in Medicine and Biology</i>	Dr. Cristian Linte, RIT	On Augmented and Virtual Visualization Environments for Computer-Aided Diagnosis
	<i>Communications</i>	Dr. Giridhar Mandyam, Qualcomm	User Authentication and the Mobile Web
	<i>Microwave Theory & Tech Antennas & Propagation</i>	Dr. Frank Scharf, CST of America	Modeling and Simulation of Plasma Based Applications in the Microwave and RF Range
	<i>Technology & Engineering Management</i>	Special Session with VC Panel	Panel discussion

Dinner Selections

New York Strip Steak

Ten Ounces with Caramelized Onions & Cabernet Butter

Or Seared Salmon

Prosecco Cream Sauce

Or

Spicy Orecchiette

Pasta with Mixed Vegetables in Arrabbiata Sauce

Dinner Reservations Required by March 23 (No charge for attending technical presentations)

Register on-line at <https://meetings.vtools.ieee.org/m/31549> (pay-pal accepted)

Dinner: \$30.00 (IEEE Member or IEEE Member spouse/significant other), \$40.00 (Non-member)
\$15.00 (IEEE Student Member), \$20.00 (IEEE Student Non-member).