

# IEEE Southeastern Michigan Section Conference & Dinner – Fall 2006



Thursday, November 2, 2006  
Fairlane Center, University of Michigan – Dearborn



## Keynote Address

"The Robert C. Byrd Green Bank Telescope (GBT)"

### John Ford

Electronics Engineering Division Manager  
National Radio Astronomy Observatory (NRAO), Green Bank, West Virginia  
GBT is a 100 meter diameter radio telescope located in Green Bank, WV. It is the largest fully steerable radio telescope in the world. In this presentation, John will discuss the optical and mechanical performance of the telescope, sensitivity of its instrumentation, and challenges to its operation. website <http://www.gb.nrao.edu>.

## Program Agenda

4:30 PM - On-Site Registration & Vendor Tables  
5:00 PM – 5:45pm - Chapter Sessions I  
6:00 PM – 6:45pm - Chapter Sessions II  
6:45 PM - Vendor Tables & Networking  
7:15 PM - Dinner  
7:30 PM - Awards Program and Announcements (during dinner)  
8:00 PM - Keynote Address  
8:45 PM - Q&A

## Registration

Registration is online at: <http://www.ieee-sem.org>  
Early registration ends Thursday, October 19, 2006  
Late registration ends Thursday, October 26, 2006  
Dinner seating is limited so register early.  
Registrar: Scott Lytle, Email [s.r.lytle@ieee.org](mailto:s.r.lytle@ieee.org)  
Conference Chair: Prof. Chris Mi, Ph.D. [mi@ieee.org](mailto:mi@ieee.org)  
Section Chair: Mark Ciechanowski, P.E. [mark.ciechanowski@ieee.org](mailto:mark.ciechanowski@ieee.org)  
\$25 members, \$30 non-members, \$10 students/retirees/unemployed  
Fairlane Center, 19000 Hubbard Drive, Dearborn, MI 48128

## Chapter Technical Session I – 5:00pm

## Chapter Technical Session II – 6:00pm



### Chapter II - Vehicular Technology

"Dynamic modeling of hybrid vehicles"

#### Hongjie Wu and Chris Mi

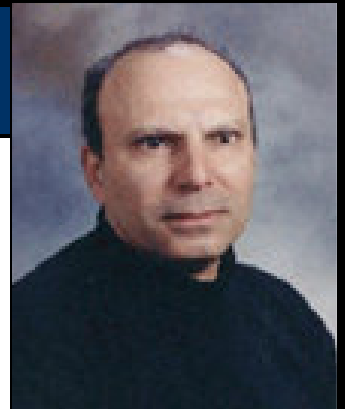
Power Electronics Laboratory  
University of Michigan – Dearborn  
and Ford Motor Company

### Chapter I - Circuits and Systems, Information Theory, and Signal Processing

"Mapping regular iterative algorithms onto processor arrays or - Layer 3 processing of spam email"

#### Dr. Fayez Gebali

Professor ECE, Associate Dean, University of Victoria, Canada



### Chapter VIII - EMC Chapter VI - Geoscience and Remote Sensing

"The Reduction of Hazardous Substances (RoHS) Directive and The Compliance Implications"

#### Jack Black

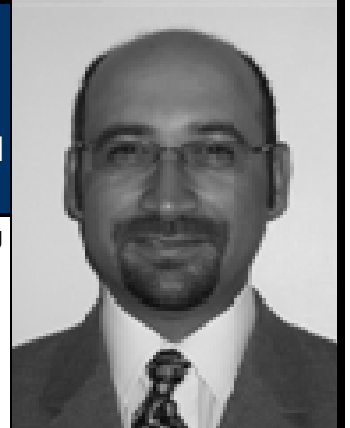
Business Development Manager,  
D.L.S. Electronic Systems

### CHAPTER III - Communications And Aerospace Electronics Chapter IV - Antennas & Propagation, Electron Devices, Microwave Theory and Techniques

"Inter-Vehicular Communications Systems: Talking Cars"

#### Dr. Kemal Tepe

Assistant Professor in Electrical and Computer Engineering  
Department of University of Windsor



### Chapter IX – Power and Industrial Electronics

"A revolutionary new fuel cell for electric vehicles"

#### Dennis A. Corrigan

President & COO of Ovonic Fuel Cell Company

### Chapter V – Computer

"Game Development Is More than Programming"

#### Dr. Bruce Maxim

Associate Professor - University of Michigan



### Chapter XII - Control Systems

"Comprehensive modeling of automotive ignition systems"

#### Randy C. Stevenson

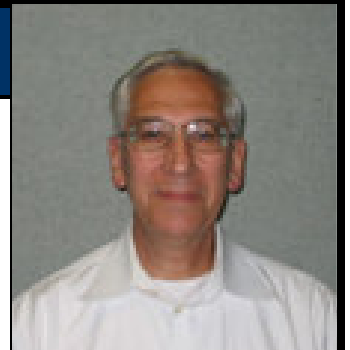
Visteon/ACH

### Chapter VII - Power Engineering and Industrial Applications

"Industrial Power Systems, a Facilities Engineering Perspective"

#### Barry C. Bruss

S & C Electric Company, Chicago Principal Facilities



### Chapter XIV - Robotics and Automation

"Faster Than a Speeding Teach Pendant, More Accurate Than a 2D Layout 20 Year Vision for Simulation"

#### Michael P. Jacobs

President and Owner  
Applied Manufacturing Technologies

### Chapter XIII – Education

"RoboFest Robotics"

Winners from the RobFest Robotics Competition

