# Program Agenda

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<td>4:00pm</td>
<td>Registration Opens</td>
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<td>5:00pm – 5:45pm</td>
<td>First Half Technical Sessions</td>
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<td>8:00pm – 9:00pm</td>
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## Technical Session One: 5:00pm – 5:45pm

**Chapter II - Vehicular Technology**

**“The Road to AUTOSAR – The New Automotive Embedded Software Solution”**

Bruce Emran  
President, Vector CANtech, Chair of IEEE Southeast Michigan Vehicular Technology

**Chapter IV - Antennas & Propagation, Electron Devices, Microwave Theory and Techniques**

**“Negative Refractive Index Materials Based on Transmission Lines”**

Dr. Anthony Grbic  
Professor of Electrical Engineering and Computer Science, University of Michigan, Ann Arbor

**Chapter VII - Power Engineering and Industrial Applications**

**“Integrating static analysis into a software development process”**

Walter W. Schilling, Jr.  
Ph.D Candidate, University of Toledo

**Chapter VIII - Electromagnetic Compatibility**

**“Perceipient signal processing: seeing the unseen in high dimensional spatio-temporal data”**

Dr. Alfred Hero, Fellow, IEEE  
Professor, Electrical and Computer Engineering, University of Michigan, Ann Arbor

## Technical Session Two: 6:00pm – 6:45pm

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

**“Telecommunications Global Engineering: What’s Out There For Me?”**

Joseph P. Cool  
President and Founder of Cool & Associates

**Chapter II - Vehicular Technology**

**“Introducing Young Engineering Students to Automotive Performance Calculations Using Maple 10”**

Dr. Richard Johnston  
Professor of Electrical Engineering at Lawrence Technological University

**Chapter III - Communications And Aerospace Electronics**

**“Biosensor Integration and Image Guidance for Robotic Surgery”**

Brady W. King  
Ph.D Student, Wayne State University

**Chapter XII - Control**

**“Power Electronics and the Growing Energy Revolution (introduces power electronics and its major technical challenges)”**

Philip T. Krein  
IEEE Distinguished Lecturer

**Chapter XIV - Robotics and Automation**

**“Introducing Young Engineering Students to Automotive Performance Calculations Using Maple 10”**

Dr. Richard Johnston  
Professor of Electrical Engineering at Lawrence Technological University

**Chapter V - Computer Technologies**

**“You’re Dilbert’s New Boss – Overview of Engineering Management Issues”**

Robert B. Bishop, Jr., P.E.  
IEEE Distinguished Lecturer Engineering Management Society

**Chapter XIX - Education**

**“Computer Engineering: What’s Out There For Me?”**

Bruce Emaus  
President, Vector CANtech, Chair of IEEE Southeast Michigan Vehicular Technology

**IEEE Expert Now Courses**

**“Computational Intelligence: Natural Information Processing”**

Leonid Perlovsky  
Principal Research Scientist, sponsored by the IEEE Computational Intelligence Society

**“Home Networking Standards”**

by Marie-José Montpetit sponsored by the IEEE Communications Society

**“Congress and Public Policy”**

Russell T. Harrison  
Legislative Representative - Grassroots Affairs, IEEE-USA