

Marquette University  
Opus College of Engineering  
Department of Electrical and Computer Engineering

**Fall 2018 Colloquium Schedule**

All lectures to be held at 2 p.m. on Tuesdays in Olin 202  
of Olin Engineering Center, 1515 W. Wisconsin Ave.

Reception and refreshments at 1:30 p.m., Room 204 of the College of Engineering.

For more information, call the EECE department office at (414) 288-6820, or visit

[http://www.marquette.edu/engineering/electrical\\_computer/](http://www.marquette.edu/engineering/electrical_computer/)

- September 25 **Detection Theory and Application for Non-Invasive Skin-Cancer Diagnosis Using Dynamic Thermal Imaging**  
Dr. Majeed Hayat  
Professor and Chair, Electrical and Computer Engineering, Marquette University  
Milwaukee, WI 53233
- October 16 **Why the Real World Doesn't Act Like the Model - Equipment and Channel Problems in Wireless Automatic Meter Reading Systems**  
Dr. Michele Malinowski  
Senior Electronic Engineer, Badger Meter  
4545 W Brown Deer RD  
PO Box 245036  
Milwaukee, WI 53224
- October 23 **Machine Learning for Image Processing**  
Dr. Dong Hye Ye  
Assistant Professor, Electrical and Computer Engineering, Marquette University  
Milwaukee, WI 53233
- October 30 **Photonics of Phase Change Materials**  
Dr. Andrew Sarangan  
Professor, Electro-Optics and Photonics Department  
University of Dayton  
Dayton, OH 45469
- November 13 **Electric Vehicle Battery State Monitoring via Magnetic Sensing**  
Dr. Arnold Mensah Brown  
Research, Engineer – Battery Systems  
Ford Motor Co.  
20100 Rotunda Drive, Dearborn, MI 48124
- November 20 **Approaches to Modern Cybersecurity Challenges**  
Mr. Steve Brukbacher  
Directory, Security Operations  
Johnson Control  
507 E. Michigan St., Milwaukee, WI 53201
- November 27 **Modeling and Optimizing Inter-Network Connections: Balancing Data-Rate Enhancement and Security**  
Dr. Pankaz Das  
Postdoctoral Research Fellow, Electrical and Computer Engineering, Marquette University  
Milwaukee, WI 53233

**All lectures are free and open to the public**