

Physics & Engineering Department

Fall 2019

IEEE sponsored "lunch break" LECTURE SERIES

ROOM **233** Loyola Science Center

THURSDAYS 12:00 - 12:50

Pizza & Soda 11:45 - Noon



THE UNIVERSITY OF
SCRANTON
A JESUIT UNIVERSITY

WELCOME BACK – Summer Internships 1

WELCOME BACK – Summer Internships 2

INTRO TO IA & ITS ECE APPLICATIONS

OLYMPIC STARTING LINES, PISTONS & BLACK HOLES

GETTING STARTED WITH CYBERSECURITY SCIENCE - LSC133

IEEE – A Secret Society?

ASPECTS OF PROJECT MANAGEMENT

HAMSCI – Ionosphere from your backyard

PUBLIC CLOUD – Optimization

ENGINEERING STANDARDS – Importance and Necessity

HEALTHCARE ANALYTICS – Data Science & Business Intelligence

Eileen, Matt, Ellie, Aubrey, Mark, Luke, Alexa

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Dr. Rosa Zheng, ECE Dept., Lehigh Univ.

Thurs, Sept 12

Thurs, Sept 19

Thurs, Sept 26

Dr. Chris Rorres, Prof. Emeritus, Math, Drexel Univ.

Josiah Dykstra, DT Dir. Cybersecurity Operations, NSA

Don Herres, PE, IEEE Region 2 EA Chair 2019

Larry Puleo, President, MLP Associates

Dr. Nathaniel Frissell, Physics/Eng. Dept., UofS

Thurs, Oct 3

Thurs, Oct 10

Thurs, Oct 17

Thurs, Oct 24

Thurs, Oct 31

John McGivern, Sr. Dir., Cloud Opt. Groupware Tech., CA

Jack Rosentel, CNL Mgr. Lockheed M, PA, Alumni

Josh Zadoyko, Senior Consultant, SDG Group, Alumni 2018

Thurs, Nov 7

Thurs, Nov 14

Thurs, Nov 21

EVERYONE WELCOME - Free Lunch 11:45 – Noon

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TRIPS to INDUSTRY

To be announced

<i>Club Moderator:</i>	Dr. W. Andrew Berger	Berger@Scranton.edu	(570) 941 – 4056
<i>President:</i>	Eileen McNulty	eileen.mcnulty@scranton.edu	609-741-9134
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<i>WEB Master:</i>	Luke Cullen	luke.cullen@scranton.edu	201-841-1509
<i>Makerspace Advisor:</i>	Alexa Baldon	alexanyx.baldon@scranton.edu	267-679-5551

The Institute for Electrical and Electronics Engineers (IEEE) is a program that provides students with the opportunity not only to participate in a campus wide event in the form of an IEEE seminar series (presentations by distinguished scientists, community business leaders, as well as our alumni and various employers/prospective job companies), but also as a time and place to pursue the club agenda, professional development and networking.

IEEE - A SECRET SOCIETY?

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IEEE U of Scranton meeting

For most of the world, especially in business, we engage in strange activities that defy explanation in a presentation. As a mechanical engineer friend of mine once put it, she does not delve into the black arts.

In business meetings, EMI is something that we should resolve, preferably without impacting project cost or schedule. ROI (return on investment) is the dominant acronym.

This presentation will focus on three topics:

An overview of IEEE globally, who we are and what we do. We are multibillion dollar corporation among other things.

Electrical, electronics and software engineering and how we are seen in the business environment.


How can IEEE add value for new graduates to enhance their careers? The best way to do so is ask the younger members who attend.


DATE AND TIME | LOCATION | CONTACT | REGISTRATION

Date: **17 Oct 2019**


Time: **11:45 AM to 12:50 PM**

All times are US/Eastern

 Add Event to Calendar

 Outlook (vCal)

 iCal

 Google Calendar

University of Scranton

313 Monroe Avenue (Parking and Public Safety Pavilion)

Scranton, Pennsylvania

United States 18510

Building: Loyola Science Building

Room Number: 233

Email event contact

Co-sponsored by IEEE Lehigh Valley Section & University of Scranton Student Branch

Starts **21 May 2019 12:00 AM**

Ends **17 October 2019 08:00 AM**

All times are US/Eastern

No Admission Charge

[Register Now](#)

<https://events.vtools.ieee.org/m/199359>



Getting Started with Cybersecurity Science

Speaker: [Josiah Dykstra](#) – Severn, MD, United States

Topic(s): [Security and Privacy](#)

Abstract

This talk offers an introduction for students and practitioners to the application of the scientific method to cybersecurity tools and systems. Creating, using, and evaluating cybersecurity tools and systems are complex tasks. Many cybersecurity professionals are attracted to the challenges of building these tools and systems, and are motivated to use their expertise to bring sanity and solutions to real-world problems. The addition of scientific thinking aids in dealing with uncertainty, unknowns, choices, and crises. It can improve existing products and lead to groundbreaking innovation and applications. In this talk, we'll focus on practical, real-world applications of science to the practice of cybersecurity. You'll learn about scientific principles and flexible methodologies for effective security as you design, execute, and evaluate your own experiments. You'll discover why the application of science is worth the added effort and you'll glean insights from specific examples of experimentation in cybersecurity.