



CENTER for ADVANCED
PUBLIC SAFETY

RESEARCH PARTNERS LUNCH SERIES

Coordinated by the Center for Advanced Public Safety ◇ Hosted by the College of Engineering

ELECTRONIC DEVICE APPLICATIONS

Tuesday, September 30, 2014 from 12:00pm to 1:30pm
NERC (North Engineering Research Center), Room 1012

RSVP by Friday, September 26, 2014 via the following link:

https://universityofalabama.az1.qualtrics.com/SE/?SID=SV_eh3L8m9wNPPy3SB

You are invited to the August lunch in the Research Partners Lunch Series. The goal of the lunch series is to introduce research topics for the development of research partnerships across disciplines. These partnerships can serve as a foundation for interdisciplinary research endeavors, grant proposal writing, course development, and innovative research applications. Different researchers from across the University are invited to brief a research topic each month for potential research partners.

The lunch will begin at noon and the presentation will begin at 12:15pm.

Dr. Patrick LeClair, Associate Professor in Physics, will present on electronic devices. We rely on electronic devices for almost every activity, but how much is known about how they really work? First, there will be a short tutorial on electronics concepts, and how they are used to store and process information. For example, an explanation of the principles behind current technologies like Flash memory, hard disks, and RAM as well as their limitations and possible successors will be presented. Second, there will be an overview of a portable electromyography (EMG) device developed in Professor LeClair's laboratory. EMG is a method of measuring the electrical activity produced by skeletal muscles, and is typically used in medical and rehabilitation settings. The basics of what EMG is and does will be outlined, along with a description of the principles behind the device that was constructed and the process of commercializing technology developed at UA. Lastly, a demonstration of the technology will be given.

Kindly RSVP your attendance by Friday, September 26 via the link below so we can reserve your lunch.

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If you have any further questions about the lunch, please call Valerie Trull at 205-348-6999.

Thank you so much and we look forward to meeting you at the Research Partners Lunch Series.

Laura Myers
Deputy Director
Center for Advanced Public Safety
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SAVE the DATES for these future series events!

January 28	April 29	July 29	October 21
February 18	May 27	August 26	November 18
March 18	June 24	September 30	December 16