

**Agenda for
2016 Duke ECE Graduate Student Workshop and Distinguished Lecture
Friday, September 23, 2016**

Registration

11:00 am **Registration Begins** (*Registration available all day*)

Welcome and Outstanding Dissertation Presentations

11:30 am – 1:00 pm **Lunch**

12:00	Dr. Andrew Hilton: Welcome
12:10	Dr. Leslie Collins: Presentation of 2015-16 Outstanding Dissertation Award
12:15 – 12:45	Dr. Boyla Mainsah, Outstanding PhD Dissertation Winner: <i>Adaptive Brain- Computer Interface Systems For Communication in People with Severe Neuromuscular Disabilities</i>
12:45-1:00	Dr. Drew Hilton: The State of the Duke ECE Graduate Program

Oral Presentation Sessions

1:20 – 2:20 pm **Session 1: Computer Engineering & Microelectronics, Photonics, and Nanotechnology**

1:00 – 1:20	Zihui Cheng: <i>Modifying the Ni-MoS2 Contact Interface Using Ar Ion beam</i>
1:20 – 1:40	Shuquan Huang: <i>Digital Microfluidics for Aerosol Analysis</i>
1:40 – 2:00	Mohamed Ibrahim: <i>A Real-Time Digital-Microfluidic Platform for Epigenetics</i>
2:00 – 2:20	Tamara Lehman: <i>PoisonIvy: speculation for secure memory</i>
2:20 – 2:35	Break – Refreshments available

2:35 – 3:35 pm **Session 2: Engineering Physics**

2:35 – 2:55	Laura Maria Pulido Mancera: <i>Discrete Dipole Approximation for the Simulation of Edge Effects of Metasurfaces</i>
2:55 – 3:15	Xinyu Liu: <i>Reconfigurable Room Temperature Metamaterial Infrared Emitter</i>
3:15 – 3:35	Clinton Cahall: <i>Cryogenic Amplifiers for a Superconducting Nanowire Single Photon Detection System</i>
3:35 – 3:50	Break – Refreshments available

3:50 – 4:50 pm **Session 3: Signal and Information Processing & Robotics**

3:50 – 4:10	Vaishakhi Mayya: <i>P300-based Brain-computer Interface as a Communication Channel</i>
4:10 – 4:30	Vuk Lesi: <i>Towards Plug-n-Play Numerical Control for Reconfigurable Manufacturing Systems</i>
4:30 – 4:50	Sean Murray: <i>Achieving Real-Time Motion Planning with Hardware Acceleration</i>

Evening Poster Session

4:50 – 6:30 pm **Poster session including light hors d'oeuvres and beverages**

4:50 – 5:20 **1-Minute Elevator Pitch Poster Presentations**

5:20 **Bar open, refreshments available**

5:30 – 6:30 **Poster Session**

Group 1 5:30 – 6:00	Ehsan Abadi Wanyi Fu Kalee Hicks Jianqiao Li Junfei Li Yuh-Chen Lin Shruti Preetam	Narayanan Rengaswamy Shalin Shah Anish Simhal Xin Song Yangbo Xie Roberto Zecca Yihao Zhou
Group 2 6:00 – 6:30	Joseph Andrews Tomas Barraza Zhuoqing Chang Andrew Cardin Rana Elnaggar Jiani Huang Zhiqin Huang	Zhongxi Li Mengke Lian Timothy Sleasman Jon Stewart Shangxing Sun Jimmy Thostenson Wenqi Wang

All workshop attendees may submit ballots for Best Talk and Best Poster throughout the poster session.

Evening Banquet

6:30 – 8:30 pm **Dinner and dessert**

6:55 – 7:00 **Dr. Andrew Hilton: Introduction of Distinguished Lecturer Dr. Sani Nassif**

7:00 – 8:00 **Dr. Sani Nassif, CEO of Radyalis: Distinguished Lecture – *Putting the Star in EDA, E*A***