



THREE MINUTE THESIS (3MT®) COMPETITION



14:00–16:00 | Monday, 5 June 2017
Hawai'i Convention Center: 313C



New for IMS2017, the IMS2017 3MT® competition is designed to stimulate interest in the wide range of applications of microwave technology. Contestants will make a presentation of three minutes or less, supported only by one static slide, in a language appropriate to a non-specialist audience. In 2017, the 3MT® competition received 157 submissions, of which 89 were accepted to the technical program at IMS, and 19 were designated as 3MT® finalists.

Organizers: John Bandler, *McMaster University and Bandler Corporation*; Erin Kiley, *Massachusetts College of Liberal Arts*

Master of Ceremonies: Ryan Ozawa, *Hawai'i Open Data*

Judges: Myhraliza Aala, *University of Hawai'i at Mānoa*; Cheryl Ernst, *University of Hawai'i at Mānoa*; Jay Fidell, *ThinkTech Hawai'i*; Amy Hubbard, *University of Hawai'i at Mānoa*; Burt Lum, *Hawai'i Open Data*

Awards will be presented during the Exhibit-Only Time on Wednesday (see pp. 28-29 for details)

This year's Three Minute Thesis (3MT®) Competition finalists are:

A New Way for Wireless Devices to Pick Messages Out (TH3I)

Xiating Zou, University of California, Los Angeles

Digital Linearization of Power Amplifiers for Wireless Communication (TH3C)

Wenhui Cao, University College Dublin

Integrated Tunable Filters for Next-Generation Wireless Communication (TU2H)

Md Naimul Hasan, University of California, Davis

Bloodless, Painless, and Accurate Microwave Noninvasive Blood Glucose Monitoring Sensor (WE1I)

Heungjae Choi, Cardiff University

Fast Radar Imaging: Shorter Queues at Airport Security (TH1F)

Sandamali Devadithya, University of Washington

Wireless System for Continuous Monitoring of Core Body Temperature (TH1F)

William Haines, University of Colorado

Hello... Can You Hear Me? (TH1F3)

Reece Iwami, University of Hawai'i

Finding Your Way in the Electromagnetic Grand Canyon (TH3A)

Maral Zyari, Vrije Universiteit Brussel

Catch the Energy for IoT (TH1E)

Marco Fantuzzi, University of Bologna

Microwave Heating: From Defrosting Steak to Turning Turbines (TU4H)

Joseph Gaone, Worcester Polytechnic Institute

Low-Cost 3-D-Printed Wireless Sensor Nodes for Environmental Monitoring Applications (TH1G)

Muhammad Fahad Farooqui, King Abdullah University of Science and Technology

Smart Shape-Shifting Electrical Structures: Where Art Meets Science (TH2H)

Syed Abdullah Nauroze, Georgia Institute of Technology

Wireless Neural Prosthetic (WE1F)

Hengying Shan, Purdue University

Don't Talk Back! (TU3G)

Farhan Abdul Ghaffar, King Abdullah University of Science and Technology

How to Build a Microwave Filter in One Day: from Design to Tuning (TH3A)

Song Li, University of Regina

Microwave Holography: The Future of Medical Imaging (TH1H)

Daniel Tajik, McMaster University

Millimeter Wave Imaging for Assessment of Burned Skin (TH1H)

Daniel Oppelt, Friedrich-Alexander-Universität Erlangen-Nürnberg

Low-Power Electronics for Future Telescopes (TU3A)

Shirin Montazeri, University of Massachusetts, Amherst

Contemporary Microwave Components With Indispensable Features for Future Wireless Systems (TH4B)

Walid Mohamed Galal Dyab, École Polytechnique de Montréal