



33rd Annual Meeting
Red Rock Resort – Las Vegas, NV USA
November 4-9, 2018

Winning Presentations

Best Oral Presentation awarded to:

Vivek G. Badami and Ernesto Abruña, Zygo Corporation
Lei Huang and Mourad Idir, Brookhaven National Laboratory – NSLS II

for their presentation

Real-time in Situ Metrology of the Shape of an X-ray Adaptive Mirror Using an Array of Interferometric Absolute Position Sensors

Best Poster Presentation awarded to:

Michael F. Gomez and Tony L. Schmitz
Department of Mechanical Engineering and Engineering Science
University of North Carolina at Charlotte

for their poster

Determination of Cutting Forces Using a Flexure-Based Dynamometer: Deconvolution of Structural Dynamics Using the Frequency Response Function

Best Poster Presentation awarded to:

Devin R. Beaulieu and Thomas G. Bifano
Department of Electrical and Computer Engineering
Photonics Center - Boston University

for their poster

Surface Metrology Using Extended-Range Partitioned Aperture Wavefront Sensing

Best Poster Presentation awarded to:

David R. Cayll, Ian S. Ladner, Joon Hyong Cho, and Michael A. Cullinan
Department of Mechanical Engineering
The University of Texas at Austin
Austin, Texas, United States of America

for their poster

MEMS-Based Graphene Resonant Gas Sensor for Health Monitoring

Student Challenge -- First Place Team:

UNC-Charlotte

Kumar Arumugam

Jhn Borek

Alex Blum

Jacob Cole

Dr. Joshua Tarbutton, Advisor

Student Challenge – Second Place Team:

MIT

Tyler Hamer

Aaron Ramirez

Lei Zhou

Brij Bhushan

Hilary Johnson

Andrew Duenner

Professor David Trumper, Advisor