

MECHANICAL ENGINEERING FACULTY

Allen Robinson

Professor, 1998–, Raymond J. Lane William J. Brown Professor, 2002–, Distinguished Professor and Department Head, 2013–

Paul Steif

Professor, 1983–, Associate Department Head, 2013–

Shelley Anna

Professor, 2003–

Mark Bedillion

Associate Teaching Professor, 2016–

Jack Beuth

Professor, 1992–

Jonathan Cagan

George Tallman & Florence Barrett Ladd Professor, 1990–, and Associate Dean, 2015–

Steven Collins

Associate Professor, 2010–

Maarten de Boer

Professor, 2007–

Jimmy Hsia

Professor, 2015–

B. Reeja Jayan

Assistant Professor, 2015–

Aaron Johnson

Assistant Professor, 2016–

Levent Burak Kara

Professor, 2007–

Philip LeDuc

William J. Brown Professor, 2002–

Shawn Litster

Associate Professor, 2008–

Carmel Majidi

Associate Professor, 2011–

Jonathan Malen

Associate Professor, 2009–

Alan McGaughey

Professor, 2005–

Jeremy Michalek

Professor, 2005–

O. Burak Ozdoganlar

Ver Planck Professor, 2004–

Albert Presto

Assistant Research Professor, 2012–

David Quinn

Special Faculty, 2016–

Yoed Rabin

Professor, 2000–

Edward Rubin

Alumni Chair Professor, 1969–

Sheng Shen

Associate Professor, 2011–

Kenji Shimada

Theodore Ahrens Professor of Engineering, 1996–

Satbir Singh

Assistant Teaching Professor, 2012–

Koushil Sreenath

Assistant Professor, 2013–

Ryan Sullivan

Assistant Professor, 2012–

Subra Suresh

President, Carnegie Mellon University

Rebecca Taylor

Assistant Professor, 2016–

Venkat Viswanathan

Assistant Professor, 2014–

Kate Whitefoot

Assistant Professor, 2016–

Shi-Chune Yao

Professor, 1977–

Yongjie Jessica Zhang

Professor, 2007–

EMERITI

Adnan Akay

Lord Professor and Head, Emeritus, 1992–

Norman Chigier

Professor, Emeritus, 1981–

Jerry Griffin

William J. Brown Professor, Emeritus, 1981–

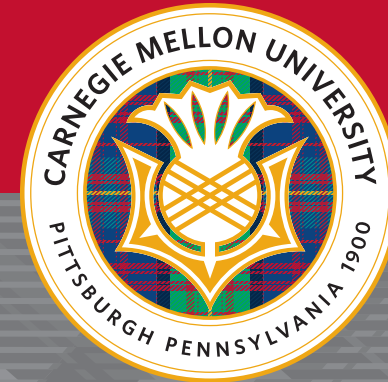
Wilfred Rouleau

Professor, Emeritus, 1954–

DEPARTMENT OF MECHANICAL ENGINEERING

CONFERRING OF DEGREES AND AWARDS CEREMONY

MAY 20, 2017



CEREMONY AWARDS

The **Design Expo Winners**, selected by attendee vote, conceptualize and implement novel product ideas through a formal design process in the senior capstone classes.

Awardees:

Overall best Design - Fall

Core 3 Drink Stabilizer

Team member names:

Andreas Fatschel Anthony Rueda
Nickolas Halbedl Ryan Pearce
Anthony Rueda Nathaniel Thompson

Overall best design - Spring

Multi-color Pancake printer

Team Member names:

Justin Abel Osvaldo Chimalpopoca
Aaron Tian Joshua Fuhrman

Overall best design, Section B -Spring *"TruLie"*

Team Member names:

Samer Abdelmoty Andrew Chellman
Nadia Florman Alyssa Meyer
Stephen Scott Alex Woodward

Department Research Honors recognizes graduating seniors who meet rigorous academic criteria and complete a two-semester research project under the supervision of a Mechanical Engineering faculty member.

Awardees:

Frank Bello IV Jon Cagan

"Analyzing Cognitive Design Process via Machine Learning"

Nicole Bustos Alan McGaughey

"Model for predicting maximum focused ultra-sound induced cavitation bubble size in soft material"

Turga Ganapathy Jon Malen

"Near-Field Thermal Radiation and Gas Conduction in a Nanostructured Gap Measured by Frequency Domain Thermoreflectance (FDTR)"

Kyung Min Lee Kenji Shimada

"Computational Method for Complex Geometric Patterns on 3D Printed Customizable Jewelry"

Alexander Russell Satbir Singh

"Direct Numerical Simulations (DNS) of Aerosol Deposition in Turbulent Flows"

Allan Wang Koushil Sreenath

"Vision System for Biped Robotic Walking on Stepping-stones"

June Williams Jon Cagan

"Impact of Environmental Stimuli on the Design Process"

The **Undergraduate Excellence in Research Award** recognizes senior research excellence based on presentations at the Meeting of the Minds research symposium on May 10, 2017.

Awardees:

Nicole Bustos

Turga Ganapathy

Alexander Russel

The **Bennett and Forstall Awards** are given for excellence in Mechanical Engineering.

Bennett Awardees:

Andrew Chellman
Jason Dynes
Alex Woodward

Forstall Awardees:

Melyssa Eigen
Yichu Jin
Margaret Anne Smith

The **Graduate Research Symposium Awards** recognize Master of Science research excellence based on presentations at the Mechanical Engineering Graduate Research Symposium on March 31, 2017.

Awardees:

Ayush Agrawal: *"Controllers for Bipedal Robot Navigation"*

Paul Choi: *"In-Operando Imaging of Dendrites Using Nanoscale X-Ray Computed Tomography and Epoxy-Free Sample Assembly"*

Purva Joshi: *"Computerized Planning of Prostate Cryosurgery and Shape Considerations"*

Richard Ren: *"Deformed State Lattice Planning"*

The **Teaching Assistant Awards** are presented to the best graduate student teaching assistant Fall and Spring, as evaluated by students in their class.

Awardees:

TA Fall 2016 – **Oleg Spaunkov**

TA Spring 2017 – **Thomas Brubaker**

The **Doctoral Research Award** honors a top PhD student for outstanding achievements in research over the course of graduate study.

Awardee:

Christopher McComb

The **Jeremiah Mpagazehe Graduate Student Service Award** recognizes service and contributions to the graduate student community by both a Master's and Ph.D. student.

Awardee:

MS Student- **Anchit Sood**

PhD Student- **Luke Scime**

The **Judith A. Resnik Award** was established by Carnegie Mellon University in 1990 to honor the life and impact of Challenger astronaut and alumna, Judith Resnik (E 1970). The award is given to recognize and encourage an exceptional senior woman graduating with an undergraduate technical course of study. The awardee must be pursuing graduate or professional training in a technical field.

Awardee:

Nicole Bustos

PROGRAM

WELCOME

Allen Robinson

Raymond J. Lane Distinguished Professor and Department Head

RECOGNITION OF SENIOR DESIGN EXPO WINNERS

Kate Whitefoot, *Assistant Professor*

RECOGNITION OF DEPARTMENT RESEARCH HONORS

Carmel Majidi, *Associate Professor*

PRESENTATION OF MECHANICAL ENGINEERING AWARDS

Undergraduate Excellence in Research Award

Maarten de Boer, *Professor*

The Bennett Awards

Koushil Sreenath, *Assistant Professor*

The Forstall Awards

Levent Burak Kara, *Professor*

Graduate Research Symposium Awards

Ryan Sullivan, *Assistant Professor*

Teaching Assistant Awards

Mark Bedillion, *Associate Teaching Professor*

Jeremiah Mpagazehe Graduate Student Service Award

Alan McGaughey, *Professor*

PRESENTATION OF UNIVERSITY AWARD

Judith A. Resnik Award

Alan McGaughey, *Professor*

PRESENTATION OF DIPLOMAS

Allen Robinson, Paul Steif, Satbir Singh and Jonathan Malen, *Professors*

Professional photographs of each graduate will be taken and available on our website in June at cmu.edu/me

— Following the ceremony, please join us for refreshments at the reception area. —