ENGAGED LEARNING WEEK - TUESDAY, FEBRUARY 6

Welcome by Susan Kress,
Executive Director of Engaged Learning

CREATIVE PROJECT PANELS

10:05  PANEL 1

*Opening Doors to Expand the Field of Music Therapy in South Korea: A Resource for International Job Mobility*
Hyun Shin ’18 – MUY; Mentor: Dr. Daniel Tague

*Musical Theatre and Mental Health Education: Next to Normal and the Audience*
Samuel Weber ’18 – BOLSC, CHEM, HLTHSOC; Mentor: Dr. Carolyn Smith-Morris

10:20  PANEL 2

*Something New*
Blaze Hubbell ’18 – THEA; Mentor: Dr. Gretchen Smith

*On Flowers and Butterflies: Femininity and the Asian-American Body*
Jessica Ma ’18 – THEA; Mentor: Dr. Gretchen Smith

10:40  PANEL 3

*Writing about Theatre: Audiences, Actors, Reviews, and Critical Viewpoints*
Katie Ibrahim ’18 – THEA; Mentor: Dr. Gretchen Smith

*An Actor’s Pilgrimage*
Caroline Hamilton, ’18 – THEA; Mentor: Dr. Gretchen Smith

*America & Asia: The Amalgamation of Two Contradictory Cultures in the Art of Performance*
Ferdos Heidari ’18 – THEA; Mentor: Dr. Gretchen Smith

11:00  PANEL 4

*Deadly Sins*
Rachel Cocke ’18 – FILM; Mentor: Mr. Troy Perkins

*Androids*
Jacob Estrada’18 – FILM; Mentor: Mr. Troy Perkins

11:20  PANEL 5

*Pandora Radio and Converse Ads*
Kendall Kramer ’18 – FILM; Mentor: Dr. Mark Kerins

*Converse and Pandora Ads*
Madeline Khare ’18 - ADV; Mentor: Mr. Willie Baronet

11:40  PANEL 6

*Rhyme to Reason: An Analysis of Lyricism and Themes of Rap Music and Their Correlation to Culture*
Sydney Clark ’18 – ANTH, ENGL; Mentor: Mr. David Haynes

*The Language of Dance: Connecting Across Boundaries*
Alison Machabee ’18 – DANCPE; Mentor: Ms. Patty Harrington
TUESDAY, FEBRUARY 6 continued

12:00  LUNCH SEMINAR

Projecto PaleoAngola: A Paleontological Exhibition at the Smithsonian Institution
Myria Perez ’18 – GEOL; Mentor: Dr. Louis Jacobs

1:00  PANEL 7

Things That Never Happened: A Chapbook
Angelica Reisch ’18 – ART; Mentor: Ms. Lauren Smart

U.K. NewsWeb
Jacquelyn Elias ’18 – CRCOMP, JOUR; Mentor: Mr. Ira Greenberg

Art Can Heal
Julia Jalowiec ’18 – ARST;
Mentor: Mr. Brian Molanphy
ENGAGED LEARNING WEEK - WEDNESDAY, FEB 7

Introductory Remarks by Dr. Robert Kehoe,
Director of Undergraduate Research

NATURAL SCIENCE RESEARCH PANELS

10:05 PANEL 1

**Viruses in Freshwater: A Historical Record of Past Pollution?**
Theresa Lam ’18 – BIOLSC; Mentor: Dr. Fredrick Olness

**Using Caenorhabditis Elegans as a Model Organism for Genetic Screening**
Nicole Rueb ’18 – BIOLSC, STATSC; Mentor: Dr. Fredrick Olness

10:30 PANEL 2

**fMRI for Neurofeedback of Brain State During Listening to Music**
Tolulope Salako ’18 – BIOLSC, PSYC, HNS; Mentor: Dr. Fredrick Olness

**Redox Signaling in the Endoplasmic Reticulum and Alzheimer’s Disease**
Ololade Okunlola ’18 – BIOLSC; Mentor: Dr. Sveta Radyuk

**Manipulation of Flavoproteins with Small Molecules**
Priya Patel ’18 – BIOCHM; Mentor: Dr. Brian Zoltowski

11:00 PANEL 3

**Fluorescence Aided Navigation of Magnetic Microbots and Delivery of Molecular Cargos**
Justin Musser ’18 – BIOLSC; Mentor: Dr. Alexander Lippert

**True-color Three-Dimensional Image Display**
Anthony Spearman ’18 – CHEM; Mentor: Dr. Alexander Lippert

11:30 PANEL 4

**Study of Cosmic Distance Ladder from Cepheids and Supernova by using Robotic Optical Transient Search Experiment (ROTSE) Telescopes**
Jasmine Liu ’18 – PHYS, MATH; Mentor: Dr. Robert Kehoe

**The ATLAS Project**
Payton Price ’18 – PHYS, MATH; Mentor: Dr. Jingbo Ye

2:00 PARTICLE FEVER by Mark A. Levinson and David E. Kaplan (2013) Hughes Trigg Theatre
The film *Particle Fever* tells the story of our generation’s most significant scientific breakthrough. The film follows six brilliant scientists during the launch of the Large Hadron Collider, marking the start-up of the biggest and most expensive experiment in the history of the planet.

Q&A follows, moderated by the Physics Department.
ENGAGED LEARNING WEEK - THURSDAY, FEBRUARY 8

Introductory Remarks by Dr. Robert Kehoe,
Director of Undergraduate Research

RESEARCH ACROSS DISCIPLINES PANELS

10:05  PANEL 1

Ryan Cross ‘18 – INTLST, PLSC; Mentor: Dr. Victoria Farrar-Myers

Applying the Bootstrap for Variance Across All Sample Sizes to Infer Risk Factors for Projects of Varying Size
Neil Martin ‘18 – STATSC; Mentor: Dr. Monnie McGee

Make Crowdfunding Easy
Arthur Work ‘18 – FINA; Mentor: Mr. James Hart

10:30  PANEL 2

The Role and Nature of Women’s Movements in Peru
Jessica Jancose ‘18 – HMRTS; Mentor: Dr. Nia Parson

Presidential Sovereignty and the Electoral System: A Comparative Study
Rachel Forster ‘18 – FREN, SPAN, PLSC; Mentor: Mr. Thierry Tirado

Exploring Internalized Oppression Through Perceptions of Gender “Equality”
Karly Zrake ‘18 – ANTH, HRTS; Mentor: Dr. Bradley Klein

11:00  PANEL 3

Identity Based Audience Bias Against Speakers
Fairooz Adams ‘18 - PLSC; Mentor: Dr. Matthew Wilson

Finding the Way Home: Refugee Memoirs and Experiences in the Dallas Area
Sidra Ibad ‘18 – BIOCHM;
Mentor: Dr. Liljana Elverskog

The Nazi Holocaust Camps in Poland through the Lens of an American
Gordon Lum ‘18 – FINA;
Mentor: Dr. Serge Frolov

SERVICE PROJECT PANELS

11:30  PANEL 4

Geared Up National Expansion
Aleena Taufiq ‘18 - MATH, ME; Mentor: Ms. Kristine Reiley

Technology Literacy For Refugees
Uroob Haris ‘18 – CHEM, BA; Mentor: Dr. Karin Quinones

Equipping Friends and Family to Support Rape Survivors
Angela Wang ‘18 – HRTS, BIOCHM; Mentor: Ms. Valerie Erwin

12:00  PANEL 5

The Case for Handmade
Silvia Rivera ‘18 – INTLST, SPAN;
Mentor: Dr. Eva Csaky
THURSDAY, FEBRUARY 8, continued

Women Ambassadors Forum
Mirka Serrato '18 – BA; Mentor: Ms. Luisa del Rosal

* LUNCH BUFFET

ENGINEERING SOLUTIONS PANELS

12:30  PANEL 6

Solid Rocket Motor for Experimental Rocket Applications
Noah Bartos '18 – MATH, ME; Mentor: Dr. Paul Krueger

Optimized Aero-structures Subsystem for Experimental Rocket Applications
Trenton Blake ‘18 – ME; Mentor: Dr. Paul Krueger

Dual-Deployment Recovery System for Experimental Rocket
Michael Keay ‘18 – ME, MATH; Mentor: Dr. Volkan Otugen

1:00  PANEL 7

Outfitting a Bicycle Sidecar for People with Disabilities
Anna Sobchak ‘18 – MATH, ME; Mentor: Dr. Edmond Richer

Power Assist Bicycle Sidecar for People with Disabilities
Scott Styslinger ’18 – MATH, ME; Mentor: Dr. Edmond Richer

1:15  PANEL 8

Rural Broadband High Speed Internet Accessibility
Madalene Caldwell ‘18 – EE; Mentor: Dr. Joseph Camp

Rural Broadband High Speed Internet
Jennifer Reese ‘18 – EE, MATH; Mentor: Dr. Joseph Camp

1:30  PANEL 9

Engineering Bacterial Flagellar Forests For Sensing and Actuation
Xihe Liu ‘18 – ME; Mentor: Dr. MinJun Kim

Controlled Environment Agriculture Technologies
Adrienn Santa ‘18 – MATH, ME; Mentor: Dr. Ali Beskok

Sustainability Measures: Water Distribution NGO Projects
Rachael Rodgers ’18 – CE; Mentor: Dr. Andrew Quicksall

2:00  PANEL 10

Project Management of an Autonomous Tour Guide
Claire Johnson ‘18 - ME; Mentor: Dr. Ali Beskok

Mechanical Systems of an Autonomous Tour Guide
Haley Hannenberg ‘18 – ME; Mentor: Dr. Sheila Williams

Navigation Development for Autonomous Tour Guide
Jakob Wells ‘18 – MATH, EE; Mentor: Dr. Joseph Cleveland

Conceptualizing a Carbon-Capturing Drone
Tony Garcia ‘18 – PSYC; Mentor: Dr. Duncan MacFarlane

2:30  PANEL 11

Portable Research Platform Sensor Payload
Matthew Blake ’18 – MATH, EE; Mentor: Dr. Dario Villareal
Research Platform for the Investigation of Environmental and Brain Measurements
Ashmi Patel ’18 – ME, BIOMED; Mentor: Dr. Dario Villareal

Portable Lower-Limb Sensing Research Platform for Robotic Exoskeleton Applications
Ophelie Herve ’18 – ME; Mentor: Dr. Dario Villareal