

## 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 – MUTY; Mentor: Dr. Daniel Tague

***Musical Theatre and Mental Health Education: Next to Normal and the Audience***

Samuel Weber '18 – BIOLSC, 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 – DANCPF; 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

***Forecasting the Impact of Dynamic North American Energy Policies on Hunt Consolidated, Inc.***

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