



ENGAGED LEARNING SPRING SYMPOSIUM

February 6 and 7, 2017

ENGAGED LEARNING STUDENT PRESENTATIONS

Hughes-Trigg Student Center Forum

Monday, Feb 6

9:30 Research

3:15 Environmental Engineering

Tuesday, Feb 7

9:00 Creative

12:00 Mechanical & Electrical Engineering

Open to All • Buffet Lunch

ENGAGED LEARNING WEEK - MONDAY, FEB 6

- 9:15 Welcome by Susan Kress,
Executive Director of Engaged Learning
- 9:20 Introductory Remarks by Dr. Robert Kehoe,
Director of Undergraduate Research

RESEARCH

- 9:30 Panel 1
Understanding the Molecular Basis of Brain Degeneration
Joseph Di Pane '17 – BIOLSC, HIST; Mentor: Dr. Santosh D'Mello
Investigating peroxiredoxin impact on AMP production, redox state, and lifespan
Noah Earland '17 – BIOLSC; Mentor: Dr. William Orr
Detailed Analysis of Polycomb Response Elements
Evan Caston '17 – HLTHSOC, BIOLSC; Mentor: Dr. Richard Jones
- 10:00 Panel 2
Rhodamine-Derived Optical Switch for Three-Dimensional Image Generation
Shreya Patel '17 – CHEM; Mentor: Dr. Alexander Lippert
Development of a Chemiluminescent Spray for the Detection of H2S
Stefan Raicevic '17 – CHEM; Mentor: Dr. Alexander Lippert
Synthesis of Bismuth-Containing Polymers
Sarah Seger '17 – EE; Mentor: Dr. Nicolay Tsarevsky
- 10:45 Panel 3
Your Right to Health: A Maternal-Child Health Toolkit
Dominique Earland '17 – HRTS, BIOLSC; Mentor: Dr. Bradley Klein
Affecting Change Through Empowerment
Hannah Norris '17 – HLTHSO; Mentor: Dr. Carolyn Smith-Morris
- 11:00 Panel 4
The Future of Beta-Lactamase
Shilpa Kudva '17 – BIOL, MUSIC; Mentor: Dr. Peng Tao
Monosodium Glutamate: Healthy or Harmful Food Addictive?
Duyen Le '17 – MATH; Mentor: Dr. Teresa Strecker

MONDAY, FEB 6, cont.

- 12:00 Panel 5
Concorde, America, and the Quest for Supersonic Travel
Jake Moon '17 – ADV; Mentor: Dr. Laurence Winnie
Society's and the Art Market's Perceptions of Pre-Columbian Aesthetics and Styles
Morgan Fatora '17 - FINA Mentor: Dr. Adam Herring
What To Do With Your Body When You're Done With It
Marco Miranda '17 – ENVENG; Mentor: Dr. Wenjie Sun
- 12:30 Panel 6
Movement, Privilege, and Power: Migration as a Transnational Human Right
Hope Anderson '17 – HMRTS, HIST, SOCI; Mentor: Dr. Brad Klein
Asia's Contested Waters: The East & South China Seas
Claire Huitt '17 – PLSC, PPOL, ECO; Mentor: Dr. Hiroki Takeuchi
Muslim Integration: A comparative study of London and Dallas
Syed Rizvi'17 – PLSC, HMRTS; Mentor: Dr. LaiYee Leong
Comparative Democratization in Argentina & Uruguay
Michael Robertson '17 – PLSC, ENGL; Mentor: Dr. Luigi Manzetti
- 1:00 Panel 7
The Association between the DSM-5 pathological personality traits and Violence
Marissa Jennings '17 – PSYC; Mentor: Dr. Michael Chmielewski
Characterizing the Evolution of Medical School Curriculum in London
Haley Stutts '17 - BIOLSC, HLTHSOC; Mentor: Dr. Carolyn Smith-Morris
- 1:15 Panel 8
Regulation of Waste in Region 6 by the EPA
Uma Lad '17- ENVSCI; Mentor: Dr. Bonnie Jacobs
Using barometry to constrain depths in the Transverse Ranges Tilted Crustal Section, CA
Madi Weaver '17 – GEOPHY; Mentor: Dr. Rita Economos
- 1:30 Panel 9
Improving Goal Attainment among Early Career Allied Health Professionals
Dylan De Muth '17- CHEM, ECO; Mentor: Dr. Eric Bing
Improving Academic Outcomes and Overall Well-Being among Students with ADHD
Kaitlin Ostling '17 – HLTHSOC; Mentor: Dr. Eric Bing
Can Meditation Impact Gender Differences in Implicit Visual Processing?
Katie Price '17 – PSYC; Mentor: Dr. Alan Brown

MONDAY, FEB 6, cont.

COMMUNITY ENGAGEMENT

- 2:00 Panel 10
Health Education for Refugees with the Integration of ESL Software
Michael Park '17 – MGMT, BIOLSC; Mentor: Dr. Karin Quinones
Technology Literacy Training for Refugees
Anna Landreneau '17 – MKTG; Mentor: Dr. Karin Quinones
Technology Literacy Training For Refugees
Kovan Barzani '17 – PP, ECO, MGMT; Mentor: Dr. Karin Quinones
- 2:30 Panel 11
Out of Classroom Education for Dallas Young Scholars
Steven Altmaier '17 – REFINA; Mentor: Dr. Karin Quinones
Big iDeas Jumpstart
Josh Thomas '17 – ME; Mentor: Mr. Mickey Saloma
- 3:00 Panel 12
Unfair Fair Park?
Kayla Graves '17 – HIST; Mentor: Dr. Lucas Kirkpatrick
Green City Initiative: A Comparative Study
Wendy Alyea '17 – CHEM, ENVENG; Mentor: Dr. Elaine Heath

ENVIRONMENTAL ENGINEERING

- 3:15 Panel 13
Water the World: From SMU to Bolivia
Andrew Timmins '17 – ME; Mentor: Dr. Andrew Quicksall
- 3:30 Panel 14
In-situ Remediation and Distribution Network in Rwanda: Solar Power
Sam Coday '17 - EE; Mentor: Dr. Andrew Quicksall
In-situ Remediation and Distribution Network in Rwanda: Electrical Control System
Nathaniel Johnson '17 – EE; Mentor: Dr. Andrew Quicksall
In-situ Remediation and Distribution Network in Rwanda: Chlorine Disinfection
Holly McCuiston '17 – ENVENG; Mentor: Dr. Andrew Quicksall
In-situ Remediation and Distribution Network in Rwanda: Iron Remediation
Rachel Masters '17 – ENVENG; Mentor: Dr. Andrew Quicksall
In-situ Remediation and Distribution Network in Rwanda: Water Resources
Tara Baumgartner '17 – ENVENG; Mentor: Dr. Andrew Quicksall

ENGAGED LEARNING WEEK - TUESDAY, FEB 7

CREATIVE

- 9:00 Panel 1
New Music For Stage
Gillian Perry '17 – FILM, MUCM; Mentor: Dr. Lane Harder
Traveling Exploration Artist Residency
Sally Kim '17 – ASAG; Mentor: Mr. Brian Molanphy

Mustangs for Fair Labor
Samantha Butz '17 – ADV, FASHMD; Mentor: Mr. Willie Baronet, Temerlin
- 9:30 Panel 2
Pioneers: Women, Theatre, Politics
Leslie Ballart '17 – THEA; Mentor: Dr. Gretchen Smith
Brothers of a Mother Tongue
Dalton Fowler '17 – THEA; Mentor: Dr. Gretchen Smith
- 9:45 Panel 3
Boy
Lawrence Jiang '17 - MNO, FILM; Mentor: Dr. Mark Kerins
Stories
Jessica Cole '17 – ART, FILM; Mentor: Dr. Mark Kerins
- 10:00 Panel 4
Data Structures from a New Perspective
Brittini Watkins '17 - CRCOMP; Mentor: Mr. Ira Greenberg
Design of Digital Music Synthesizers
Conrad Appel '17 – CPE; Mentor: Dr. Scott Douglas

Dance as the Mirror of Society
Olivia Schmid '17 – DANCPF; Mentor: Ms. Myra Woodruff
- 11:00 Panel 5
The Effect of Korean Entertainment on American Health and Beauty Standards
Arianna Santiago '17 – EE; Mentor: Dr. Hye Jin Yoon
The Observed and Self- Reported Benefits of Creative Music Making with Adult Females in a Weight Loss Program
Nilsa Pozo Ortiz '17 – MUTY; Mentor: Dr. Robert Krout
The Annual Report: An Editor's Guide to Creating Yearbooks
Alicia Smiley '17 - ENVENG; Mentor: Mr. Jay Miller

TUESDAY, FEB 7, cont.

MECHANICAL & ELECTRICAL ENGINEERING

- 12:00 Panel 6
DC Induction Motor
Rory Brogan '17 – EE; Mentor: Dr. Behrouz Peikari
- DC for the Developing World**
Yasaman Sahba '17 – EE; Mentor: Dr. Carlos Davila
- Automotive Wind Power Generation**
Andrew Posada '17 – ME; Mentor: Dr. Carlos Davila
- Energy Analysis of Habitat for Humanity Homes in Taos, New Mexico**
Camille Aucoin '17 MATH, EE; Mentor: Dr. David Doyle
- 12:30 Panel 7
Low Cost Bioelectric Impedance Analysis Device
Mar McCreary '17 – ME; Mentor: Dr. Ahmet Sabuncu
- Low Cost Bioelectric Impedance Analysis Device**
Danya Hoban '17 – ME; Mentor: Dr. Ahmet Sabuncu
- Low Cost Bioelectric Impedance Analysis Device**
Allison Garcia '17 – EE; Mentor: Dr. Ahmet Sabuncu
- 1:00 Panel 8
Software and Electrical Design for an Autonomous Drone Delivery System
Edward Li '17 – EE; Mentor: Dr. Carlos Davila
- Mechanical Design of an Autonomous Drone Delivery System**
Austin Flanagan '17 – ME; Mentor: Dr. Carlos Davila
- 1:15 Panel 9
Control System Design in Wheeled Robot
John Lujano '17 – ME; Mentor: Dr. Yildirim Hurmuzlu
- Mechanical Design of a Wheeled Robot**
Gwen Ward '17 – ME; Mentor: Dr. Yildirim Hurmuzlu
- 1:30 Panel 10
Formula SAE Front Suspension Design
Ari Colton '17 - ME ; Mentor: Dr. Dona Mularkey
- Formula SAE Spring and Damper**
Theeban Ganeshan '17 – ME; Mentor: Dr. Dona Mularkey
- Formula SAE Steering**
Austin Haldeman '17 – ME; Mentor: Dr. Dona Mularkey

TUESDAY, FEB 7, cont.

- 2:00 Panel 11
Testing Oxidative Stress through pH of Exhaled Breath
Rory Quigley '17 – ME; Mentor: Dr. Dona Mularkey
- 2:20 Panel 12
From Street to Stage
Deepa Liegel '17 - DANCPF; Mentor: Dr. Shelley Berg



ENGAGED LEARNING WEEK - FRIDAY, FEB 10

YOU ARE INVITED!

Join us on Friday, Feb 10, at 10 am for a special presentation by Dr. Gayle Slaughter, Ph.D., Senior Associate Dean for Graduate Education and Diversity, Baylor College of Medicine, Baylor University.

Dr. Slaughter will speak on how Engaged Learning activities in college can lead to career success in her talk "From Dirt Roads to the Oval Office."



SMU recognizes students who actively engage in research, service, internships and other creative, entrepreneurial activities related to their studies that have enhanced their academic experiences.

Engaged Learning challenges students to learn beyond the classroom, taking an active role in their education by bringing their disciplinary training and intellectual capital to bear on issues in real-world settings. Students may realize their own project ideas or participate in engaged learning activities offered by various SMU departments, offices and programs.

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