

JUDGING PANEL

BRUCE APPLIGATE, Ph.D., Professor, Department of Food Science

Bruce Applegate joined the Purdue faculty in 2001 and currently is a Professor in the Department of Food Science with a courtesy appointment in the Department of Biological Sciences. He performed his doctorate work at the Center for Environmental Biotechnology at the University of Tennessee at Knoxville. His current research consists of both an applied and fundamental focus using molecular approaches to develop platforms for the detection of pathogenic bacteria in matrices and examining problematic foodborne bacteria (pathogens/spoilage) associated with processing, survival, inactivation, and dissemination. His interdisciplinary training has facilitated numerous interactions across Purdue, spanning six colleges and sixteen departments, and is a member of the USDA funded Center for Food Safety Engineering. While at Purdue, he has mentored 30+ undergraduate researchers. He has coauthored 60+ peer reviewed manuscripts, 13 proceedings, 8 book chapters, 120+ research abstracts and has delivered 50+ invited presentations. He is also the named inventor on 11 United States patents. He serves as an instructor in workshops associated with other aspects of food safety, including Better Process Control School, European Hygienic Engineering & Design Group, and the FDA Food Processing and Technology Course.

STACEY CONNAUGHTON, Ph.D., Professor, School of Communication

Stacey L. Connaughton (Ph.D., The University of Texas at Austin) is a Professor in the Brian Lamb School of Communication at Purdue University and the Director of the Purdue Policy Research Institute (PPRI) in Purdue's Discovery Park District. Her research examines leadership and multi-stakeholder organizing, most recently in the context of political violence prevention initiatives. Dr. Connaughton serves as Director of the Purdue Peace Project (PPP), housed in the Purdue Policy Research Institute. As Director of the PPP, Dr. Connaughton has led the multi-stakeholder relationship building, project development, and (participatory) monitoring and evaluation for locally led political violence prevention initiatives in Ghana, Liberia, and Nigeria.

PETE MICHALAKOS, Ph.D., Director of Thermal Protection Systems,
Blue Origin

Pete Michalakos is building the road to space as Director of Thermal Protection Systems for Blue Origin. For millions of people to live and work in space to benefit earth, space access must be affordable. That means launch vehicles must be reusable, not expendable. The thermal protection system allows launch vehicles to survive the reentry flight segment and quickly turn around to meet commercial launch cadences. That requires an affordable solution to survive speeds of up to Mach 25 and endure 2500°F, not once but up to forty times. Prior to Blue, Pete spent 25 years making the world safer and more energy efficient with Honeywell Aerospace. He has invented over thirty issued or pending US Patents, won eight corporate Technical Achievement Awards, captured the USA Today Quality Cup, certified as a Six Sigma Green Belt, and earned a PhD in chemical engineering from Northwestern University.



UNDERGRADUATE RESEARCH PITCH COMPETITION

TELLING THE STORIES OF

RESEARCH

Co-hosted by
the Undergraduate Research Society of Purdue &
the Purdue Office of Undergraduate Research

MARCH 24 | 7PM | FOWLER HALL

STUDENT PARTICIPANTS



Sanchita Chakraborty, College of Science
"Finite Element Method to Approximate Solutions to the 1D Schrodinger Equation"

Willow Kamradt, College of Agriculture
"The Hypothetical Biology of Dragons"



Vincent Calhoun College of Health & Human Sciences
"Embracing Toxicology to Fight Mental Disease"

Elise Miller, College of Science
"The Effects of PTSD Service Dogs on Veteran Families"



Iman Mevaa, College of Science
"Bacteriophages: Can Viruses Save Us from Bacteria?"

Kal Holder, Colleges of Science & Liberal Arts, Honors College

"Characterizing Mechanistic Reasoning in the Context of Biofilm Formation by Biology Undergraduate Students"



Reagan Bushok, College of Engineering
"Improving Women's Health, One Microbiome at a Time"

Maya Federle, College of Engineering

"Role of Vitamin D Metabolism Pathways in Osteoarthritis Risk and the Gut-Joint Axis"



Carl Russell III, College of Engineering
"Exploring How the Human Body Works Through Biosensors "

Kevin Bautista, College of Engineering
"Hopping Over Barriers: A Kanga Story "



SPONSORS

The Undergraduate Research Pitch Competition planning committee thanks Arni's Restaurant and the SOGA Grant for funding for this event.

AUDIENCE CHOICE

Following the presentations, you will select your favorite pitch and will receive the \$100 audience favorite award.



OUR Scholarship
**Deadline:
March 28**



OUR Scholarship
**Deadline:
March 28**



Undergraduate
Research
Conference
April 11-18

In-person events 4/12 & 4/14



Undergraduate
Research
Conference
April 11-18

In-person events 4/12 & 4/14



Celebrate Purdue's
Thinkers, Creators,
& Experimenters
April 21 (11:30-2:30)
Purdue Union

Priority registration: 4/4



Celebrate Purdue's
Thinkers, Creators,
& Experimenters
April 21 (11:30-2:30)
Purdue Union

Priority registration: 4/4

SCAN & GO

HOW TO GET STARTED IN UNDERGRAD RESEARCH



INFORMATION ON THE OUR SCHOLARSHIP



UPCOMING SEMINARS

3/28 & 3/29: CREATING/DESIGNING A POSTER

3/31: POSTER WORK DAY

4/4: CREATING/PRESENTING A RESEARCH TALK

4/18: UNDERGRAD RESEARCH 101: GETTING STARTED

4/25: MARKETING YOUR RESEARCH EXPERIENCE

REGISTER TO RECEIVE ZOOM LINK ONLINE

SIGN UP TO RECEIVE RESEARCH SOCIETY UPDATES AT

PURDUE.EDU/UNDERGRAD-RESEARCH/STUDENTS/SOCIETY.PHP

SUBSCRIBE TO THE UNDERGRAD RESEARCH NEWSLETTER AT

PURDUE.EDU/UNDERGRAD-RESEARCH

SCAN & GO

HOW TO GET STARTED IN UNDERGRAD RESEARCH



INFORMATION ON THE OUR SCHOLARSHIP



UPCOMING SEMINARS

3/28 & 3/29: CREATING/DESIGNING A POSTER

3/31: POSTER WORK DAY

4/4: CREATING/PRESENTING A RESEARCH TALK

4/18: UNDERGRAD RESEARCH 101: GETTING STARTED

4/25: MARKETING YOUR RESEARCH EXPERIENCE

REGISTER TO RECEIVE ZOOM LINK ONLINE

SIGN UP TO RECEIVE RESEARCH SOCIETY UPDATES AT

PURDUE.EDU/UNDERGRAD-RESEARCH/STUDENTS/SOCIETY.PHP

SUBSCRIBE TO THE UNDERGRAD RESEARCH NEWSLETTER AT

PURDUE.EDU/UNDERGRAD-RESEARCH