

Inspiring a New Generation of Scholars and Scientists

You are invited to participate in this series of workshops designed to help students meet faculty members and learn about the exciting research they are conducting. You will come away from these sessions inspired and looking for ways to get involved. WSU's New Strategic Plan calls upon faculty to partner with students in providing "a premier education and transformative experience that prepares students to excel in a global society."

Don't miss this opportunity to engage with some of WSU's finest Professors and Researchers!

This fall's lineup:

Dr. Laura Lavine

Department of Entomology
335-7907 • lavine@wsu.edu

October 1 • Noon–1:00 p.m. • CUB 406

***Size Really Does Matter!
Dissecting the Role of Genetics
in the Control of Body Size in
Beetles and Moths***

Discussion about how genes and the environment are responsible for controlling body size in animals. I will discuss my own research into this topic using horned beetles as my example. I will also briefly discuss other ongoing genetic projects in my lab on pest insects including the flour beetle (yes, those little brown things in your flour ARE beetles) and the codling moth (a destroyer of Washington's state fruit, the apple).

The Division of
Student Affairs,
Equity and
Diversity

Dr. John Alderete and Research Team

Assoc. Vice Provost for Research,
Professor, School of Molecular
Biosciences, and Director, Center for
Integrated Biotechnologies
335-6424 or 7008 • alderete@wsu.edu
www.biotechnology.wsu.edu

October 7 • 4:00–5:00 p.m. • CUB 406

***The Magnitude and Consequences
of STDs and Trichomonas
Vaginalis and A Scientist Invents a
Diagnostic for the Number 1 STD***

This workshop will present data overview on the non-HIV sexually transmitted diseases (STD), followed by a presentation of recent research findings on the number one STD caused by *Trichomonas vaginalis*. Among the questions to be answered are the following: What are the symptoms associated with this STD? Why are most women without symptoms? What are the adverse health consequences to women and men? What are hallmark properties and factors of the parasite that cause disease? How does infection take place in the urogenital tract? Why are women infected forever unless diagnosed and treated? How do ivory tower researchers give back to community?

Dr. Susan Ross and Peace Research Group

(5 Ph.D. students in CES, Women's
Studies, Com, and English)
Professor and Assoc. Dean
College of Liberal Arts
335-4581 • suross@wsu.edu

October 14 • 4:00–5:00 p.m. • CUB 406

***Organizing and Communicating
for Peace***

This panel presentation will focus on the groups' work that examines how non-governmental organizations affect and are affected by various public communications about conflict, war, and peace. Recent research examining news media discourses related to the Israeli-Lebanon war, the Israeli-Palestine conflict, and the U.S.-Mexico border has been presented at refereed conferences around the world and published in top-tier journals. To date, our research has relied primarily on deep reading of texts and in-depth interviews to gather and interpret data. Students wishing to use quantitative and experimental methods would be a welcome complement to our team.

Dr. Carol Ivory

Professor and Chair
Department of Fine Arts
President Pacific Arts Association
335-8686

October 21 • 4:00–5:00 p.m. • CUB 406

***From the Marquesas Islands to
the Metropolitan Museum of Art:
an exhibition comes to life!***

How does an exhibition of the art from islands in the middle of the Pacific Ocean end up in New York City at one of the most prestigious museums in the world? Join Dr. Carol Ivory, an art historian, to hear about the journey that has taken her around the world and through centuries in time to prepare her to work on the 2005 exhibit. Learn about the planning of an exhibition, the challenges and hurdles, and the fight to keep the Marquesan people themselves involved.

Dr. Brendan M. Walker

Assistant Professor
Department of Psychology
335-8526 • b_walker@wsu.edu

October 28
4:00–5:00 p.m.
CUB 406

Developing Pharmacotherapies for the Treatment of Alcoholism

The presentation will introduce the students to animal models of reinforcement and reward that are used to study the addictive aspects of alcohol and drugs of abuse. This will be followed by an introduction to the neurobiology of motivational systems and elaborate upon the role of opioid peptides in alcohol abuse and how such a system could be a viable pharmacotherapeutic target for the treatment of alcoholism.

Sponsored by

The Office of Multicultural Student Services,
the Office of Research, the College of Sciences,
and the College of Engineering & Architecture

335-7852 • www.mss.wsu.edu

Contact: Brandon Ware at boware@wsu.edu or Diem Phan at dtphan@wsu.edu

If you have questions or need more information, please contact:

The Office of Research: Dr. John F. Alderete, 335-6424, alderete@wsu.edu

The College of Sciences: Dr. Mary Sanchez Lanier, 335-5548, sanchez@wsu.edu; Dr. Kay Brothers, brothers@wsu.edu

The College of Engineering: Dr. Robert Olen, 335-0348, bgolsen@wsu.edu; Kasey Schertenleib, Kasey@wsu.edu

The Office of Multicultural Student Services: J. Manuel Acevedo, 335-1071, acevedo@wsu.edu

Dr. Donald Wall

Director Nuclear Radiation Center
335-8641 • www.wsu.edu/nrc/

November 4
4:00–5:00 p.m.
CUB 406

Nuclear Science at WSU

A discussion about the operation of the WSU nuclear reactor, the educational/training program that we conduct and how it can lead to becoming licensed by the Nuclear Regulatory Commission as a Nuclear Reactor Operator, and the research projects that we are working on.

Dr. Roberta Kelly

Assoc Prof and Assoc Dean Murrow
College of Communications
335-9153 • rkelly@wsu.edu and

Dr. Stacy Hust

Asst Prof Murrow College of
Communications
509-335-3696 • sjhust@wsu.edu

November 12
4:00–5:00 p.m.
CUB 406

The Importance of Communicating Science

This presentation will touch on why it's important for scientists to communicate with the media, why it's important for science students to be able to write well. The discussion will include undergraduate research projects on science topics that communication students have done, and current research which tests the effects of media advocacy.

Dr. Nehal Abu-Lail

Assistant Prof, School of Chemical
Engineering and Bioengineering
509-335-4961 • nehal@wsu.edu
mer.ce.wsu.edu/Abu-Lail.html

November 13
Noon–1:00 p.m.
CUB 406

A Nano-Scale Look at the Living World of Microbes

In recent years, atomic force microscopy (AFM) has been extensively used in studying live cells in general and bacterial cells in particular. Researchers' worldwide realized the importance and usefulness of AFM and employ it in many bacterial investigations. Over the years, AFM has been successfully used to image bacteria and its ultra-structure to measure specific and non specific interactions between bacteria and surfaces and to estimate bacterial surface properties such as elasticity and charge distribution. This presentation will review highlights about the rapid acceleration of the use of AFM as a tool in investigating live bacteria.

Dr. Nathalie Wall

Clinical Assist Prof Chemistry,
Nuclear Radiation Center
335-8917 • nawall@wsu.edu

December 4
Noon–1:00 p.m.
CUB 406

Nuclear Environmental Chemistry

The cold war nuclear weapon race and the past and current nuclear energy production are leaving us with much nuclear wastes to attend. Part of these radioactive wastes will be buried in deep underground repositories, which primary purpose is to contain the radioactive materials and prevent it from reaching the accessible environment. The decision on the location of a nuclear repository, its design, and the work involved to keep it open under federal regulations constitute a very challenging task, because all the parameters that can mobilize nuclear materials away from the repository to the human population and the environment must be studied and quantify. Nuclear and radiochemists are on the forefront of this work. This talk is an overview of the work involved to design a deep geological nuclear repository and the knowledge required to successfully complete this task.