

**Session III, Oral Presentations, 3:00 - 4:20 PM
Building 9**

Room 211. Ecology, Evolution and Behavior - III

<i>Time</i>	<i>Student Presenter(s)</i>	<i>Project Title</i>	<i>Faculty Mentor(s)</i>
3:00 PM	Jenessa A. Stemke	The role of LapA in <i>Solanum lycopersicum</i> insect defense	Linda Walling
3:20 PM	Sean C. Wilcox	Bite-force in Ceratophryne Frogs and its Implications for the Biology of the Cretaceous Devil Frog, <i>Beelzebufo ampinga</i>	A. Kristopher Lappin
3:40 PM	Amanda J. Lea	Heterospecific eavesdropping in a nonsocial species	Daniel Blumstein
4:00 PM	Brett A. Bergman	Effects of Leaf Nodes on the Mechanical Properties of the California Black Walnut	Frank Ewers Edward Bobich

Room 213. Developmental/Cell Biology

<i>Time</i>	<i>Student Presenter(s)</i>	<i>Project Title</i>	<i>Faculty Mentor(s)</i>
3:00 PM	Nolan M. Ung	Signaling in the Shoot Apical Meristem of <i>Arabidopsis</i>	Harley Smith
3:20 PM	Victor Slupski Jonathan Balakumar	Toxic Effects of Myra-Cyn Cleaning Solution on Mouse Reproductive Systems	Prue Talbot
3:40 PM	Benjamin R. Uy	Sox Family Genes in Lamprey Neural Crest Development	Tatjana Sauka-Spengler
4:00 PM	Erica V. Tate	Nicotine, Pyrazine, and 2-Ethylpyridine, Chemicals in Cigarette Smoke, Affect Attachment and Proliferation of Mouse Embryonic Stem Cells	Prue Talbot

**Session III, Oral Presentations, 3:00 - 4:20 PM
Building 9**

Room 219. Bioengineering

<i>Time</i>	<i>Student Presenter(s)</i>	<i>Project Title</i>	<i>Faculty Mentor(s)</i>
3:00 PM	Sara(Marzieh) Sameni Paola Cespedes	Melody Recognition in Auditory Neuropathy Patients	Fan-Gang Zeng
3:20 PM	Andrew H. Vu	Fluorescence Enhancement of Warfarin Induced by Interaction with β -Cyclodextrin	Valentine Vullev
3:40 PM	Allison Zemek	Model for Estimating the Threshold Mechanical Stability of Cartilage Grafts used in Rhinoplasty	Brian Wong
4:00 PM	Richard W. Taylor	Determining the Optimal Sampling Interval of the Exhaled Nitric Oxide Profile	Steven George

Room 239. Microbiology and Molecular Genetics - III

<i>Time</i>	<i>Student Presenter(s)</i>	<i>Project Title</i>	<i>Faculty Mentor(s)</i>
3:00 PM	Laura Lee	Chd1 and the deposition of H3.3 in the replication-independent pathway in <i>Drosophila melanogaster</i>	Jennifer Armstrong
3:20 PM	Nancy M. Morkos	Isolation and Characterization of <i>Listeria monocytogenes</i> Inhibitory Bacteriophages Found in Natural Farm Environments	Shelton Murinda
3:40 PM	Marissa A. Quitt	A Proposed Improvement to the Needleman-Wunsch Algorithm	Eliot Bush

**Session III, Oral Presentations, 3:00 - 4:20 PM
Building 9**

Room 241. Molecular Biology, Biochemistry - II

<i>Time</i>	<i>Student Presenter(s)</i>	<i>Project Title</i>	<i>Faculty Mentor(s)</i>
3:00 PM	Alison D. Scott	Surface Plasmon Resonance Analysis of Copper(I) Binding to Metallothionein via Cu(I)-Glutathione complex	Feimeng Zhou
3:20 PM	Ramina A. Amino	Estrogen Receptor and Progesterone Receptor in Vestibular Schwannoma	Joni Doherty
3:40 PM	Dennis O. Ankrah	Importance of Conserved Residues in the Translocation of an Autotransporter Protein	Christos Stathopoulos
4:00 PM	Dan Song	Quantitative Measurement of Lac Repressor Concentration at the Single-Cell Level	Hernan Garcia Rob Phillips

Room 243. Physical and Analytical Chemistry

<i>Time</i>	<i>Student Presenter(s)</i>	<i>Project Title</i>	<i>Faculty Mentor(s)</i>
3:00 PM	Kevin Murphy	Determination of Mercury and Lead in the Deciduous Teeth of Children with Autism Spectrum Disorder	Curtis Keedy
3:20 PM	Larry T. Lam	Employing Phase-Modulated Imaging Ellipsometry in Immunoarray Detection	Feimeng Zhou Yong-Jun Li
3:40 PM	Allegra L. Liberman-Martin	Quantitative Characterization of Particulate Matter in Claremont, CA by PILS-IC (Particle-into-Liquid Sampler - Ion Chromatography)	Kathleen Purvis-Roberts
4:00 PM	Keegan Nelson	Phase Transitions in Langmuir Films of n-Perfluorocarboxylic Acids	Eileen Spain

**Session III, Oral Presentations, 3:00 - 4:20 PM
Building 9**

Room 245. Organic Chemistry - IV

<i>Time</i>	<i>Student Presenter(s)</i>	<i>Project Title</i>	<i>Faculty Mentor(s)</i>
3:00 PM	Elisa G. Gutierrez	Synthesis of 3,3'-di-tert butyl-5,5'-dichloro-6,6'-dimethylbiphenyl-2,2'-diol, cyclic phosphoric acid for Chiral Brønsted Acid Catalysis	Anna Wenzel
3:20 PM	Anna M. Wagner	A Convergent Approach to the Preparation of 1,2-Dihydroquinolines Via a Tandem Michael-Aldol Reaction	Anna Wenzel
3:40 PM	Noralhuda Ismail	Energetics of Electron Back Transfer in DNA Repair by Photolyase: Calculation of Reorganization Energy of Flavin Thermal Motion upon Oxidation and Reduction	Xuehe Zheng
4:00 PM	Linda Chinn Choon L. Tan	Anthocyanin stability of California-grown purple carrots in various pH and ionic strength solutions	Ann Marie Craig

Room 247. Astronomy - II

<i>Time</i>	<i>Student Presenter(s)</i>	<i>Project Title</i>	<i>Faculty Mentor(s)</i>
3:00 PM	Eugene Shvarts Derek Wells Rone-Kwei Lim	Expansion law and luminosity distance in multi-fluid cosmological models	Eun-Young Elaine Kang Tony Longson Milan Mijic
3:20 PM	Sky C. King	An Investigation into the Formation of Keplerian Disks in Bipolar Preplanetary Nebula	Mark Morris Alexander Rudolph
3:40 PM	Jennifer Shitanishi	Methane Band and Continuum Band Imaging of Titan's Atmosphere Using Cassini ISS Narrow Angle Camera Pictures from the CURE/Cassini Imaging Project	Stephen Gillam
4:00 PM	Evan S. Gawlik	Titan Mission Trajectory Design	Jerrold Marsden

**Session III, Oral Presentations, 3:00 - 4:20 PM
Building 9**

Room 251. Mathematics - II

<i>Time</i>	<i>Student Presenter(s)</i>	<i>Project Title</i>	<i>Faculty Mentor(s)</i>
3:00 PM	Vanessa Alday	The Effects of Wind and Altitude in the 400-m Sprint	Michael Frantz
3:20 PM	Franque M. Bains	Fixed Points of Number Derivatives on the Integers Modulo a Power of n	Mike Krebs
3:40 PM	Martijn F. van Schaardenburg Bob Chen Hendrik N. Orem Richard S. Bowen	Group Theoretic Algorithms for Fast Matrix Multiplication	Michael Orrison Nicholas Pippenger
4:00 PM	Peter A. Hoff	Structure of Error in Iterative Methods	Angel Pineda

Room 255. Environmental Engineering

<i>Time</i>	<i>Student Presenter(s)</i>	<i>Project Title</i>	<i>Faculty Mentor(s)</i>
3:00 PM	Luisa A. Lam	The Dirt on the Los Angeles Coastline	Stephen Koletty
3:20 PM	Christophe Cappelli	Pretreatment of Biomass and Biosolid feedstock to generate pumpable slurry	Chang Park Joe Norbeck
3:40 PM	Claudine Custodio	Availability Assessment of Biomass in Southern California as a Feedstock for Steam Hydro-Gasification to Synthetic Liquid Fuels	Chan Park
4:00 PM	Troy D. Ezeh	Fate and Transport of Colloidal Particles in Saturated Porous Media	Sharon Walker Nick Kim

**Session III, Oral Presentations, 3:00 - 4:20 PM
Building 9**

Room 269. Aerospace Engineering

<i>Time</i>	<i>Student Presenter(s)</i>	<i>Project Title</i>	<i>Faculty Mentor(s)</i>
3:00 PM	Robert C. Lundy Steven Xu Viranga Perera Richard Aguilar	Black Dragon Abstract	Donald Edberg Subodh Bhandari
3:20 PM	David A. Stout	Hawksat-1: Introducing CubeSat Satellite System Variables	Hsun-Hu Chen Galen Pickett
3:40 PM	Brandon Reynante	Morphing Surfaces for the Control of Boundary Layer Transition	Beverley McKeon Jeff LeHew Kaushik Bhattacharya Michael Ortiz

Room 271. Engineering – Chemistry/Biochemistry II

<i>Time</i>	<i>Student Presenter(s)</i>	<i>Project Title</i>	<i>Faculty Mentor(s)</i>
3:00 PM	Xueliang Liu	Conductive Polymer/Silicon Junctions for Wire Array Solar Cells	Nathan Lewis James Maiolo
3:20 PM	Jordan A. Parker	Corrosion Study of Ductile Iron Pipe	Thuan Nguyen
3:40 PM	Thomas L. Estus Gregory R. Johnson	Development and Assembly of a Robot for Preparing a Fluid Sample Aliquot	Michael Shaw Craig Reinhart
4:00 PM	Antonio S. Contreras	Synthesis and Characterization of Naphthalic and Perylene Imides for Use in Photovoltaic Devices	Valentine Vullev

**Session III, Oral Presentations, 3:00 - 4:20 PM
Building 9**

Room 273. Business and Finance II

<i>Time</i>	<i>Student Presenter(s)</i>	<i>Project Title</i>	<i>Faculty Mentor(s)</i>
3:00 PM	Pascal Inderabudhi Elisa Lau Juan Kim Amanda Maes Sean Oppenheimer	BP p.l.c: External Environment, Industry Analysis, and Company Assessment	Venkatachalam Seshan
3:20 PM	Raul Escobar-Rodas	Pricing Derivative Securities Based on Three Independent Assets in Discrete Time	Robert Aguirre
3:40 PM	Erica Tang Abhishek Parmar	Attractive Innovative Small Cap Companies with Strategic Potential, New Products and Biotech Process Methodologies for Acquisition by Major Pharmaceutical Manufacturers	V. Seshan

Room 281. Economy and Development

3:00 PM	Jan-Eave J. Wan	Modern Piracy & Poverty in the Indonesian Archipelago	Stephen Koletty
3:20 PM	Rebecca E. Jacques	Microfinance and Microcredit: Breaking the Cycle of Poverty in Developing Communities	Donald Booth
3:40 PM	Tommy S. Yotes	Indonesia: An Evaluation of Its Institutional and Legal Capacities to Implement the WTO Trade-Related Intellectual Property Rights Agreements (TRIPS)	Gaye Christoffersen
4:00 PM	Jose L. Collazo	The Importance of the Latino Migrant Workforce in Ohio's Economy	David Hansen

**Session III, Oral Presentations, 3:00 - 4:20 PM
Building 9**

Room 303. Criminology and Psychology

<i>Time</i>	<i>Student Presenter(s)</i>	<i>Project Title</i>	<i>Faculty Mentor(s)</i>
3:00 PM	Jessica Cardenas	Property Crimes vs. Violent Crimes: Is One More Pervasive Than the Other?	Robert Parker
3:20 PM	Krystal S. Campos	The Ultimate Form of Control: Understanding Sexual Homicide through Socialization and Neuropsychology	Tracy Tolbert Galen Pickett
3:40 PM	Wylie H. Wan	Neighborhood Contexts and Economic Factors that Influence Romantic Relationships	Thomas Bradbury
4:00 PM	Hideaki Yanashima	The Misinformation Effect: Traumas and Susceptibility	James Williams

Room 305. Psychology

<i>Time</i>	<i>Student Presenter(s)</i>	<i>Project Title</i>	<i>Faculty Mentor(s)</i>
3:00 PM	Chi-Kong Cheung	The Cue-dependent Nature of Recall	Nate Kornell Robert Bjork
3:20 PM	Lyzette Blanco	Ethnic Differentials concerning Non-Suicidal Self-Injury among College Students	Tuppett Yates
3:40 PM	Janelle K. Gross	Perceived Parenting Styles and Its Impact On Undergraduates' Substance Use	Susan Siaw

Session III, Oral Presentations, 3:00 - 4:20 PM
Building 9

Room 307. Environmental Issues

<i>Time</i>	<i>Student Presenter(s)</i>	<i>Project Title</i>	<i>Faculty Mentor(s)</i>
3:00 PM	Chelsea E. Buckland	Trends in Green Building and Sustainable Living in California	Steven Koletty
3:20 PM	Jana M. Brown	The World of Adventure Tourism	Neha Singh
3:40 PM	Gregory E. Elwood	Constructing a Wildfire Planning Database for the National Park Service, Santa Monica Mountains National Recreation Area	Stephen Koletty

Room 313. Economics

<i>Time</i>	<i>Student Presenter(s)</i>	<i>Project Title</i>	<i>Faculty Mentor(s)</i>
3:00 PM	Rick Van Voorden	A Question of Trust	Jernej Copic
3:20 PM	Sherwin Doroudi	Efficiency of Non-cooperative Resource Allocation with Applications to the Sensor Coverage Problem	Adam Wierman
3:40 PM	Chanaka J. Takazawa	Japan: Its Checkbook Diplomacy Dilemma and 'Normal' Alliance with the United States	Gaye Christoffersen
4:00 PM	Sarah L. Debel	Pork and Politics: Party Governments and District Spending In Historical State Legislatures	Thad Kousser

**Session III, Oral Presentations, 3:00 - 4:20 PM
Building 9**

Room 325. Comparative Literature

<i>Time</i>	<i>Student Presenter(s)</i>	<i>Project Title</i>	<i>Faculty Mentor(s)</i>
3:00 PM	Erin L. Conley	Dante's Purgatorio: A Community of Love	Michael Near
3:20 PM	Eric J. Vallee	Dialectic of Conquest: The Oral and Literate Aesthetics and their Role in the Literature Concerning the Conquest of America	Rodrigo Lazo
3:40 PM	Kamaila A. Sanders	Dostoevsky's Underground	Charles Sherry
4:00 PM	Katherine R. Bierach	"There's Something in the Blood": The Plague and the Celestial Feminine in 28 Days Later	Ariane Balizet

Room 333. Depictions of Women's Roles

<i>Time</i>	<i>Student Presenter(s)</i>	<i>Project Title</i>	<i>Faculty Mentor(s)</i>
3:00 PM	Jessica J. Kolstad	Selling More Than Soup	Michaela Reaves
3:20 PM	Jacquelyn R. Zankoski	Women's Inheritance Practices in Colonial America	Michaela Reaves
3:40 PM	Aerion T. Brown	The Jezebel is Dead: The Liberation Theology of Jarena Lee	Munashe Furusa
4:00 PM	Josefina Wilhelm	The Journey to Finding Her Voice: A Transformation from Mexican-American to Chicana	S. Terri Gomez

**Session III, Oral Presentations, 3:00 - 4:20 PM
Building 9**

Room 335. Gender and Race in Literature

<i>Time</i>	<i>Student Presenter(s)</i>	<i>Project Title</i>	<i>Faculty Mentor(s)</i>
3:00 PM	Madison L. Murphy	"Miss Jane Austen Fan," 269 Videos and Counting: An Examination of Jane Austen Fan Videos on You Tube	Katherine Mills
3:20 PM	Erica P. Lindquist	Feminine Community in the Works of Jane Austen	Wendy Furman-Adams
3:40 PM	Emily R. Isenberg	The Identity of Racially Mixed Characters in Toni Morrison's The Bluest Eye	John Swift
4:00 PM	Ashley E. Pond	An Examination of Toni Morrison's Song of Solomon: Womanist in Which Light, In Which Right (Or Left)?	John Swift

Room 423. Cultural Studies and Art

<i>Time</i>	<i>Student Presenter(s)</i>	<i>Project Title</i>	<i>Faculty Mentor(s)</i>
3:00 PM	Adan E. Alonso	From Jazz Pianist to Latin Jazz Performer: A Comparative Examination of Hilton Ruiz's Musical Repertoire	Irene Vasquez
3:20 PM	Debra L. Burrough	The Thread Between Two Continents: Preservation of cultural identity manifested through the recycling of Fabrics of historical value	Carol Shaw Sutton Galen Pickett
3:40 PM	Mara K. Hosoda	Kapa haka: Māori performing arts as alternative education	Donna Maeda