Schedule of Events

Occidental College, Summer Undergraduate Research Conference,
July 30, 2014

8:00 a.m.       Poster set-up
                Academic Commons

8:30 a.m.       Registration, name badge pick-up
                Arthur G. Coons Hall Stairs

9:00 a.m. - 10:00 a.m. Oral Presentations, Session One
                Fowler Hall,
                Rooms 111, 112, 202, 207, 209

10:15 a.m. - 11:15 a.m. Oral Presentations, Session Two
                Fowler Hall
                Rooms 112, 202, 207, 209

11:30 a.m. - 12:15 p.m. Poster Presentation, Session One
                Academic Commons

12:30 p.m.      Lunch
                Gresham Dining Hall

1:30 p.m. - 2:15 p.m. Poster Presentations, Session Two
                Academic Commons

2:30 p.m. - 3:30 p.m. Oral Presentations, Session Three
                Fowler Hall
                Rooms 112, 202, 207, 209
ORAL PRESENTATIONS: Session 1
9:00 am – 10:00 am

Session 1A, Fowler Hall, Room 111
Chair: Nancy Dess

9:00  The Politics of Gender in the German Democratic Republic
Rachel Wilson, Mentor: Marla Stone, History

9:15  Back to the Future: Restoring Habana Vieja for the 21st Century
Samuel Wylie, Mentor: Eric Frank, Art History & Visual Arts

9:30  The Paradox of German Self-Hatred
Andrew Zarins, Mentor: Roger Boesche, Politics

Session 1B, Fowler Hall, Room 112
Chair: Kristi Upson-Saia

9:00  The Role of Meditation and Narrative in Contemporary Buddhist Social Justice
Shira Barlas, Mentor: Dale Wright, Religious Studies

9:15  Ancient Sexuality: The Phallus and Priapus in Roman Antiquity
Olivia Davis, Mentor: Kristi Upson-Saia, Religious Studies

9:30  Sustainability and Ethical Development: Looking at the Clean Development Mechanism through the Capabilities Approach
Cristina Checa, Mentor: Clair Morrissey, Philosophy

9:45  Religion Renewed: The Charismatic Movement of the 1960’s
Lichun (Lisa) Chang, Mentor: D. Keith Naylor, Religious Studies
**Session 1C, Fowler Hall, Room 202**  
Chair: Shana Goffredi

9:00  *Mechanisms of Revival and Renewal: In Vitro Investigations of Fusogenic Events with Neurogenic Stem Cells and Neuronal Cells*  
Frances Kim, Mentor: Kerry Thompson, Biology

9:15  *Utilizing Neural Stem Cells as a Novel Targeted Therapy for Treating Ovarian Cancer*  
Steve Luu, Mentor: Dr. Karen Aboody, MD, City of Hope

9:30  *Identifying the Molecular Target of the Neuroexcitatory Peptide, c4h*  
Eric Kazangian, Mentor: Joseph Schulz, Biology

9:45  *Bringing the Taxonomy of the Moore Lab bird collection into the 21st Century*  
Emily Ridley, Mentor: John McCormack, Biology

**Session 1D, Fowler Hall, Room 207**  
Chair: Damian Stocking

9:00  *Quantum Puzzles, Many Worlds, and Agential Realism*  
Tyler Ollanik, Mentor: Carolyn Brighouse, Philosophy

9:15  *And Darkness Was Nothing: Explorations of Presence and Absence in Poetry and Short Fiction*  
Marin Sieck, Mentor: Martha Ronk (English Literature) and Danzy Senna

9:30  *Re-organ-izing the World*  
Merrie Emmons, Mentor: Damian Stocking, Classical Studies

9:45  *Survival (Dawkins through Derrida)*  
Daniel Schecter, Mentor: Damian Stocking, Classical Studies
Session 1E, Fowler Hall, Room 209
Chair: Ron Buckmire

9:00  Cessation and Reorientation of Large-Scale Circulation in Rayleigh-Bénard Convection
     Mike Ma, Mentor: Janet Scheel, Physics

9:15  Using Mathematics to Investigate Occidental’s Solar Array
     James Slaney, Mentor: Ron Buckmire, Mathematics

9:30  Economical Extremal Hypergraphs for the Erdos-Selfridge Theorem
     Emily Heath, Mentor: Eric Sundberg, Mathematics

9:45  Ionization Measurements of Low Energy Recoils in the DRIFT Dark Matter Detector
     Alexander Lumnah, Mentor: Dan Snowden-Ifft, Physics

ORAL PRESENTATIONS: Session 2
10:15 am – 11:15 am

Session 2A, Fowler Hall, Room 111
Chair: Bhavna Shamasunder

10:15  The New Wyvernwood
     Paige Dow, Mentor: Peter Dreier, Urban and Environmental Policy

10:30  Translating DuBois and Trayvon Martin to the Palestinian Diaspora
     Janan Burni, Mentor: James Ford, English and Comparative Literary Studies

10:45  Connections Between Improved Water Access and Maternal/Neonatal Health: Rural Cambodia
     Beatrice Spirakisi, Mentor: Bhavna Shamasunder, Urban and Environmental Policy

11:00  Right to Food
     Chloe Azria, Mentor: Anthony Chase, Diplomacy and World Affairs
10:15  *The Prospect of Adding Green Space to Schools in LAUSD*  
**Daniel Tobin**, Mentor: Bevin Ashenmiller, Economics

10:30  *The Prospect of Adding Green Space to Schools in LAUSD*  
**Elwyn Pratt**, Mentor: Bevin Ashenmiller, Economics

10:45  *Santería: Religious Hybridity on the Moral Limitations of the Cuban Revolution*  
**Carlina Perna**, Mentor: D. Keith Naylor, Religious Studies

11:00  *Transgender Embodiment: Possibility in the Vulnerable, Possibility in the Liminal*  

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**Sarah Safuto**, Mentor: Alexander Day, History

10:30  *Tuberculosis in Early Twentieth Century Los Angeles*  
**Laurel Howard**, Mentor: Sharla Fett, History

10:45  *Chilean Arpilleras: Tapestries as a Gendered Form of Political Empowerment*  
**Christina Crittenden**, Mentor: Alexandra Puerto, History
Session 2D, Fowler Hall, Room 207  
Chair: Adelaida Lopez

10:15  **20th Century Interpretation of the Ancient Maya through a Classical Greek Lens**  
*Marika Tripodes*, Mentor: Lisa Sousa, History

10:30  **Death Becomes Life: Race, Queerness, and the Cultural Politics in the work of Cyclona**  
*Bobby Rodriguez Donoso*, Mentor: Amy Lyford, Art History and the Visual Arts

10:45  **Love, Violence, and Counter-Hegemonic Discourse: Comparing Nicaraguan Women's Poetry from the Revolution and Today**  
*Brittany Wightman*, Mentor: Adelaida Lopez, Spanish

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Session 2E, Fowler Hall, Room 209  
Chair: Andrew Shtulman

10:15  **Teaching Children about Evolution through Analogical Encoding**  
*Cara Neal and Gabrielle Lindquist*, Mentor: Andrew Shtulman, Psychology

10:35  **The Role of Language and Perceptual Features on Scientific Intuitions**  
*Columbia Shafer and Liza Comart*, Mentor: Andrew Shtulman, Psychology
ORAL PRESENTATIONS: Session 3
2:30 pm – 3:30 pm

Session 3A, Fowler Hall, Room 111
Chair: David Kasunic

2:30  
*John Cage and Improvisation post-1970*

Alyssa Cottle, Mentor: David Kasunic, Music

2:45  
*The Exhibition and Presentation of Ancient Latin American Art at the Los Angeles County Museum of Art*

Georgia Tripodes, Mentor: Lisa Sousa, History

3:00  
*Analyzing the English Language Debate on Proposals of Currency Reform for China From 1900-1940*

Alexander Najarian, Mentor: Alexander Day, History

3:15  
*Deconstructing and Reimagining the Image of the Black Female Body: A Study of Self-Representation of Black Women in Social Media as a Form of Resistance and Empowerment*

Gabriella Ncube, Mentor: Allison de Fren, Art History and the Visual Arts
Session 3B, Fowler Hall, Room 112
Chair: Hanna Spinosa

2:30  Public Transportation in Los Angeles: Looking at Metro’s Proposed Fare Restructure, Choosing the Best Choice for Affordability and Accessibility
Samantha Delgadillo, Mentor: Mark Vallianatos, Urban and Environmental Policy

2:45  Odor Learning: effects of emotion on odor memory
Jenny Quilty, Mentor: Carmel Levitan, Cognitive Science

3:00  Uncovering the Experiences of Formerly Incarcerated Individuals in the United States
Megan Olayinka, Mentor: Richard Mora, Sociology

3:15  The Smell of Jazz: Cross-modal correspondences between music, odor, and emotion
Sara Charney, Mentor: Carmel Levitan, Cognitive Science

Session 3C, Fowler Hall, Room 202
Chair: Movindri Reddy

2:30  Highland Park Ebell Club
Elizabeth Noon, Mentor: Jeremiah Axelrod, History

2:45  Art and Community: A Case Study of the Santa Monica Museum of Art
Mariel Rowland, Mentor: Martha Matsuoka, Urban and Environmental Policy

3:00  Race and the Transnational Anti-Slavery Movement
Eden Belachew, Mentor: Movindri Reddy, Diplomacy and World Affairs

3:15  The Musical Identity: How Public Health Organizations Utilize Music to Educate Black Young Adults about HIV in Durban, South Africa
Arielle N'Diaye, Mentor: Movindri Reddy, Diplomacy and World Affairs
2:30  Deconstructing with Creative Experimentations: Genetically Engineering a non-Anthropocentric Narrative for the Posthuman Reader
     Tom Mirovski, Mentor: Cheryl Okumura, Biology

2:45  Streptococcus pyogenes persists in the lysosomal environment
     Joshua Snipper, Mentor: Cheryl Okumura, Biology

3:00  Comparison of Enzymatic Activity and Immune Recognition of Mutant and Wildtype Phospholipase D: Approaches to Developing a C. Pseudotuberculosis Vaccine
     Christopher Hino, Mentor: Roberta Pollock, Biology

3:15  Blue Copper Binding Proteins
     Carlos Alvarez Razo, Mentor: Aram Nersissian, Chemistry

Session 3E, Fowler Hall, Room 209
Chair: Andrew Udit

2:30  Octadecyl-Functionalized Chitosan-Coated Magnetite Nanoparticles for Water Remediation
     Anton Molina, Mentor: Eileen Spain, Chemistry

2:45  Fluorescence in situ hybridization (FiSH) of spatially-resolved Bdellovibrio bacteriovorus-Escherichia coli biofilms
     Hyeong-Jin Edward Kim, Mentor: Eileen Spain, Chemistry

3:00  Fabrication & Analysis of Gold Nanostructure Doped Sensitized Solar Cells
     Benjamin Clark, Mentor: Eileen Spain, Chemistry
# POSTER PRESENTATIONS

**Session One, Odd-numbered Posters, 11:30 am - 12:15 pm**  
**Session Two, Even-numbered Posters, 1:30 pm - 2:15 pm**

Posters will be on display on the main floor of the Academic Commons

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<td>Mechanism and Kinetics of Substrate Binding to DNA-labeled Surfaces</td>
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<td>Collrane Frivold, Seyedeh Amythis Soltani Arabshahi and Anasheh Sookezian</td>
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<td>3</td>
<td>Annemarie Schnedler</td>
<td>Does Lumosity Training Improve Working Memory?</td>
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<td>Alex Rand</td>
<td>Synthesis of Isofagomine and Other Iminosugars</td>
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<td>Abigail Bailey and Marcos Demetrio</td>
<td>How does the skin of the Giant Keyhole Limpet prevent infection?</td>
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<td>Chongmo Tang</td>
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<td>Alexander Graves</td>
<td>Palladium Catalyzed Friedel-Crafts Type Allylic Arylation</td>
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<td>Anthony Quach and Omar Quddusi</td>
<td>Photoelectrochemistry of Ru(bpy)2bdppz2+</td>
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<td>Jacqueline Rojas</td>
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<td>Darryenn G. Castellanos</td>
<td>Identification of Blue Copper Proteins in <em>Physcomitrella patens</em> and <em>Selaginella moellendorffii</em></td>
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<td>Jeffrey Johnson</td>
<td>Simulation of the Electron Dump Process in a Malmberg-Penning Trap</td>
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<td>Donovan Dennis</td>
<td>Impact analysis of the TOPS Foundations science education outreach program</td>
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<td>Gregory Chisholm</td>
<td>Vaccine Development and Testing for <em>Corynebacterium Pseudotuberculosis</em> Infection and Pigeon Fever using a Murine Model</td>
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<td>Katherine Yanagi</td>
<td>Effects of sedative-hypnotics on the developing brain</td>
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<td>Louis Jochems</td>
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<td>Marvin Browne</td>
<td>Nutrient uptake and its effect on tank chemistry in tank bromeliads</td>
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<td>Kevin Hong</td>
<td>Electrochemistry of Cytochrome P450 in surfactant films: “tunable” catalysts?</td>
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<td>Maya McLain</td>
<td>Analysis of Group A <em>Streptococcus</em> (GAS) suppress immune cell oxidate burst response</td>
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<td>Subcloning of GFP-klp-7 cosmid to visualize KLP-7 activity of an alpha-tubulin mutation in <em>C. elegans</em></td>
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<td>Pari Vanjara</td>
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<td>Sally Madiba</td>
<td>Expression, Isolation and Purification of Factor VIII Protein for use in Hemophilia A Treatment</td>
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