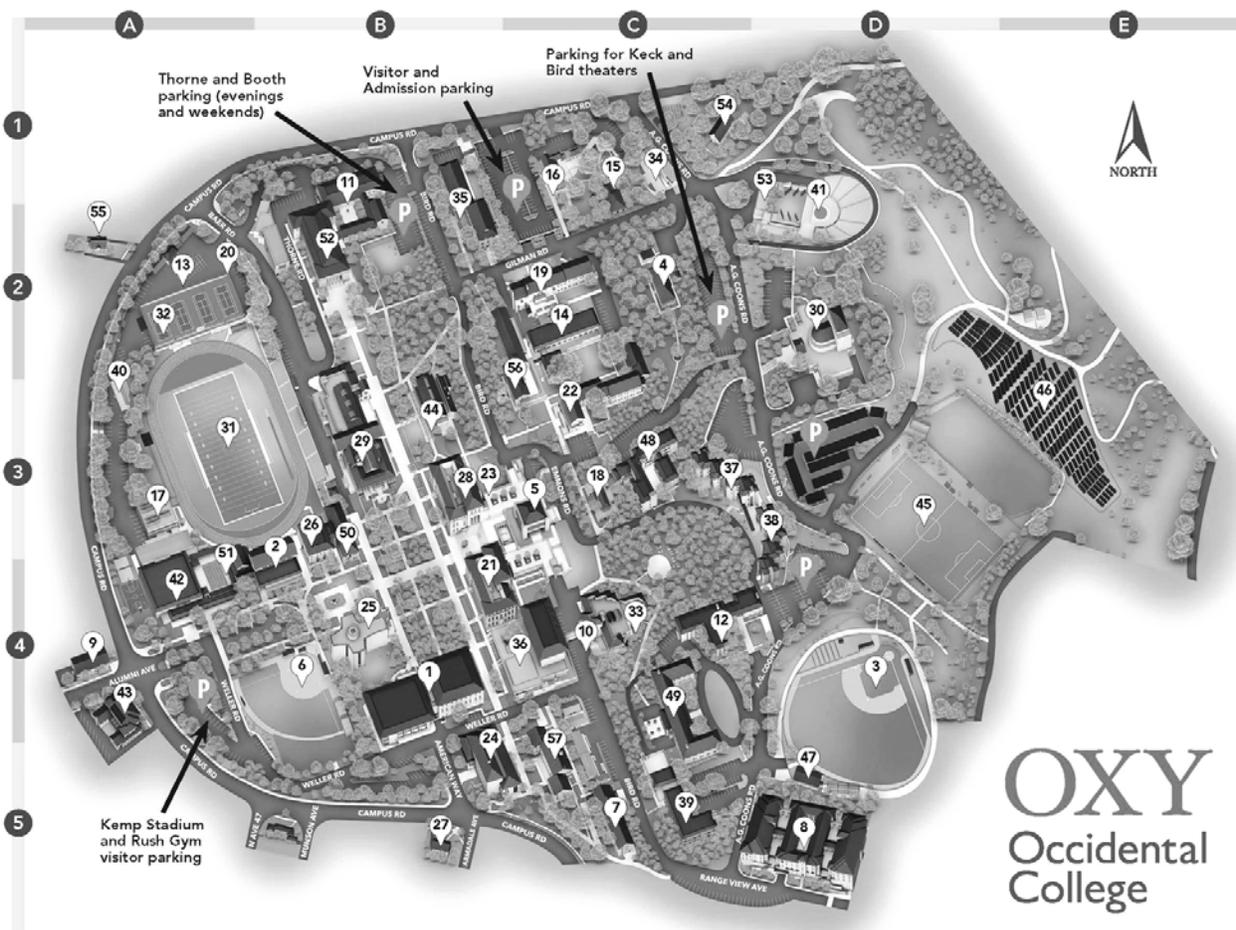


OXY Occidental College

2019 Summer Undergraduate Research Conference

Schedule of Events • July 31, 2019

| | |
|---------------------|--|
| All day, repeating | Screening of vintage scenes from Oxy, film provided by Special Collections. Main Floor, Academic Commons, circulation area. |
| 8:00 – 8:30 AM | Poster set-up (for morning session) Library/Academic Commons, 3rd floor, "new" building side |
| 8:15 AM | Registration and name badge pick-up Quad, tented table near Library/Academic Commons |
| 9:00 – 9:45 AM | Oral Presentations, Session One Fowler Hall, Rooms 112, 202, 209 |
| 9:50 – 10:50 AM | Oral Presentations, Session Two Fowler Hall, Rooms 112, 202, 209, 302 |
| 11:00 AM – 12:00 PM | Poster Presentations, Session One Library/Academic Commons, 3rd floor, "new" building side |
| 12:00 – 12:15 PM | Intermission: Poster Presentations: Session One posters removed and Session Two posters set-up. |
| 12:00 – 12:30 PM | Luncheon service and seating begins, Gresham Dining Hall (please enter through Branca Patio) |
| 12:30 – 1:15 PM | Remarks by Dean Wendy Sternberg, along with presentations and acknowledgements. Luncheon continues, Gresham Dining Hall. |
| 1:30 – 2:30 PM | Oral Presentations, Session Three Fowler Hall, Rooms 112, 202, 209, 302 |
| 2:40 – 3:40 PM | Oral Presentations, Session Four Fowler Hall, Rooms 112, 202, 209, 302 |
| 3:50 – 4:50 PM | Poster Presentations, Session Two Library/Academic Commons, 3rd floor, "new" building side |
| 5:00 – 6:00 PM | Closing reception honoring 20 th Anniversary, Lower Herrick Lawn (between the Academic Commons and Herrick Memorial Chapel/Interfaith Center). Brief remarks by Prof. Chris Craney, the founding director of the URC |



| | NUMBER | GRID | | NUMBER | GRID | | NUMBER | GRID |
|--|--------|------|---|--------|------|---|--------|------|
| Academic Commons/ Mary Norton Clapp Library | 1 | B4 | Haines Hall | 22 | C3 | Rensen Bird Hillside Theater | 41 | D1 |
| Alumni Gym Fitness Center | 2 | B4 | Hameetman Career Center | 23 | B3 | Rush Gymnasium | 42 | A4 |
| Anderson Field | 3 | D4 | Hameetman Science Center | 24 | B5 | Samuelson Alumni Center | 43 | A4 |
| Annenberg President's House | 4 | C2 | Herrick Memorial Chapel and Interfaith Center | 25 | B4 | Samuelson Campus Pavilion/ Tiger Cooler | 44 | B3 |
| AGC Administrative Center | 5 | C3 | Hinchliffe Hall | 26 | B3 | Soccer Fields | 45 | D3 |
| Bell Field | 6 | B4 | Intercultural Community Center | 27 | B4 | Solar Array | 46 | E3 |
| Bell-Young Hall | 7 | C5 | Johnson Hall/Choi Auditorium | 28 | B3 | Spencer Field House | 47 | D5 |
| Berkus Hall | 8 | D5 | Johnson Student Center and Freeman College Union | 29 | B3 | Stearns Hall | 48 | C3 |
| Berkus House | 9 | A4 | Keck Theater | 30 | D2 | Stewart-Cleland Hall | 49 | C4 |
| BioScience Building | 10 | C4 | Kemp Stadium/Patterson Field/ Henry Track | 31 | A3 | Swan Hall | 50 | B3 |
| Booth Music and Speech Center | 11 | B1 | McKinnon Family Tennis Center | 32 | A2 | Taylor Pool | 51 | A4 |
| Braun Hall | 12 | C4 | Moore Laboratory of Zoology | 33 | C4 | Thorne Hall | 52 | B2 |
| Campus Safety | 13 | A2 | Mullin Family Studio and Art Gallery | 34 | C1 | Treehouse Building | 53 | D1 |
| Chilcott Hall | 14 | C2 | Newcomb Hall | 35 | B2 | Urban and Environmental Policy Institute | 54 | C1 |
| Child Development Center | 15 | C1 | Norris Hall of Chemistry | 36 | C4 | Upward Bound | 55 | A2 |
| Collins House/Office of Admission | 16 | C1 | Norris Residence Hall (North) | 37 | C3 | Weingart Center for the Liberal Arts | 56 | B2 |
| Culley Athletic Facility | 17 | A3 | Norris Residence Hall (South) | 38 | D3 | Wylie Hall | 57 | C5 |
| Emmons Wellness Center | 18 | C3 | Pauley Hall | 39 | C5 | | | |
| Erdman Hall | 19 | C2 | Psychology Laboratory | 40 | A3 | | | |
| Facilities Management | 20 | A2 | | | | | | |
| Fowler Hall | 21 | B4 | | | | | | |

Parking

LOCATIONS:

Registration and name tag distribution will be located in the Academic Quad near the Academic Commons Main Entrance, #1 on the map.

Oral Presentations will be held in Fowler Hall, #21.

Poster Presentations will be held on the 3rd floor of the Academic Commons, #1 on the map.

Lunch will be served in the Gresham Dining Hall in the Johnson Student Center and Freeman College Union, #29 on the map. (Please enter through Branca Patio.)

The Reception will be held between the Academic Commons, #1, and Lower Herrick, #25.

Presentations in Alphabetical Order by Student Last Name

| Last Name | First Name | Session | Time | Poster or Room # |
|------------------|-------------------|------------------|---------------------|-------------------------|
| Abedin | Wafa | Oral Session 1 B | 9:00 AM | Fowler 202 |
| Aboobucker | Sherin | Poster Session 2 | 3:50 PM - 4:50 PM | 1 |
| Alcantara | Cheldon | Oral Session 4 D | 2:40 PM | Fowler 302 |
| Anella | Mark | Oral Session 4 A | 2:40 PM | Fowler 112 |
| Arnall | Caroline | Poster Session 2 | 3:50 PM - 4:50 PM | 2 |
| Beisel | Joshua | Oral Session 3 D | 1:30 PM | Fowler 302 |
| Bekele | Elleni | Poster Session 1 | 11:00 AM - 12:00 PM | 4 |
| Berberian | Lori | Poster Session 2 | 3:50 PM - 4:50 PM | 4 |
| Blankenau | Amelia | Poster Session 1 | 11:00 AM - 12:00 PM | 5 |
| Bohen | Spruce | Poster Session 2 | 3:50 PM - 4:50 PM | 23 |
| Brown | Sophia | Oral Session 3 A | 1:30 PM | Fowler 112 |
| Brown | Joshua | Poster Session 2 | 3:50 PM - 4:50 PM | 5 |
| Carter | Cassandra | Oral Session 2 D | 10:20 AM | Fowler 302 |
| Castro | Francisca | Poster Session 1 | 11:00 AM - 12:00 PM | 6 |
| Chen | Charlene | Oral Session 4 A | 2:55 PM | Fowler 112 |
| Chin | Lauren | Poster Session 2 | 3:50 PM - 4:50 PM | 6 |
| Cho | Serena | Poster Session 1 | 11:00 AM - 12:00 PM | 7 |
| Chun | Laura | Poster Session 2 | 3:50 PM - 4:50 PM | 3A |
| Conroy | Kevin | Oral Session 1 A | 9:00 AM | Fowler 112 |
| Crooke | Anne Marie | Poster Session 2 | 3:50 PM - 4:50 PM | 7 |
| Daniel | Elena | Oral Session 2 D | 10:05 AM | Fowler 302 |
| De La Torre | Henrik | Poster Session 1 | 11:00 AM - 12:00 PM | 8 |
| Dews | Katherine | Poster Session 2 | 3:50 PM - 4:50 PM | 8 |
| Dinauer | Kate | Poster Session 1 | 11:00 AM - 12:00 PM | 9 |
| Doss | Ronise | Oral Session 4 C | 3:25 PM | Fowler 209 |
| Eden | Griffin | Oral Session 2 A | 10:20 AM | Fowler 112 |
| Eijima | Riki | Poster Session 1 | 11:00 AM - 12:00 PM | 23 |
| Elia | Peter | Poster Session 2 | 3:50 PM - 4:50 PM | 9 |
| Engstrom | Dawson | Oral Session 4 C | 3:10 PM | Fowler 209 |
| Essayan | Daniel | Poster Session 1 | 11:00 AM - 12:00 PM | 11 |
| Evans | Chelsea | Poster Session 2 | 3:50 PM - 4:50 PM | 23 |
| Fernandes | Jack | Oral Session 2 B | 9:50 AM | Fowler 202 |
| Field | Naomi | Oral Session 4 C | 2:40 PM | Fowler 209 |
| Flores | JP | Poster Session 2 | 3:50 PM - 4:50 PM | 11 |
| Flores Barnett | Diana | Poster Session 1 | 11:00 AM - 12:00 PM | 12 |
| Forsline | Mia | Poster Session 1 | 11:00 AM - 12:00 PM | 10 |
| Galbreath | Brendan | Oral Session 3 A | 1:45 PM | Fowler 112 |
| Gregory | Gabriel | Oral Session 4 B | 2:40 PM | Fowler 202 |
| Grossmann | Kate | Oral Session 3 B | 1:30 PM | Fowler 202 |
| Harrison | Cassia | Poster Session 2 | 3:50 PM - 4:50 PM | 10 |
| Healy | Nora | Oral Session 2 B | 10:05 AM | Fowler 202 |
| Hoefs | Hannah | Poster Session 2 | 3:50 PM - 4:50 PM | 12 |
| Hsiao | Wesley | Poster Session 1 | 11:00 AM - 12:00 PM | 13 |
| Hunter | Sierra | Poster Session 2 | 3:50 PM - 4:50 PM | 3B |
| Huth | Dan | Oral Session 3 B | 1:45 PM | Fowler 202 |
| Ingraham | Reese | Oral Session 1 B | 9:15 AM | Fowler 202 |
| Jack | Nkese | Oral Session 2 D | 9:50 AM | Fowler 302 |
| Jackson | Brenda | Poster Session 2 | 3:50 PM - 4:50 PM | 20 |
| Jan | Ian | Oral Session 3 D | 1:45 PM | Fowler 302 |
| Kauffman | Molly | Oral Session 3 A | 2:00 PM | Fowler 112 |

Presentations in Alphabetical Order by Student Last Name

| Last Name | First Name | Session | Time | Poster or Room # |
|-----------------|------------|------------------|---------------------|------------------|
| Kawada | Marc | Oral Session 2 A | 9:50 AM | Fowler 112 |
| Kim | Farrah | Oral Session 2 C | 9:50 AM | Fowler 209 |
| Kolpa | Lucinda | Poster Session 2 | 3:50 PM - 4:50 PM | 13 |
| Kwan | Michael | Oral Session 4 B | 2:55 PM | Fowler 202 |
| Lam | Ashley | Poster Session 1 | 11:00 AM - 12:00 PM | 14 |
| Lee | Amy | Oral Session 1 A | 9:15 AM | Fowler 112 |
| Lee | Yuri | Oral Session 2 A | 10:05 AM | Fowler 112 |
| Lee | Junepyo | Oral Session 2 A | 10:35 AM | Fowler 112 |
| Lee | Jimin | Oral Session 4 D | 2:55 PM | Fowler 302 |
| Lee | Hannah | Poster Session 2 | 3:50 PM - 4:50 PM | 14 |
| Leonard | Jack | Poster Session 1 | 11:00 AM - 12:00 PM | 15 |
| Lewis-Smith | Bryce | Oral Session 3 D | 2:00 PM | Fowler 302 |
| Li | Allen | Poster Session 2 | 3:50 PM - 4:50 PM | 15 |
| Liang | Crystal | Poster Session 1 | 11:00 AM - 12:00 PM | 16 |
| Lim | Kayla | Oral Session 4 A | 3:10 PM | Fowler 112 |
| López | Estephany | Oral Session 4 A | 3:25 PM | Fowler 112 |
| Mackey | Kialani | Poster Session 2 | 3:50 PM - 4:50 PM | 16 |
| Major | Matt | Oral Session 3 C | 1:30 PM | Fowler 209 |
| Makridakis | Ariadne | Oral Session 3 C | 1:45 PM | Fowler 209 |
| Markson | Brandon | Poster Session 2 | 3:50 PM - 4:50 PM | 17 |
| Martinez | Natalie | Poster Session 1 | 11:00 AM - 12:00 PM | 17 |
| Mateo | Andrea | Poster Session 2 | 3:50 PM - 4:50 PM | 20 |
| McKinley | Davin | Oral Session 3 C | 2:00 PM | Fowler 209 |
| Naftzger | Ebram | Oral Session 3 C | 2:15 PM | Fowler 209 |
| Norsten | Isabel | Oral Session 1 C | 9:00 AM | Fowler 209 |
| Nukaya-Petralia | Pablo | Oral Session 1 C | 9:15 AM | Fowler 209 |
| Olmos | Olivia | Poster Session 1 | 11:00 AM - 12:00 PM | 18 |
| Orlin | Sam | Poster Session 1 | 11:00 AM - 12:00 PM | 2 |
| Orozco | Cheyenne | Poster Session 2 | 3:50 PM - 4:50 PM | 18 |
| Pabst | Mark | Oral Session 1 C | 9:30 AM | Fowler 209 |
| Padula | Celeste | Oral Session 2 D | 10:35 AM | Fowler 302 |
| Pagano | Benjamin | Poster Session 1 | 11:00 AM - 12:00 PM | 19 |
| Park | Andrew | Poster Session 2 | 3:50 PM - 4:50 PM | 19 |
| Pedrick | Fiona | Poster Session 1 | 11:00 AM - 12:00 PM | 1 |
| Perry | Roe | Oral Session 2 C | 10:05 AM | Fowler 209 |
| Ramos | Stella | Oral Session 2 C | 10:20 AM | Fowler 209 |
| Raub | Spencer | Oral Session 1 A | 9:30 AM | Fowler 112 |
| Ritmeester-Loy | Sam | Poster Session 1 | 11:00 AM - 12:00 PM | 22 |
| Robertson | Thomas | Oral Session 2 B | 10:20 AM | Fowler 202 |
| Robertson | Barbara | Poster Session 1 | 11:00 AM - 12:00 PM | 3 |
| Rodarte | Ashley | Poster Session 1 | 11:00 AM - 12:00 PM | 3 |
| Roehrs | Hope | Oral Session 2 C | 10:35 AM | Fowler 209 |
| Ruvalcaba | Aracely | Oral Session 2 B | 10:35 AM | Fowler 202 |
| Salazar | Sebastian | Oral Session 4 B | 3:10 PM | Fowler 202 |
| Saludares | Connor | Poster Session 2 | 3:50 PM - 4:50 PM | 22 |
| Sappey | Ben | Poster Session 1 | 11:00 AM - 12:00 PM | 21 |
| Schaefer | Sophie | Oral Session 4 B | 3:25 PM | Fowler 202 |
| Seabrook | Laurence | Poster Session 2 | 3:50 PM - 4:50 PM | 21 |
| Serrano | Leslie | Poster Session 1 | 11:00 AM - 12:00 PM | 23 |
| Shrum | Anne | Oral Session 4 D | 3:25 PM | Fowler 302 |
| Smart-Mccabe | Maggie | Oral Session 4 C | 2:55 PM | Fowler 209 |

Presentations in Alphabetical Order by Student Last Name

| Last Name | First Name | Session | Time | Poster or Room # |
|--------------|------------|------------------|---------------------|------------------|
| Smith | Ben | Poster Session 1 | 11:00 AM - 12:00 PM | 18 |
| Steinke | Kayla | Poster Session 1 | 11:00 AM - 12:00 PM | 20 |
| Stine | Andrea | Oral Session 3 B | 2:00 PM | Fowler 202 |
| Thurnham | Jade | Oral Session 3 D | 2:15 PM | Fowler 302 |
| Uyemara | Russell | Poster Session 1 | 11:00 AM - 12:00 PM | 24 |
| Van Dusen | Ian | Poster Session 2 | 3:50 PM - 4:50 PM | 24 |
| Wainwright | Yoshi | Oral Session 3 A | 2:15 PM | Fowler 112 |
| Walker | Jordan | Oral Session 1 B | 9:30 AM | Fowler 202 |
| Woldegebriel | Sara | Poster Session 2 | 3:50 PM - 4:50 PM | 3C |
| Wright | Weera | Poster Session 1 | 11:00 AM - 12:00 PM | 3 |
| Wu | Jiaqian | Poster Session 1 | 11:00 AM - 12:00 PM | 25 |
| Yan | Yan | Poster Session 2 | 3:50 PM - 4:50 PM | 25 |
| Yang | Sophia | Poster Session 1 | 11:00 AM - 12:00 PM | 26 |
| Yoshida | Taylor | Poster Session 2 | 3:50 PM - 4:50 PM | 26 |
| Young | Kyrlia | Oral Session 4 D | 3:10 PM | Fowler 302 |
| Zhang | Mary | Poster Session 1 | 11:00 AM - 12:00 PM | 27 |
| Zhang | Warren | Poster Session 2 | 3:50 PM - 4:50 PM | 27 |
| Zhao | Hedda | Oral Session 3 B | 2:15 PM | Fowler 202 |
| Zhou | Nancy | Poster Session 1 | 11:00 AM - 12:00 PM | 28 |
| Zinnen | Gianna | Poster Session 2 | 3:50 PM - 4:50 PM | 28 |

Oral Presentations: Session 1 (9:00 – 9:45 AM)

Session 1A: Fowler 112

Session Chair: Maryanne Horowitz

- 9:00 Angong Oral History, How Political Industrialization affected the Daily Life of Workers
Kevin Conroy
Mentor: Alexander Day, History
- 9:15 Koreagate: Unraveling US Scandals in the 1970s
Amy Lee
Mentor: Jane Hong, History
- 9:30 Pardon Me: Pardon and Amnesty in the Lone Star State
Spencer Raub
Mentor: Michael Vorenberg, History

Session 1B: Fowler 202

Session Chair: Diana Ngo

- 9:00 Power to the People: Protests and Education in Ethiopia
Wafa Abedin
Mentor: Diana Ngo, Economics
- 9:15 Determinants and Outcomes and Peer Heterogeneity in Higher Education
Reese Ingraham
Mentor: Kevin Williams, Economics
- 9:30 Highway to Hope: Effect of Infrastructure Investment on Post-Primary Education in Vietnam
Jordan Walker
Mentor: Diana Ngo, Economics

Session 1C: Fowler 209
Session Chair: Amy Lyford

- 9:00 Constellations of Connectivity: Activating Instagram in the Art Museum
Isabel Norsten
Mentor: Amy Lyford, Art and Art History
- 9:15 Getting Up and Making Place: Frogtown Graffiti as Placemaking Practice
Pablo Nukaya-Petralia
Mentor: Kelema Moses and Eric Frank, Art and Art History
- 9:30 Fra Girolamo Savonarola: A Study of the Friar's Influence on the Culture of Florence
Mark Pabst
Mentor: Eric Frank, Art and Art History

Oral Presentations: Session 2 (9:50 – 10:50 AM)

Session 2A: Fowler 112
Session Chair: Raul Navarro

- 9:50 Visible Light Photoredox-Catalyzed Hydroalkylation of Alkenes with 1,3-Dicarbonyls
Marc Kawada
Mentor: Jeffrey Cannon, Chemistry
- 10:05 Photoredox-catalyzed alkene dialkylation and amidoalkylation
Yuri Lee
Mentor: Jeffrey Cannon, Chemistry
- 10:20 Elective organic oxidations using layered nickel hydroxide catalyst
Griffin Eden
Mentor: Michael Hill, Chemistry
- 10:35 When is the product of eigenforms an eigenform in degree 2 at different level
Junepyo Lee
Mentor: Jim Brown, Mathematics

Session 2B: Fowler 202
Session Chair: Movindri Reddy

- 9:50 Territorial Identities and Euroskepticism: Regionalist Parties in comparative Perspective
Jack Fernandes
Mentor: Phillip Ayoub, DWA
- 10:05 Hungary, Hungary Fascism: Social Movements and Transitioning States
Nora Healy
Mentor: Movindri Reddy, DWA
- 10:20 Gendered Surveillance: Queer Ugandans in the China-Africa Digital Relationship
Thomas Robertson
Mentor: Movindri Reddy, DWA
- 10:35 A Class Act: California's Transformational Educational Policies
Aracely Ruvalcaba
Mentor: Juvenal Cortes, DWA

Session 2C: Fowler 209
Session Chair: Robin Craggs

- 9:50 What Can Cognitive Neuroscience Tell Us About the Mind-Body Problem?
Farrah Kim
Mentor: Dylan Sabo, Philosophy
- 10:05 Dialogue through Civilizations: A hermeneutical response to Clash of Civilizations
Roe Perry
Mentor: Malek Moazzam-Doulat, Religious Studies
- 10:20 Native American Environmental Ethics and the Urban Identity: The Future of Environmental Management in the Environmental Justice Movement
Stella Ramos
Mentor: Amy Holmes-Tagchungdarpa, Religious Studies
- 10:35 Yoga in Los Angeles: A Conversation between Cultures
Hope Roehrs
Mentor: Amy Holmes-Tagchungdarpa, Religious Studies

Session 2D: Fowler 302
Session Chair: Marci Raney

9:50 Recess Snapshot: Population-Level Play Preferences in Schoolyard Zones with or without Green Space

Nkese Jack

Mentor: Marci Raney, Kinesiology

10:05 Design Matters: Physical Activity and Social Behaviors of Urban Children on Schoolyards with Differing Levels of Green Space

Elena Daniel

Mentor: Marci Raney, Kinesiology

10:20 Creating an Olympic Legacy: How investment in the Games can leave an impact on affordable housing in Los Angeles

Cassie Carter

Mentor: Kelema Moses, Art and Art History

10:35 Food Security in the City of Los Angeles

Celeste Padula

Mentor: James Sadd, Geology

Poster Session 1

Posters will be on display on the 3rd floor of the Academic Commons

11:00 AM – 12:00 PM

**Poster
Number**

- 1 *Bracketing Extension of the Pioneer Metamorphic Core Complex*
Fiona Pedrick
Mentor: Margi Rusmore, Geology
- 2 *Northeast Los Angeles in color and black & white film photography*
Sam Orlin
Mentors: Dan Fineman, English and Kelema Moses, Art and Art History
- 3 *Community Resource Organizations: Health Service, Nutrition, Case Management, and Education*
Barbara Robertson, Ashley Rodarte and Weera Wright
Mentors: Heng Lam Foong, Raquel Galarza and Bhavna Shamasunder, UEP
- 4 *Producing Cytochrome P450 Mutants for Biocatalysis*
Elleni Bekele
Mentor: Andrew K. Udit, Chemistry
- 5 *Sexual Health Resources and Safe Sex Communication Among College Students*
Amelia Blankenau
Mentor: Patricia Cabral, Psychology
- 6 *Exide Technologies: The Battle and the Aftermath in the South East LA Communities*
Francisca Castro
Mentor: Peter Dreier, UEP
- 7 *Functionalized Polymers from NHC-Phosphine Zirconium Complexes Bearing Steric Hindrance*
Serena Cho
Mentor: Emmanuelle Despagnet-Ayoub, Chemistry
- 8 *A Relationship, not a Resource: Examining the Values of Place at La Selva Biological Station*
Henrik De La Torre
Mentor: Clair Morrissey, Philosophy
- 9 *Preserving Cell Viability in the Electrochemical Reshaping (EMR) of Cartilage*
Kate Dinauer
Mentor: Michael Hill, Chemistry

Poster Session 1

Posters will be on display on the 3rd floor of the Academic Commons

11:00 AM – 12:00 PM

**Poster
Number**

- 10 *Temperature Variation Within Urban Salamander Microhabitats*
Mia Forsline
Mentor: Amanda Zellmer, Biology
- 11 *Synthesis of Indolizidines from L-Pyroglutamic acid via the Ireland–Claisen rearrangement and ring-closing metathesis*
Daniel Essayan
Mentor: Jeffrey Cannon, Chemistry
- 12 *Investigating the migratory capacity of genetically engineered cells in a model of Parkinson’s Disease*
Diana Flores Barnett
Mentor: Kerry Thompson, Biology
- 13 *Anaerobic Titrations of Heme-protein/Surfactant Systems*
Wesley Hsiao
Mentor: Andrew K. Udit, Chemistry
- 14 *Synthesis of Polymetallocenes for Redox Flow Batteries*
Ashley Lam
Mentor: Michael Hill, Chemistry
- 15 *Preserving Cell Viability in the Electromechanical Reshaping (EMR) of Cartilage*
Jack Leonard
Mentor: Michael Hill, Chemistry
- 16 *Characterization of CAR T cell products from different starting populations*
Crystal Liang
Mentors: Dongrui Wang and Dr. Christine Brown, Departments of Hematology & Hematopoietic Cell Transplantation, City of Hope
- 17 *The Process and Importance to Create Affordable Housing in East LA*
Natalie Martinez
Mentor: Peter Dreier, UEP

Poster Session 1

Posters will be on display on the 3rd floor of the Academic Commons

11:00 AM – 12:00 PM

**Poster
Number**

- 18 *Housing as a Human Right: Building Community Power Through Tenant Organizing*
Olivia Olmos and Ben Smith
Mentor: Peter Dreier, UEP
- 19 *Determining Conditions for Binary Tree Labelings which Realize Extremal Hypergraphs for the Eros-Selfridge Theorem*
Benjamin Pagano
Mentor: Eric Sundberg, Mathematics
- 20 *Diastereoselective Synthesis of Unnatural Amino Acids*
Kayla Steinke
Mentor: Jeffrey Cannon, Chemistry
- 21 *Oxidation of Hydrocarbons Catalyzed by an Earth-abundant Metal Compound*
Ben Sappey
Mentor: Michael Hill, Chemistry
- 22 *Parasites in your Shrimp: Trypanorhynch Worms in *Sicyonia ingentis* and *Sicyonia penicillata**
Sam Ritmeester-Loy
Mentor: Gary Martin, Biology
- 23 *Every Woman Counts: Cancer Outreach Across Los Angeles*
Riki Eijima and Leslie Serrano
Mentors: Heng Lam Foong and Bhavna Shamasunder, UEP
- 24 *Chemical Sensing of Prey by a Bacterial Predator *Bdellovibrio bacteriovorus* via Quantitative Force Measurements*
Russell Uyemara
Mentor: Eileen Spain, Chemistry
- 25 *Atomic Force Microscopy Studies of the Cell Surface Chemistry of the Bacterial Predator *Bdellovibrio bacteriovorus**
Jiaqian Wu
Mentor: Eileen Spain, Chemistry

Poster Session 1

Posters will be on display on the 3rd floor of the Academic Commons

11:00 AM – 12:00 PM

**Poster
Number**

- 26 *Diastereoselective Synthesis of Unnatural Amino Acids Using Imine Electrophiles*
Sophia Yang
Mentor: Jeffrey Cannon, Chemistry
- 27 *A New Chronology of U.S. Asset Price Bubbles, 1825-1850*
Mary Zhang
Mentor: Andrew Jalil, Economics
- 28 *Justice in the Twilight Zone*
Nancy Zhou
Mentor: Saul Traiger, Philosophy

Oral Presentations: Session 3 (1:30 – 2:30 PM)

Session 3A: Fowler 112 Session Chair: Sarah Kozinn

- 1:30 Pherneternity
Sophia Brown
Mentor: Sarah Kozinn, Theater
- 1:45 Like Movies? Let's Write One!: The Affects of Curated Screenwriting Instruction on Los Angeles Youth
Brendan Galbreath
Mentor: Broderick Fox, Media Arts and Culture
- 2:00 23andMe and Me? - A Theatre Piece
Molly Kauffman
Mentor: Sarah Kozinn, Theater
- 2:15 American Hollow: A Filmmakers Story
Yoshi Wainwright
Mentor: Aleem Hossain, Media Arts and Culture

Session 3B: Fowler 202 Session Chair: Jay Daigle

- 1:30 Determining Conditions for Binary Tree Labelings which Realize Extremal Hypergraphs for the Erdős-Selfridge Theorem
Kate Grossmann
Mentor: Eric Sundberg, Mathematics
- 1:45 Non-Unique Factorization in Numerical Monoids
Daniel Huth
Mentor: Jay Daigle, Mathematics
- 2:00 Delta Sets of Nonminimally Generated Numerical Monoids
Andrea Stine
Mentor: Jay Daigle, Mathematics
- 2:15 Members in the Obstruction Set of N-Flatness
Hedda Zhao
Mentor: Ramin Naimi, Mathematics

Session 3C: Fowler 209

Session Chair: Sydney Mitsunaga-Whitten

- 1:30 Explaining the Joke: A Case for the Comedic in an Unfunny Time
Matt Major
Mentor: Damian Stocking, Comparative Studies in Literature and Culture
- 1:45 The Volatile Feminine Body: Expressions of Trauma, Rage, and Desire
Ariadne Makridakis
Mentor: Zinzi Clemmons, English
- 2:00 Does Art Make Sense?
Davin McKinley
Mentor: Damian Stocking, Comparative Studies in Literature and Culture
- 2:15 Everything Bursts into Flame: Kleist, Hoffmann, and the Destabilizing Forces of Rhizomatic Writing
Ebram Naftzger
Mentor: Stephen Klemm, Comparative Studies in Literature and Culture

Session 3D: Fowler 302

Session Chair: Amber Stubler

- 1:30 The Role of Water in the Occurrence and Severity of Invasive Shot Hole Borer/Fusarium Dieback in Southern California Trees
Josh Beisel
Mentor: Gretchen North, Biology
- 1:45 The Cone Snail Strikes Back: A Biomechanical Study of an Ultrafast Prey Capture
Ian Jan
Mentor: Joseph Schulz, Biology
- 2:00 The Flight of The Bumble Bee: Tracking Species Distribution Declines Across Southern California
Bryce Lewis-Smith
Mentor: Elizabeth Braker, Biology
- 2:15 The effects of multiple stressors on sponge health and microbial communities
Jade Thurnham
Mentor: Amber Stubler, Biology

Oral Presentations: Session 4 (2:40 – 3:40 PM)

Session 4A: Fowler 112

Session Chair: Amy Tahani-Madain

- 2:40 "They're All Women or Queers:" Roles of Cis-Het White Men in Social Justice Organizing
Mark Anella
Mentor: Amy Tahani-Madain, American Studies
- 2:55 Enculturation: Resilience to Stereotype Threat?
Charlene Chen
Mentor: Jaclyn Rodríguez, Latino/Latin American Studies
- 3:10 "Where are you actually from?" Multicultural Education in the Pasadena Unified School District
Kayla Lim
Mentor: Mary Christianakis, Critical Theory and Social Justice
- 3:25 "En las montañas:" The Forced Development of Communal Indigenous Survival Tactics During the Guatemalan Genocide
Estephany López
Mentor: Dolores Trevizo, Sociology

Session 4B: Fowler 202

Session Chair: Janet Scheel

- 2:40 Dark matter detection at the Jefferson lab Accelerator: estimating background
Gabriel Gregory
Mentor: Daniel Snowden-Ifft, Physics
- 2:55 Energy spectra for turbulent Rayleigh-Bénard convection
Michael Kwan
Mentor: Janet Scheel, Physics
- 3:10 Synthetic Aperture Radar for the Characterization of Enceladus's Surface
Sebastian Salazar
Mentor: Charles Oravec, Physics
- 3:25 Applications and Implementation of Widespread Autonomous Aerial Systems
Sophie Schaefer
Mentor: Charles Oravec, Physics [George Schmiedeshoff, Physics]

Session 4C: Fowler 209
Session Chair: Kelema Moses

- 2:40 Green Planet: the Art and Science of Plant Life
Naomi Field
Mentor: Aleksandra Sherman, Cognitive Science
- 2:55 Deconstructing hegemonic understandings of ecological crisis: A study of climate-induced relocation of i'Taukei villages in Fiji
Maggie Smart-McCabe
Mentor: Kelema Moses, Art and Art History
- 3:10 The Fall of the Father: Finnegans Wake and the Pharmakon
Dawson Engstrom
Mentor: Sydney Mitsunaga-Whitten, Comparative Studies in Literature and Culture
- 3:25 The Role of Fashion in Hip Hop Culture
Ronise Doss
Mentor: Ella Turenne, Office of Student Life

Session 4D: Fowler 302
Session Chair: Cheryl Okumura

- 2:40 Group A *Streptococcus* Induces Inflammasome Activation
Cheldon Alcantara
Mentor: Cheryl Okumura, Biology
- 2:55 THP-1 Macrophage Phagolysosomes Infected with Group A *Streptococcus* are not Acidified
Jimin Lee
Mentor: Cheryl Okumura, Biology
- 3:10 Isolating Group A *Streptococcus* Infected Phagosomes
Kyrlia Young
Mentor: Cheryl Okumura, Biology
- 3:25 Caloric Regulation and Stress on a Junk Food Diet
Anne Shrum
Mentors: Nancy Dess and Dale Chapman, Psychology

Poster Session 2

Posters will be on display on the 3rd floor of the Academic Commons

3:50 PM – 4:50 PM

**Poster
Number**

- 1 *Synthesis of Polymetallocenes for Redox Flow Batteries*
Sherin Aboobucker
Mentor: Michael Hill, Chemistry
- 2 *Evaluation of a Hypervalent Iodine-Mediated Oxidative Rearrangement of Phenols*
Caroline Arnall
Mentor: Raul Navarro, Chemistry
- 3A *Expression and Purification of Cu-Domain Of Cytochrome Ba 3 Subunit II from Thermus thermophilus*
Laura Chun
Mentor: Natalie Muren, Chemistry
- 3B *Modeling CuA Interfacial Electron Transfer at Gold Electrodes Modified with Functionalized SAMs*
Sierra Hunter
Mentors: Michael Hill and Natalie Muren, Chemistry
- 3C *Optimization of electrochemical conditions for the characterization of the CuA domain on cytochrome c oxidase*
Sara Woldegebriel
Mentor: Michael Hill, Chemistry
- 4 *Holocene landscape disturbances in the central highlands of Iceland as recorded in soil sediment archives*
Lori Berberian
Mentor: Darren Larsen, Geology
- 5 *Selective Electrochemical Potential by Iron-Borane Adducts*
Joshua Brown
Mentor: Emmanuelle Despagnet-Ayoub, Chemistry
- 6 *Tumor Cell Death via Superinfection by Oncolytic Chimeric Orthopoxviruses*
Lauren Chin
Mentor: Andrew K. Udit, Chemistry

Poster Session 2

Posters will be on display on the 3rd floor of the Academic Commons

3:50 PM – 4:50 PM

**Poster
Number**

- 7 *Photoredox-catalyzed alkene hydroalkylation and dialkylation*
Anne Marie Crooke
Mentor: Jeffrey Cannon, Chemistry
- 8 *Eating Behavior of Rats: How Complex Foods Relate to Emotionality*
Katherine Dews
Mentors: Nancy Dess and Dale Chapman, Psychology
- 9 *A Wireless Spacecraft Bus for a Uranus Orbiter*
Peter Elia
Mentor: Charles Oravec, Physics
- 10 *Individual Differences in Multisensory Illusory Perception*
Cassia Harrison
Mentor: Carmel Levitan, Cognitive Science
- 11 *From Sequence to Activity, Synthetic Neuroexcitatory Peptides from Fish-Hunting Cone Snails*
JP Flores
Mentor: Joseph Schulz, Biology
- 12 *Foundational Fishery Parameters for Six Macroinvertebrates of the Southern California Rocky Reefs*
Hannah Hoefs
Mentor: Dan Pondella, Biology
- 13 *Consuming the canopy: documenting caterpillar diversity of a dominant tropical forest tree*
Lucinda Kolpa
Mentor: Elizabeth Braker, Biology
- 14 *Perceptions of Sexual Risk Behavior: Differences Among Racial/Gender Groups and its influence on Sexual Risk Behavior*
Hannah Lee
Mentor: Patricia Cabral, Psychology

Poster Session 2

Posters will be on display on the 3rd floor of the Academic Commons

3:50 PM – 4:50 PM

**Poster
Number**

- 15 *Assessment of a Cyclodearomatization Approach to Access the Tricyclic Core of Swerilactone A*
Allen Li
Mentor: Raul Navarro, Chemistry
- 16 *NOX 2 Complex formation in response to Group A Streptococcus Infection*
Kialani Mackey
Mentor: Cheryl Okumura, Biology
- 17 *Light-driven electrochemical production of oxygen and fuel from CO₂ and sunlight for Mars ISRU*
Brandon Markson
Mentor: Emanuelle Despagnet-Ayoub, Chemistry
- 18 *Evaluation of a Hypervalent Iodine-Mediated Oxidative Rearrangement of Phenols*
Cheyenne Orozco
Mentor: Raul Navarro, Chemistry
- 19 *Using Virus Nanoparticles to Develop an Alternative Antagonist to Heparin*
Andrew Park
Mentor: Andrew K. Udit, Chemistry
- 20 *Community Building and Organizing in South Los Angeles*
Brenda Jackson and Andrea Lyn Mateo
Mentor: Peter Dreier, UEP
- 21 *Electrochemical Characterization of Cytochrome P450*
Laurence Seabrook
Mentor: Natalie Muren, Chemistry
- 22 *Investigation of a Hypervalent Iodine-Mediated ortho-De aromatization of Phenols to Construct the Core of Swerilactone A*
Connor Saldares
Mentor: Raul Navarro, Chemistry
- 23 *From Water to Housing: Effective and Equitable Policy Implementation in CA*
Spruce Bohlen and Chelsea Evans
Mentor: Peter Dreier, UEP

Poster Session 2

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3:50 PM – 4:50 PM

**Poster
Number**

- 24 *Pattern and Signature of Holocene Soil Erosion in the Icelandic Highlands as Recorded by Lake Sediments*
Ian Van Dusen
Mentor: Darren Larsen, Geology
- 25 *A Fast $O(N \log N)$ Second-Order Numerical Method for Two-Dimensional Space-Fractional Diffusion Equation with $O(N)$ Storage*
Yan Yan
Mentor: Treena Basu, Mathematics
- 26 *An Investigation of the Relationship Between Ethanol Exposure and Epilepsy in the Developing Brain*
Taylor Yoshida
Mentor: Kerry Thompson, Biology
- 27 *Asymmetric Cobaltocenium Molecules For Mediated Electrochemical Biocatalysis*
Warren Zhang
Mentor: Andrew K. Udit, Chemistry
- 28 *Little Leaves, Light, and Luck: Effects of canopy cover and herbivory on young leaves of a tropical forest tree*
Gianna Zinnen
Mentor: Elizabeth Braker, Biology