Schedule of Events
Occidental College, Summer Undergraduate Research Conference, July 29, 2015

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

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

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

10:00 a.m. Oral Presentations, Session Two
           Fowler Hall
           Rooms 112, 112, 207, 209

10:15 a.m. -
11:15 a.m.  Poster Presentation, Session One

12:15 p.m. Lunch
           Gresham Dining Hall

12:30 p.m.  POSTER PRESENTATIONS, SESSION TWO

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

2:30 p.m. - Oral Presentations, Session Three
            Fowler Hall
            Rooms 112, 112, 207, 209

3:30 p.m.  Closing Reception
           Quad, near Arthur G. Coons Hall Stairs
ORAL PRESENTATIONS: Session 1
9:00 am - 10:00 am
Session 1A, Fowler Hall, Room 111
Chair: Mary Lopez

9:00  *Neural Correlates of Emotional Processing*
    Alyssa Sanchez, Mentor: Carmel Levitan, Cognitive Science

9:15  *Always Slipping; Is Georges Bataille Really Unconsolable?*
    James Wronoski, Mentor: Susan Grayson, Spanish & French Literary Studies

9:30  *Inifresi and the Pledge of Allegiance: Postcolonial Mimicry and Hybridity in Guamanian Political Rhetoric*
    Kristin Oberiano, Mentor: Xio-Huang Yin, American Studies

9:45  *An Analysis of Alternativa's Microcredit Program and How it Impacts the Community of Masaya, Nicaragua*
    Lili Rodriguez, Mentor: Mary Lopez, Economics

Session 1B, Fowler Hall, Room 112
Chair: Jeffrey Cannon

9:00  *Fluorescent Dye Synthesis for Electromechanical Reshaping of Cartilage*
    Rebeca Fernández and Maya Herzig, Mentor: Michael Hill, Chemistry

9:30  *Nuclear magnetic resonance detection of lipid dynamics on gold nanoparticle surfaces*
    Kristina Chang, Mentor: Eileen Spain, Chemistry

9:45  *A Most Elusive Antidepressant: An Asymmetric Synthesis of Cymbalta*
    Alexander Graves, Mentor: Don Deardorff, Chemistry
Session 1C, Fowler Hall, Room 207
Chair: Krystale Littlejohn

9:00 “I’ll do whatever I want”: An Ethnographic Study of Agency and Gendered Sexuality in Webcam Sex Work  
Ben Weiss, Mentor: Krystale Littlejohn, Sociology

9:15 Examining Medicaid: An Econometric Analysis from 1998 to 2005  
Jessica May, Mentor: Brandon Lehr, Economics

9:30 Understanding Intergroup Dialogue: Processes and Outcomes  
Nina Monet Reynoso, Mentor: Jaclyn Rodriguez, Psychology

Session 1D, Fowler Hall, Room 209
Chair: Marcella Raney

9:00 Manipulating the Cognitive Conflict Between Science and Intuition  
Lea Theodorou, Mentor: Andrew Shtulman, Psychology

9:15 "Manipulating the Cognitive Conflict Between Science and Intuition"  
Nicholas Hung, Mentor: Andrew Shtulman, Psychology

9:30 The Impact of Wellness Workshops on the Nutrition Knowledge and Behavior of Occidental College Hourly Staff  
Zoe Namba, Mentor: Marcella Raney, Kinesiology

9:45 The Impact of wellness workshops on the physical activity knowledge and behavior of the Occidental hourly staff  
Adan Cortez, Mentor: Marcella Raney, Kinesiology
ORAL PRESENTATIONS: Session 2
10:15 am - 11:15 am

Session 2A, Fowler Hall, Room 111
Chair: James Ford

10:15  Get Out the Information: Informing Chinese American Voters
Kevin Liu, Mentor: Jennifer Piscopo, Politics

10:30  Black International Surrealism of the 20th Century
Julius DiLorenzo, Mentor: James Ford, English & Comparative Literary Studies

10:45  Multiculturalism in the United States and France: A Media Content Analysis
Jenna Mowat, Mentor: Regina Freer, Politics

11:00  The Significance of Dance in Contemporary Native American Literature
Leah Nomkin, Mentor: James Ford, English & Comparative Literary Studies

Session 2B, Fowler Hall, Room 112
Chair: Cheryl Okumura

10:15  The private lives of red-backed fairy-wrens: are interactions during the nonbreeding season indicative of social mate pairings in the breeding season?
Emma White, Mentor: John McCormack, Biology

10:30  The Effect of Neural Synchronization on Motor Coordination during Cooperation and Competition
Besher Ashouri, Mentor: Aleksandra Sherman, Cognitive Science

10:45  Multisensory Time Perception
Natalie Zyfers, Mentor: Carmel Levitan, Cognitive Science

11:00  Neural Correlates of Emotional Processing
Alyssa Sanchez, Mentor: Carmel Levitan, Cognitive Science
10:15  *Aims of Education*  
**Garrett Van**, Mentor: Carolyn Brighouse, Philosophy

10:30  *The (Mis)use of Prescription Stimulants by Healthy College Students for Cognitive Enhancement*  
**Kathleen McKenzie**, Mentors: Diana Linden, Cognitive Science and Clair Morrissey, Philosophy

10:45  *Philosophical Discussion of Contemporary Justifications for a System of Punishment*  
**Adam Rose**, Mentors: Marcia Homiak and Clair Morrissey, Philosophy

11:00  *Community Based Research for Climate Change Adaptation in Bolivia*  
**Cristina Checa**, Mentor: Clair Morrissey, Philosophy

Session 2D, Fowler Hall, Room 209  
Chair: Daniel Snowden-Ifft

10:15  *Solar Robot Project*  
**Erik Urzua**, Mentors: Charles Oravec and Daniel Snowden-Ifft, Physics

10:30  *Characterizing Resolution in Light Dark Matter Search*  
**Nicholas Waldram**, Mentor: Daniel Snowden-Ifft, Physics

10:45  *Ionization Measurements of Low Energy Recoils in the DRIFT Dark Matter Detector*  
**Alexander Lumnah**, Mentor: Daniel Snowden-Ifft, Physics
<table>
<thead>
<tr>
<th></th>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Carlos Razo</td>
<td>Manganese Induced Protein Expression of Ephrin Mouse and Early Nodulin</td>
</tr>
<tr>
<td>2</td>
<td>Emily Applewhite</td>
<td>Living in the Hybrid Zone: Testing the Species Squabble with two Mexican Highland Birds</td>
</tr>
<tr>
<td>3</td>
<td>Rishi Bhandia</td>
<td>AC Susceptibility of the Heavy Fermion Antiferromagnet YbBiPt</td>
</tr>
<tr>
<td>4</td>
<td>Marvin Browne</td>
<td>Characterization of Nutrient Uptake in Tank Bromeliads</td>
</tr>
<tr>
<td>5</td>
<td>Isha Chaturvedi</td>
<td>Case study of Oil Drilling in four Urban Cities</td>
</tr>
<tr>
<td>6</td>
<td>Jasmine Chen</td>
<td>Tracking the Equine Immune Response and Developing a Mouse Model for <em>Corynebacterium pseudotuberculosis</em></td>
</tr>
<tr>
<td>7</td>
<td>Timothy Chung</td>
<td>Dilatometer Noise in the Oxy Cold Lab using Labview</td>
</tr>
<tr>
<td>8</td>
<td>Catherine Conlon</td>
<td>Designing an Accurate Mouse Model and Optimizing Mouse Care for the Development of an Equine Vaccine Against <em>Corynebacterium pseudotuberculosis</em></td>
</tr>
<tr>
<td>9</td>
<td>Grace Coogan</td>
<td>Age Distribution and Growth Rate Comparisons of Hypsypops rubicundus from Palos Verdes and Santa Catalina Island</td>
</tr>
<tr>
<td>10</td>
<td>Kayla Currier</td>
<td>An Examination of Non-neutral Plasma Particle Motion using Poincaré Sections</td>
</tr>
<tr>
<td>11</td>
<td>Devon DeRaad</td>
<td>Habitat Restrictions of Taricha torosa in the San Gabriel Mountains</td>
</tr>
<tr>
<td>12</td>
<td>Christopher Discolo</td>
<td>An Enantioselective Synthesis of Cymbalta</td>
</tr>
<tr>
<td>13</td>
<td>Natalie Dwulet</td>
<td>Stereoselective Synthesis of Amino Acids Using the Ireland–Claisen Rearrangement</td>
</tr>
<tr>
<td>14</td>
<td>Leah Feuerman</td>
<td>Phase Transitions in a Leaky Cryostat</td>
</tr>
<tr>
<td>15</td>
<td>Sloane Fisher and</td>
<td>Food Selection</td>
</tr>
<tr>
<td>Page</td>
<td>Name</td>
<td>Title</td>
</tr>
<tr>
<td>------</td>
<td>--------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>16</td>
<td>Lisa Najarian</td>
<td>Total Synthesis of the Plakortone Family of Natural Products</td>
</tr>
<tr>
<td>17</td>
<td>Nicholas Foy</td>
<td>Group A Streptococcus Prevents Acidification of the Phagolysosome in Immune Cells</td>
</tr>
<tr>
<td>18</td>
<td>Collrane Frivold</td>
<td>Studies on the enantioselective synthesis of DAB-1</td>
</tr>
<tr>
<td>19</td>
<td>Robert George</td>
<td>Investigating the Potential of Cobalticinium Derivatives as Surrogate Mediators for reactions involving P450</td>
</tr>
<tr>
<td>20</td>
<td>Adam Goldfaden</td>
<td>Linear Stability Analysis of Onset Patterns Found in RBC Systems as a Function of Aspect Ratio</td>
</tr>
<tr>
<td>21</td>
<td>Laila Hamzai</td>
<td>Stem cell fusion with neurons: An in vitro study</td>
</tr>
<tr>
<td>22</td>
<td>Zulema Iboa</td>
<td>Understanding the Mechanism of Electrode-Bound Cytochrome P450 for Biocatalysis</td>
</tr>
<tr>
<td>23</td>
<td>Caitlin Lingelbach</td>
<td>Do Sibling Bonds Alleviate Stress? Inquiry Using a Rat Model</td>
</tr>
<tr>
<td>24</td>
<td>Anise Marshall</td>
<td>Early Exposure to Depressants Lowers Seizure Threshold</td>
</tr>
<tr>
<td>25</td>
<td>Colin McCully</td>
<td>Investigating the Potential of Cobalticinium Derivatives as Surrogate Mediators for reactions involving P450</td>
</tr>
<tr>
<td>26</td>
<td>Angus McDonald</td>
<td>Optimizing of the Reversible Adsorption of Gold Nanoparticles using Chitosan-Functionalized Iron-Oxide Nanoparticles</td>
</tr>
<tr>
<td>27</td>
<td>Tal Medovoy</td>
<td>College Students' Peer Crowd Affiliations, Risk Behavior and Socio-Emotional Well-Being</td>
</tr>
<tr>
<td>28</td>
<td>Sydney Melady</td>
<td>Geochemistry in the Coast Mountains</td>
</tr>
<tr>
<td>29</td>
<td>Collin Mostoufi</td>
<td>110,000 Seashells as a Scientific Resource: An Assessment of the Depth and Geospatial Data in the Cosman Shell Collection</td>
</tr>
<tr>
<td>30</td>
<td>Hannah Mumm</td>
<td>Ruthenium-Mediated Cytochrome P450 C-H Bond Activation</td>
</tr>
<tr>
<td>31</td>
<td>Lisa Najarian</td>
<td>Plant phytocyanins: building blocks of blood coagulation factor VIII, the causative agent of hemophilia A.</td>
</tr>
<tr>
<td>32</td>
<td>Owen Keith</td>
<td>Tuning the Plasmonic Response of Nanostructured Materials Using Interfacial Self-Assembly</td>
</tr>
<tr>
<td>33</td>
<td>Daniel Park</td>
<td>Mathematically Solving and Analyzing the Smarts Pyramid Puzzle</td>
</tr>
<tr>
<td>No.</td>
<td>Name</td>
<td>Project Title</td>
</tr>
<tr>
<td>-----</td>
<td>--------------------</td>
<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>34</td>
<td>Eduard Pey</td>
<td>Expression, Purification and Determination of Function of Early Nodulin 13 Protein</td>
</tr>
<tr>
<td>35</td>
<td>David Phillips</td>
<td>Glass Fission Track Tephrochronology</td>
</tr>
<tr>
<td>36</td>
<td>Wun Hei Jazlynn Poon</td>
<td>RE:CODE LA x Water - Creating A Water Resilience City</td>
</tr>
<tr>
<td>37</td>
<td>Omar Quddusi</td>
<td>Electrochemistry of Cytochrome C552 and p450</td>
</tr>
<tr>
<td>38</td>
<td>Alexander Rand</td>
<td>The Total Synthesis of Isofagomine and Other Iminosugars</td>
</tr>
<tr>
<td>39</td>
<td>Alexa Roeper</td>
<td>Fish assembly structure in San Diego Bay</td>
</tr>
<tr>
<td>40</td>
<td>Jessica Roginsky</td>
<td>A Powerful Paralytic: Studying Spinal Neuron Responses to a Novel Cone Snail Venom Peptide</td>
</tr>
<tr>
<td>41</td>
<td>Ed Sartor</td>
<td>Total Synthesis of Oncostemonols</td>
</tr>
<tr>
<td>42</td>
<td>Elizabeth Seibert</td>
<td>Neural Correlates of Emotional Processing</td>
</tr>
<tr>
<td>43</td>
<td>Arvin Sookezian</td>
<td>Characterization of a Unique 5 Oxidation-State Stable Cobalt Complex as a Structural Model for Investigating Small Molecule Catalysis.</td>
</tr>
<tr>
<td>44</td>
<td>Emma Spielfogel</td>
<td>Sneaky Snails: Investigating A Novel Family of Venom Peptides</td>
</tr>
<tr>
<td>45</td>
<td>Anna Stokolosa</td>
<td>Ruthenium mediated cytochrome p450 CH bond activation</td>
</tr>
<tr>
<td>46</td>
<td>Marshall Trautman</td>
<td>Geochronology of the southern Coast Mountains Batholith, British Columbia</td>
</tr>
<tr>
<td>47</td>
<td>Erin Van Zanten</td>
<td>Impact of Wellness Workshops on Physical Fitness and Health Indices of Occidental College Hourly Staff</td>
</tr>
<tr>
<td>48</td>
<td>Jenny Wang</td>
<td>Characterization of Size-Specific Au Nanoparticle Clusters Using Atomic Force Microscopy</td>
</tr>
<tr>
<td>49</td>
<td>Thomas Warfel</td>
<td>Glass Fission Track Tephrochronology Applied to the Afar Depression</td>
</tr>
<tr>
<td>50</td>
<td>Ryan Whalen</td>
<td>&quot;Streptococcal Collagen-like Protein 1 (Scl-1) Protects Group A Streptococcus from Innate Immune Defenses&quot;</td>
</tr>
<tr>
<td>51</td>
<td>Travis Wilson</td>
<td>Fusogenic Properties of Transplanted, in vivo, Neural Stem Cells within the context of Epileptic Seizures</td>
</tr>
<tr>
<td>52</td>
<td>Tyler Wilson</td>
<td>Ephrin-A1</td>
</tr>
<tr>
<td>53</td>
<td>Jerry Wong</td>
<td>The Equitable and Sustainable Alternative: Bringing Back the Invisible Drinking Fountain</td>
</tr>
<tr>
<td>54</td>
<td>Oscar Yip</td>
<td>Phenotypic Characterization of Suppressors of tba-1</td>
</tr>
</tbody>
</table>
Neural Defects

55  Joshua Yu  At and Slightly Above Onset of Simulated Rayleigh–Bénard Convection in Cylindrical Cells

56  Isabelle Yuen  Group A Streptococcus Prevents Initiation of the Oxidative Burst Response in Immune Cells

57  Gabriela Zagonel  Ruthenium Mediated Cytochrome P450 C-H Bond Activation

ORAL PRESENTATIONS: Session 3
2:30 pm - 3:30 pm

Session 3A, Fowler Hall, Room 111
Chair: Movindri Reddy

2:30  Cultivating Citizenship: Youth NGOs and Tunisia's Transition to Democracy
Keith Jones, Mentor: Movindri Reddy, Diplomacy & World Affairs

2:45  The Politics of Archiving Queer Black and Brown Experiences in Los Angeles
Adrianne Adams, Mentor: Heather Lukes, Critical Theory & Social Justice

3:00  Gendered Diaspora: Little Ethiopia
Eden Mekonen, Mentor: Movindri Reddy, Diplomacy & World Affairs

Session 3B, Fowler Hall, Room 112
Chair: Damian Stocking

2:30  Essence of Place: Contradiction and Displacement in Travel Narratives
Samantha Bellamy, Mentor: Danzy Senna, English & Comparative Literary Studies
2:45  Love Of The Underground: On The Lives of Dostoevsky and Tolstoi
Andrew Fan, Mentor: Walter Richmond, German, Russian & Classical Studies

3:00  Apiece in Our Night-time
Declan Creed, Mentor: Damian Stocking, German, Russian & Classical Studies

3:15  The Left Book Club, the Popular Front, and the USSR
Bryar Brandvold, Mentor: Marla Stone, History

Session 3C, Fowler Hall, Room 207
Chair: Jane Hong

2:30  Beautiful Androgyny: The Disruption of Traditional Gender Roles in Women’s Surrealist Art
Christina Hobbs, Mentor: Amy Lyford, Art History & Visual Arts

2:45  Hollywood’s Oriental Romance: Interracial Relationships in Cold War Motion Pictures
ye Soo (Connie) Oh, Mentor: Jane Hong, History

3:00  Feminism and Film Theory
Madison Rudd, Mentor: Warren Montag, English & Comparative Literary Studies

3:15  Denatured Nature Poetry: Multi-Species Authored Texts
Tom Mirovski, Mentor: Ari Laskin, Art History & Visual Arts

Session 3D, Fowler Hall, Room 209
Chair: Kristi Upson-Saia

2:30  An Analysis of the Pay-for-Performance Healthcare Model in Rwanda:
Does Increasing Institutional Deliveries Reduce Newborn Mortality?
Anthony Quach, Mentor: Diana Ngo, Economics

2:45  School Choice in Mexico City
Brady Fuller, Mentor: Diana Ngo, Economics

3:00  Proxying for household expenditure using dichotomous variables: Malawi
Eva Schifini, Mentor: Diana Ngo, Economics

3:15  The Dormition of Mary: Discovering Apocryphal Ancestry in the Early Italian Renaissance

Aneesah Ettress, Mentor: Kristi Upson-Saia, Religious Studies