

*Celebrating*

UNDERGRADUATE  
RESEARCH  
AND CREATIVITY

**April 26, 2017**



PROGRAM AND  
INDEX OF POSTERS,  
PRESENTATIONS  
AND EXHIBITS



Stony Brook  
University

# URECA Celebration of Undergraduate Research & Creativity

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April 26, 2017

10:00 — 4:00      **Exhibits & Presentations, Student Activities Center (SAC)**

**POSTER PRESENTATIONS/EXHIBITS** — *SAC Ballroom A*

*\*Posters arranged alphabetically by department of primary faculty mentor.*

**ORAL PRESENTATIONS** — *SAC Auditorium & Third Floor*

*COLLEGE OF ARTS AND SCIENCES:*

English Department Conference, SAC 303, 1:00-2:20

History Department Conference, SAC 304, 10:00-3:00

Psychology Department/Psi Chi Conference, SAC 305, 11:00-12:30

Writing & Rhetoric Program Conference, SAC 302, 11:45-3:30

*COLLEGE OF ENGINEERING AND APPLIED SCIENCES:*

Senior Design Presentations: SAC Auditorium, 9:00-11:00

12:30 **Welcome & Announcements** — *SAC Ballroom A*

Dr. Michael Bernstein, *Provost and Senior Vice President for Academic Affairs*

Dr. Charles Robbins, *Vice Provost for Undergraduate Education*

12:45 **Lunch for participants & mentors** — *SAC Ballroom B*

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**ART EXHIBITION** — *Paul W. Zuccaire Gallery – April 25- May 6*

*Reception: Thursday, April 27, 4:00-6:00*

## POSTER ARRANGEMENTS/ DISPLAYS

*\*Posters arranged alphabetically by department of faculty mentor.*

### **About Undergraduate Research & Creative Activities:**

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The UNDERGRADUATE RESEARCH & CREATIVE ACTIVITIES (URECA) program, founded in 1987, awards research funding and travel grants to undergraduates, and is a central point of contact for students and faculty engaged in research and creative endeavors. URECA helps bring together students and research mentors, hosts annual events to showcase student work, and publishes an annual collection of undergraduate abstracts. Check our URECA website for “Researcher of the Month” features. URECA is a program within the Office of the Provost/Division of Undergraduate Education and is funded in part by the Simons Foundation.

URECA  
Melville Library, 3rd Floor, Stony Brook University  
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CONTACT:  
Karen Kernan, Director  
Brian Frank, Staff Assistant

**RESEARCH POSTERS/EXHIBITS**  
SAC Ballroom A, 10am – 4pm

| <u>Exhibit/<br/>Poster#</u> | <u>Student Presenter(s)</u>   | <u>Project Title</u>   | <u>Mentor(s)</u>  |
|-----------------------------|---|--|---|
| <b>1</b>                    | Dwayne Moore  | The Imaging of Black Men   | Tracey Walters<br><i>Africana Studies</i>   |
| <b>2</b>                    | Kelly Smith   | St. Lucian Diaspora Cultural Preservation Through La Rose Festival   | Tracey Walters<br><i>Africana Studies</i>   |
| <b>3</b>                    | Jerome Falcone<br>Norbert Smietalo                                  | Towards a New Class of Antinociceptive Agents: Lead Optimization of an Anandamide Transport Inhibitor  | Martin Kaczocha<br><i>Anesthesiology</i>  |
| <b>4</b>                    | Wenguo Gao<br>David Ngo<br>Jiaqi Qian<br>Cornell Wu<br>Terrence Yim | A Better IV Trainer  | Christopher Gallagher<br><i>Anesthesiology</i><br>Wei Yin<br><i>Biomedical Engineering</i>                                      |
| <b>5</b>                    | Sai Palati<br>John Pfail<br>Sunjit Parmar<br>Sahana Pentyala        | Osteogenic Peptide Enhanced Biomimetic Bone Graft  | Srinivas Pentyala, <i>Anesthesiology</i><br>David Komatsu, <i>Orthopaedics</i><br>Imin Kao, <i>Mechanical Eng.</i>              |
| <b>6</b>                    | Briana Durante<br>Timur Mukhammadov                                 | Evolution of Cerebellar Posterior Lobe and Primate Cognition   | Jeroen Smaers<br><i>Anthropology</i>  |
| <b>7</b>                    | Leila Esmailzada  | Food Security and Road Access in Madagascar  | Patricia Wright<br><i>Anthropology</i>  |
| <b>8</b>                    | Rima Madan  | Comparing the Prevalence of Pathogenic Bacteria in Wild Ringtailed Lemurs ( <i>Lemur catta</i> ) Inside and Outside of Beza Mahafaly Special Reserve in Madagascar | Patricia Wright<br><i>Anthropology</i>  |
| <b>9</b>                    | Joseph Bak  | Poisson Scale Mixture Model  | Svetlozar Rachev<br><i>Applied Mathematics &amp; Statistics</i>   |
| <b>10</b>                   | Wakana Abe  | Turn Taking on LINE  | Agnes He<br><i>Asian &amp; Asian American Studies,</i><br><i>Multilingual &amp; Intercultural</i><br><i>Communication (MIC)</i> |
| <b>11</b>                   | Grace Chang   | The Hepatitis B Health Education Awareness Initiative  | Peggy Christoff<br><i>Asian &amp; Asian American Studies</i>  |
| <b>12</b>                   | Sunbeen Jung  | Linguistic Politeness and 'Face': Differences in Americans, Koreans, and Korean Americans  | Agnes He<br><i>Asian &amp; Asian American Studies,</i><br><i>Multilingual &amp; Intercultural</i><br><i>Communication (MIC)</i> |
| <b>13</b>                   | Michelle Goodman  | Investigating the Role of Id Transcription Factors in Mesodermal Cells   | Benjamin Martin<br><i>Biochemistry &amp; Cell Biology</i>   |

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|-----------------------------|---|---|---|
| <b>14</b>                   | Olivia Joseph<br>Joseph Sweeney   | Novel Class of Antinociceptive Agents: Discovering More Potent Inhibitors for the FABPs   | Dale Deutsch<br><i>Biochemistry &amp; Cell Biology</i>                            |
| <b>15</b>                   | Katherine Lo  | Understanding the Role of <i>cdh6</i> in Early Zebrafish Development via Generation of a <i>cdh6</i> Reporter Line  | Benjamin Martin<br><i>Biochemistry &amp; Cell Biology</i>                         |
| <b>16</b>                   | Henry Ng  | Improvement of CRISPR/Cas Genome Editing in <i>Candida albicans</i> by Optimizing Guide RNA Expression  | Neta Dean<br><i>Biochemistry &amp; Cell Biology</i>                               |
| <b>17</b>                   | Janie Ou Yang   | Manipulating BMT Gene Expression in <i>C. albicans</i>  | Neta Dean<br><i>Biochemistry &amp; Cell Biology</i>                               |
| <b>18</b>                   | Kevin Skier   | The Effect of Odd-Paired Mutations on the Expression of <i>Wingless</i> Enhancers   | J. Peter Gergen<br><i>Biochemistry &amp; Cell Biology</i>                         |
| <b>19</b>                   | Joseph Sweeney  | Antinociceptive Drugs: Finding Potent Pharmacological Anandamide Transport Inhibitors   | Dale Deutsch<br><i>Biochemistry &amp; Cell Biology</i>                            |
| <b>20</b>                   | Andrew Tsai   | Characterization of Nucleobase and Nucleoside Transporters in Humans and <i>E. coli</i>   | Jarrold French<br><i>Biochemistry &amp; Cell Biology, Chemistry</i>               |
| <b>21</b>                   | Jonathan Krog<br>Kian Avilla<br>Meghan Bialt<br>Sunil Deochand<br>Sarah Heacox<br>Joshua Hombrebueno<br>Tasnia Islam<br>Ryan Kawalerski<br>Jonathan Kelly<br>Samara Khan<br>Noah Michelson<br>Tasmia Prami<br>Daniel Thach<br>Brian Yang<br>Andy Yueng<br>Omar Zainul | iGEM 2016   | J. Peter Gergen<br><i>Biology, Undergraduate; Biochemistry &amp; Cell Biology</i> |
| <b>22</b>                   | Jason Abraham<br>Miteshkumar Ahir<br>Milan Gunasekera<br>John Mele<br>Kali Woods  | Implementing a Custom-Designed Arm Extension Unit Along with Virtual Reality Games as a Diagnostic Tool to Measure the Range of Motion and Promote Physical Activity in Stroke Patients | Mei Lin Chan<br><i>Biomedical Engineering</i>                                     |
| <b>23</b>                   | Arun Ajay<br>Austin Meadows   | Analysis of Cancer Cell Migration in a Microfluidic Device  | Eric Brouzes<br><i>Biomedical Engineering</i>                                     |
| <b>24</b>                   | Jueseung Baek<br>Yosman Dhar  | Identifying the Properties of Magnetic and Hydrodynamic Forces in Flowing Droplets  | Eric Brouzes<br><i>Biomedical Engineering</i>                                     |

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| <b>25</b>                   | Michael D'Agati   | Porous All-Carbon Electrodes for <i>in vivo</i> Energy Storage  | Balaji Sitharaman<br><i>Biomedical Engineering</i>  |
| <b>26</b>                   | Magdalene Fogarasi<br>Adiba Chowdhury<br>Amy Young<br>Meaghan Cellio<br>Sanjay Jonnavithula | Blood Pressure Cuff   | Wei Yin<br><i>Biomedical Engineering</i>  |
| <b>27</b>                   | Wenguo Gao<br>Nikol Palomino<br>Amanda Zigomalas  | Shear Induced Activation in Adult and Umbilical Cord Blood Platelets, and the Development of a Microfluidic Motion Analysis Platform              | Danny Bluestein<br>Jawaad Sheriff<br><i>Biomedical Engineering</i>  |
| <b>28</b>                   | Amna Haider   | Continuous Cocaine Administration Results in Significant Trabecular Bone Deterioration  | Mei Lin Chan<br>Clinton Rubin<br><i>Biomedical Engineering</i>  |
| <b>29</b>                   | Bilal Haider<br>Arun Ajay<br>Sneha Chittabathini<br>Christopher Balzano<br>Nicholas Spiezio | Station to Study Reversible Bonding of Microfluidic Chips by Clamping   | Eric Brouzes<br><i>Biomedical Engineering</i>   |
| <b>30</b>                   | Andrew Kumpfbeck  | Blood Flow in a Partially Ligated Model of Inferior Vena Cava Deep Vein Thrombosis  | Molly Frame<br><i>Biomedical Engineering</i>  |
| <b>31</b>                   | Ann Lin   | Using a Yeast Model to Study the Development of Multicellular Structures as a Mechanism of Antibiotic Resistance Employed by Infectious Pathogens | Gabor Balazsi<br><i>Biomedical Engineering;</i><br><i>Laufer Center for Physical &amp; Quantitative Biology</i> |
| <b>32</b>                   | Sravan Munagavalasa   | Spectrally-Resolved Super-Resolution Microscopy Using a Spatial Light Modulator   | Shu Jia<br><i>Biomedical Engineering</i>  |
| <b>33</b>                   | Cornell Wu  | Modulation of Endothelial Dysfunction Utilizing Receptor-Based Drugs  | Molly Frame<br><i>Biomedical Engineering</i>  |
| <b>34</b>                   | Brandon Zhuang<br>Amna Haider<br>Kevin Clare  | Increased Mechanical Strength of Cortical Bone Compensates for Trabecular Bone Deterioration in response to the Intake of Cocaine                 | Mei Lin Chan<br>Clinton Rubin<br><i>Biomedical Engineering</i>  |
| <b>35</b>                   | Ruba Akram  | Rubes: To Forgo and Forget  | Thomas Tallerico<br><i>Business, College of</i>   |
| <b>36</b>                   | Olaoluwa Alake  | Crowdfunding and Human Behavior   | Julie Huang<br><i>Business, College of</i>  |
| <b>37</b>                   | Gabriela Berrios  | Esteller Esthetics  | Thomas Tallerico<br><i>Business, College of</i>   |
| <b>38</b>                   | Nicole Cerullo  | The Role of Avoidance and Approach Message Frames in Goal Pursuit   | Denise Buhrau<br><i>Business, College of</i>  |

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|-----------------------------|-----------------------------|---|---|
| <b>39</b>                   | Sara Coan                   | Backlash Against Non-Stereotypical Men in Salary Negotiations   | Julia Bear<br><i>Business, College of</i>                                   |
| <b>40</b>                   | Ingy Ghobashy               | Understanding Motivators Behind Whistleblowing in Auditing Firms: A Focus on Auditor Competitiveness and Power Distance | Christie Comunale<br>Thomas Sexton<br><i>Business, College of</i>           |
| <b>41</b>                   | Ishani Jayasinghe           | The Effect of Packaging Color on Consumer Perception of Pharmaceutical Product  | Denise Buhrau<br><i>Business, College of</i>                                |
| <b>42</b>                   | Ostap Lopatskyy             | Sponsorship, Marketing and Organizational Functions within an Amateur Soccer Team                                       | Myron Melnyk; &<br><i>Business, College of</i>                              |
| <b>43</b>                   | Gopika Mathew               | Seapups to Seawolves: Promoting Stony Brook Athletics Kids' Club  | Ashley Yencho, <i>Athletics;</i> &<br><i>Business, College of</i>           |
| <b>44</b>                   | Sharonn Meijer              | Marketing Networking Event 2017   | Camille Abbruscato<br><i>Business, College of</i>                           |
| <b>45</b>                   | Brian Mollin                | Financial Literacy: Means of Uplifting One's Financial Status or Buzzword?  | Peter Caprariello<br><i>Business, College of</i>                            |
| <b>46</b>                   | Jean-Doris Muhuza           | Project Kids Giving   | Colleen McKean<br><i>Business, College of</i>                               |
| <b>47</b>                   | Hayley O'Rourke             | A Model of Perceived Genuineness in the Service Industry and How It Relates to Customer Loyalty                         | Peter Caprariello<br><i>Business, College of</i>                            |
| <b>48</b>                   | Francesca Papia             | Buying Patterns in the e-Commerce Industry  | Peter Caprariello<br><i>Business, College of</i>                            |
| <b>49</b>                   | Melissa Pchelka             | TARP Bailout Research   | Gokhan Torna<br><i>Business, College of</i>                                 |
| <b>50</b>                   | Erik Ponce                  | Collegiate Leadership Styles: Directive vs. Empowering  | Manuel London<br><i>Business, College of</i>                                |
| <b>51</b>                   | Davina Roberts              | Educational Influences and Behavioral Influences on Children; Private v. Public School                                  | Jiyin Cao<br><i>Business, College of</i>                                    |
| <b>52</b>                   | Frelix Rosario              | Sponsoring the Future   | Camille Abbruscato<br><i>Business, College of</i>                           |
| <b>53</b>                   | John Scalamandre            | An Analysis of the Business Side of Nonprofit Organizations through Seawolves United                                    | Andrea Lebedinski, <i>Athletics;</i> &<br><i>Business, College of</i>       |
| <b>54</b>                   | Maresca Visone              | Ella Meredith Children's Boutique Business  | Michael Monaco; &<br><i>Business, College of</i>                            |
| <b>55</b>                   | Anuva Wadera                | Marketing and Implementation of Student Staff Recruitment at Stony Brook University                                     | Timothy Chin, <i>Residential Programs;</i> &<br><i>Business, College of</i> |
| <b>56</b>                   | Joseph Whearty              | Pet Rocks, Chia Pets, and Silly Bandz: The Effects of Economic Scarcity on Herding Behavior                             | Peter Caprariello<br><i>Business, College of</i>                            |

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| <b>57</b>                   | Prianka Zaman   | An Analysis of Waiting Lines at Starbucks  | Dawn Villacci, <i>Faculty Student Assoc.; &amp; Business, College of</i> |
| <b>58</b>                   | Jahanara Zamir  | Perma-Fresc  | Gerrit Wolf<br><i>Business, College of</i>                               |
| <b>59</b>                   | Shaowen Zhao  | Motivating Healthy Eating: Temporal Mindsets, Benefit type, and Readiness for Change                       | Denise Buhrau<br><i>Business, College of</i>                             |
| <b>60</b>                   | Lily Zheng  | Sex Appeal in Advertising  | Ethan Pew<br><i>Business, College of</i>                                 |
| <b>61</b>                   | Adam Bennett<br>Helen Liu<br>Allen Tran   | Synthesis and Characterization of Gold-Palladium Nanoparticles for Improved Hydrogen Fuel Cell Performance | Miriam Rafailovich<br><i>Chemical &amp; Molecular Eng.</i>               |
| <b>62</b>                   | Veronica Burnett<br>Shweta Iyer<br>Steven Krim<br>Mike McCutcheon<br>Gurkirat Singh | Optimization of Syngas to Methanol Conversion  | Devinder Mahajan<br><i>Chemical &amp; Molecular Eng.</i>                 |
| <b>63</b>                   | Michael Callan<br>Eungyo Jang<br>Jessica Kelly<br>Kim Nguyen                        | Characterization of Pluronic F127 for the Controlled Drug Release of Vancomycin                            | Miriam Rafailovich<br><i>Chemical &amp; Molecular Eng.</i>               |
| <b>64</b>                   | Angell Chee<br>Calvin Cheng<br>Steven Zhu   | Transdermal Patch Simulation of Fentanyl through the Stratum Corneum                                       | Dilip Gersappe<br><i>Chemical &amp; Molecular Eng.</i>                   |
| <b>65</b>                   | Vivian Cheng<br>Christopher Lafergola<br>Melanie Noye                               | The Effect of Surface Properties on Pluronic F-127 Deposition  | Miriam Rafailovich<br><i>Chemical &amp; Molecular Eng.</i>               |
| <b>66</b>                   | Jillian Gannon<br>JinYing Lin<br>Danielle Wahl                                      | <i>In Situ</i> Water Management for the Optimization of Methanol Dehydration to Dimethyl Ether             | Devinder Mahajan<br><i>Chemical &amp; Molecular Eng.</i>                 |
| <b>67</b>                   | Henry Ho<br>Jesse Matsuda<br>Mailun Yang  | Effects of Graphene Oxide on Hydrogen Fuel Cells   | Miriam Rafailovich<br><i>Chemical &amp; Molecular Eng.</i>               |
| <b>68</b>                   | Yunxiao Jiang<br>Kevin Lee<br>Jake Lindberg<br>DongNi Qiu<br>Aristidis Mihalos      | The Lumburnator, a Next Generation Wood Stove  | Devinder Mahajan<br><i>Chemical &amp; Molecular Eng.</i>                 |
| <b>69</b>                   | Sandhiya Kannan<br>John Mikhail<br>Raphael Prodromou                                | Pressure-Time Dependence and Simulation of Carbon Dioxide Hydrate Formation                                | Tadanori Koga<br><i>Chemical &amp; Molecular Eng.</i>                    |



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|-----------------------------|--|--|---|
| <b>70</b>                   | Tzu-Chi Kao<br>Pablo Henriquez<br>Olivia Holmes                | Zeolites Based Catalytic Processes for Furfuryl Alcohol Dehydration: Activity test, Characterization and Deactivation of Catalysts | Taejin Kim<br><i>Chemical &amp; Molecular Eng.</i>            |
| <b>71</b>                   | Wooyoung Kwon<br>Jian Lin<br>Michael Okunewitch                | Toxicity of Bismuth Oxyhalide Particles Compared to Titanium Dioxide Nanoparticles on Dermal Fibroblast Cells                      | Miriam Rafailovich<br><i>Chemical &amp; Molecular Eng.</i>    |
| <b>72</b>                   | Megan Lenore<br>Nicole Passariello<br>Asim Rattu               | The Effects of SBS Triblock Copolymer Surface Roughness on Protein Adsorption  | Tadanori Koga<br><i>Chemical &amp; Molecular Eng.</i>         |
| <b>73</b>                   | Maurinne Sullivan<br>Olivia Chen                               | Seed Mediated Growth of Highly Monodispersed Spherical Gold Nanoparticles  | Rina Tannenbaum<br><i>Chemical &amp; Molecular Eng.</i>       |
| <b>74</b>                   | Tahseen Tabassum<br>Marija Iloska<br>Noriko Taira              | Development and Application of 3D Printed Micro Reactors In Chemical Engineering Studies   | Taejin Kim<br><i>Chemical &amp; Molecular Eng.</i>            |
| <b>75</b>                   | Visal Thalawe<br>Arachchilage                                  | Design Synthesis and Characterization of Radio-Frequency Responsive Nano-particles for Bio-Medicinal Applications                  | Tatsiana Mironava<br><i>Chemical &amp; Molecular Eng.</i>     |
| <b>76</b>                   | Patrick Yang<br>Carmenn Ooi<br>Marolyn Liang<br>Jeong Suk Byun | Salt Loading Effect on Furfuryl Alcohol Separation from MoO <sub>3</sub> Catalyzed Furfuryl Alcohol Products                       | Taejin Kim<br><i>Chemical &amp; Molecular Eng.</i>            |
| <b>77</b>                   | Mustufa Babar  | Structure and Activity Relationship Study of Novel LpxC Inhibitors through Residence Time  | Peter Tonge<br><i>Chemistry</i>                               |
| <b>78</b>                   | Elle Butler Basner<br>Maitreyee Kale                           | STEM Education Research  | Gregory Rushton<br><i>Chemistry</i>                           |
| <b>79</b>                   | Kelly Eckartt  | Ca <sup>2+</sup> Sensitive Split Enzyme System for Marking Neural Circuitry  | Scott Laughlin<br><i>Chemistry</i>                            |
| <b>80</b>                   | Joshua Farr  | Fluorescent Small Molecule Probes as Live Chemical Imaging Tools   | Scott Laughlin<br><i>Chemistry</i>                            |
| <b>81</b>                   | Tylene Hilaire   | Developing an Assay for the Kinetic Measurement of Nucleobase Transporters   | Jarrod French<br><i>Chemistry, Biochemistry</i>               |
| <b>82</b>                   | Tyger Salters  | Progress Towards the Synthesis of a Diarylethene-Based Photoswitchable Ligand  | Melanie Chiu<br><i>Chemistry</i>                              |
| <b>83</b>                   | Christie Shea  | Design, Computational Analysis, and Synthesis of Fluorinated Combretastatin A-4 Analogs  | Iwao Ojima<br><i>Chemistry</i>                                |
| <b>84</b>                   | Celsey Stahlman  | New Drug Substances as Potential Inhibitors of the Pro-Inflammatory Cytokines and the Inducible Matrix Metalloproteinases          | Francis Johnson<br><i>Chemistry, Pharmacological Sciences</i> |

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| <b>85</b>                   | Justin Antonette<br>Anthony Chubenko<br>Kennedy Ezumah<br>Alexandra Smaldone           | Long Beach Groin Reconstruction   | Harold Walker<br><i>Civil Engineering</i>                                |
| <b>86</b>                   | Nelsy Badia  | The Effects of Corrosion and Corrosion Products on the Frictional Behavior of Slipcritical Eye-bars | Ryan K. Giles<br><i>Civil Engineering</i>                                |
| <b>87</b>                   | Tamara Baez<br>John Esposito<br>Kevin Hill<br>Eric Steiger<br>Yuntong Zhao             | Restoration of Tuthills Creek Bridge in the Village of Patchogue                                    | Ryan K. Giles<br><i>Civil Engineering</i>                                |
| <b>88</b>                   | Andrew Brems<br>Andrew Mock<br>Thomas Kennedy<br>Tamara Goodwin                        | Micro Concrete Roofing Tiles in Turkana, Kenya  | Harold Walker<br><i>Civil Engineering</i>                                |
| <b>89</b>                   | Jason Brenish<br>Emanuel Gonzalez<br>Alexander Horeth<br>Michael Krinkov               | Water Wave Generator for Instructional Setting  | Ali Farhadzadeh<br><i>Civil Engineering</i>                              |
| <b>90</b>                   | Andrew Brennan<br>Daniel Chan<br>Laura Coronel<br>Mudassar Memon<br>Dylan Schreiber    | Interlocking Soil Stabilized Bricks   | Harold Walker<br><i>Civil Engineering</i>                                |
| <b>91</b>                   | Christopher Butkos<br>Gana Raventhirarajah<br>John Defeo<br>Alex Corpolongo<br>Bin Lin | Beneficial Use of Recycled Glass  | Harold Walker<br><i>Civil Engineering</i>                                |
| <b>92</b>                   | Laura Coronel  | Truss Optimization  | Ryan K. Giles<br><i>Civil Engineering</i>                                |
| <b>93</b>                   | Thomas Kennedy   | Analytical and Experimental Analysis of Rocking Columns Subject to Seismic Excitation               | Ryan K. Giles<br><i>Civil Engineering</i>                                |
| <b>94</b>                   | Andrew Mock<br>Andrew Brennan<br>John Esposito   | Vernacular Architecture   | Ryan K. Giles<br><i>Civil Engineering</i>                                |
| <b>95</b>                   | Joshua Cehulic<br>Alex Scarlatos<br>Marisa DePasquale                                  | CryptoCLASH: A Strategic Board Game Examining Volatility in Digital Currency and Markets            | Richard McKenna<br><i>Computer Science</i>                               |
| <b>96</b>                   | Collin Champagne<br>Alex Scarlatos   | The Exploration of Hybrid Synthesizer Architecture and Implementation                               | Margaret Schedel<br><i>cDACT &amp; Music;<br/>&amp; Computer Science</i> |

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|-----------------------------|---|--|--|
| <b>97</b>                   | Jonathan Chu<br>Jacky Chen<br>Andrew Dionisio<br>Timothy Hart                         | MechANDized Assistance   | Tony Scarlatos<br><i>Computer Science</i>                                |
| <b>98</b>                   | Michael Francis   | SBU Class Notifier   | Paul Fodor<br><i>Computer Science</i>                                    |
| <b>99</b>                   | Alex Scarlatos  | Falling Water: Architecting a Soundscape   | Margaret Schedel<br><i>cDACT &amp; Music;<br/>&amp; Computer Science</i> |
| <b>100</b>                  | Marcus Warner<br>Annie Hsin-Yun Tsai<br>Kevin Winslow<br>Gregory Parker               | Overture: Using Music Creation and Interaction in the Treatment of Emotional Illnesses   | Tony Scarlatos<br><i>Computer Science</i>                                |
| <b>101</b>                  | Diana Hernandez   | Nation Building and Colonization in Salarrué's <i>Cuentos de Barro</i>   | Timothy August<br><i>Cultural Studies &amp; Comparative Literature</i>   |
| <b>102</b>                  | Michelle Yuan Zou   | Salivary Gland Inoculation with MCMV Suggests That Parotid Glands May Act as Mucosal Inductive Sites via the Formation of Ectopic Germinal Centers | Lucille London<br><i>Dental School -Oral Biology &amp; Pathology</i>     |
| <b>103</b>                  | Yun Shi Liang<br>Eshani Goradia<br>Adiba Chowdhury<br>Samuel Urena<br>Ryan Vol Dollen | The Effects of Storage Conditions on Stability of an Antigen-Model Protein within the ImmunoMatrix Patch   | Katarzyna Sawicka<br><i>Dermatology</i>                                  |
| <b>104</b>                  | Samuel Urena<br>Adiba Chowdhury<br>Ryan Von Dollen<br>Yun Shi Liang<br>Eshani Goradia | The Effect of Temperature and Humidity on Nanofiber Morphology   | Katarzyna Sawicka<br><i>Dermatology</i>                                  |
| <b>105</b>                  | Ryan Von Dollen<br>Adiba Chowdhury<br>Eshani Goradia<br>Yun Shi Liang<br>Samuel Urena | Dermal Delivery of Horseradish Peroxidase (HRP) via a Novel Noninvasive Vaccination Device (Porcine Model)   | Katarzyna Sawicka<br><i>Dermatology</i>                                  |
| <b>106</b>                  | Lisa Caligiuri  | Adaptive Significance of King Penguin ( <i>Aptenodytes patagonicus</i> ) Crèches   | Heather Lynch<br><i>Ecology &amp; Evolution</i>                          |
| <b>107</b>                  | Nicole Chan<br>Yoshiaki Higashide   | The Use of 3D Printed Models to Study Heat Distribution in the Fiddler Crab <i>Uca pugilator</i>   | Jeffrey Levinton<br><i>Ecology &amp; Evolution</i>                       |
| <b>108</b>                  | Jacky Chuen<br>Sunghwan Yoon  | The Role of Glycolytic Enzymes on the Lifespan of <i>Drosophila melanogaster</i>   | Walter Eanes<br>Spencer Koury<br><i>Ecology &amp; Evolution</i>          |

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| <b>109</b>                  | Alejandro Gil Gomez                 | Genetic Variation in Drug-Drug Interactions in <i>Saccharomyces cerevisiae</i>   | Joshua Rest<br><i>Ecology &amp; Evolution</i>                                       |
| <b>110</b>                  | Zheni Gusho                         | Effects of Competition and CO2 Levels: A Meta-Analysis   | Jessica Gurevitch<br><i>Ecology &amp; Evolution</i>                                 |
| <b>111</b>                  | Po-Yu Huang                         | Sexual Dimorphism of <i>Drosophila melanogaster</i> pre-adult traits   | John True<br><i>Ecology &amp; Evolution</i>   |
| <b>112</b>                  | Vanessa Kennelly                    | Variation in Life History and Population Dynamics of King Penguins, <i>Aptenodytes patagonicus</i> , Across Phylogenetic and Regional Scales | Heather Lynch<br>Maureen Lynch<br>Catherine Foley<br><i>Ecology &amp; Evolution</i> |
| <b>113</b>                  | Erin O'Connor                       | Meta-Analysis of the Impact of Prescribed Fire on Forest Soil Nutrients  | Jessica Gurevitch<br><i>Ecology &amp; Evolution</i>                                 |
| <b>114</b>                  | Medha Pandey                        | Variation in the Ecstatic Display Call of the Gentoo Penguin ( <i>Pygoscelis papua</i> ) associated with Behavioral Responses                | Heather Lynch<br>Maureen Lynch<br><i>Ecology &amp; Evolution</i>                    |
| <b>115</b>                  | Kaitlin Riley<br>Aren Kalash        | Testing for Potential Allelopathic Properties of <i>Centaurea stoebe</i>   | Jessica Gurevitch<br><i>Ecology &amp; Evolution</i>                                 |
| <b>116</b>                  | Gregory Smith                       | Examining the Disputed Role of FOXP2 in Modern Human Origins   | Brenna Henn<br><i>Ecology &amp; Evolution</i>                                       |
| <b>117</b>                  | Katla Thorsen                       | Climate Indices Explain Variations in Fur Seal Pup Numbers   | Heather Lynch<br>Casey Youngflesh<br><i>Ecology &amp; Evolution</i>                 |
| <b>118</b>                  | Christopher Washer<br>Yakov Pichkar | Association Mapping and Contemporary Evolution Analysis of Flowering Time in <i>Brassica rapa</i>  | Joshua Rest<br><i>Ecology &amp; Evolution</i>                                       |
| <b>119</b>                  | Arianna West                        | The Effect of Oceanographic Conditions on <i>Pygoscelis</i> Penguin Population Dynamics  | Heather Lynch<br><i>Ecology &amp; Evolution</i>                                     |
| <b>120</b>                  | Helen Wong                          | Phylogenetic Relationships Between Conservation Risk and Life History Traits in Seabirds   | Heather Lynch<br><i>Ecology &amp; Evolution</i>                                     |
| <b>121</b>                  | Tuya Yokoyama                       | Environmental Differences in Cell-to-Cell Expression Variation   | Joshua Rest<br><i>Ecology &amp; Evolution</i>                                       |
| <b>122</b>                  | Matthew Choong                      | An Economic Theory of Limited Self-Control   | Warren Sanderson<br><i>Economics</i>  |
| <b>123</b>                  | Yousef El-laham                     | Breaking the Curse-of-Dimensionality of Adaptive Importance Sampling Methods   | Monica Bugallo<br>Petar Djurić<br><i>Electrical &amp; Computer Eng.</i>             |
| <b>124</b>                  | Kristina Finnelli                   | Compositional Differences in Hawaiian and New Mexican Volcanic Samples through Visible and Infrared Spectroscopy                             | Deanne Rogers<br><i>Geosciences</i>   |

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| <b>125</b>                  | Alexander Kling   | U-PB Ages for Zircon from SBU Campus Loess   | E. Troy Rasbury<br><i>Geosciences</i>  |
| <b>126</b>                  | Krista Pullen   | “Look out!”: Do Verbal Warnings Help People Retrieve Appropriate Gait Patterns?              | Erin Vasudevan<br><i>Health &amp; Rehabilitation Sciences</i>  |
| <b>127</b>                  | Shafkat Salam<br>Atif Ahmed<br>Daniel Arifakis  | Longitudinal Characterization of Forelimb Motor Deficits after a Cervical Spinal Cord Injury | Prithvi Shah<br><i>Health &amp; Rehabilitation Sciences</i>  |
| <b>128</b>                  | Oluomachukwu Agwai<br>Jacqueline McGlynn<br>Joseph Giambalvo<br>Kharese Gittens<br>Yeonjae Ji | Self-sorting Recycling Machine   | Anthony Olivo<br><i>Elec. &amp; Computer Engineering;</i><br>Joseph Schurz<br>Balaji Raghothamachar<br><i>Materials Science &amp; Chemical Engineering</i> |
| <b>129</b>                  | Narmin Hasanat<br>Zachary Licht<br>Howard Siegfried<br>Andrew Sullivan<br>Antonio Xu Liu      | H <sub>2</sub> Woah: Water Consumption Monitoring Device                                     | Balaji Raghothamachar<br>Gregory Smith<br><i>Materials Science &amp; Chemical Engineering</i>  |
| <b>130</b>                  | Ankit Patel   | Irregular Primes and Quadratic Reciprocity   | Lisa Berger<br><i>Mathematics</i>  |
| <b>131</b>                  | Mohamad Ali-Bappi<br>Haocheng Yang<br>Haoxiang Yang<br>Luxi Zhang                             | Natural Human Computer Interface controlled Drone  | Vivek Yadav<br><i>Mechanical Engineering</i>   |
| <b>132</b>                  | Shao Peng Chen<br>Ricky Huynh<br>Run Jing Li<br>Alexandria Severino                           | Solar Electric Drivetrain System   | Vivek Yadav<br>Jay Mendelson<br>Qiaode Ge<br><i>Mechanical Engineering</i>   |
| <b>133</b>                  | Anthony Diaz<br>Tarek Neshiewat<br>Han Ku Nam<br>Gyeong Hu Kim                                | Smart Recycling Machine  | Vivek Yadav<br><i>Mechanical Engineering</i>   |
| <b>134</b>                  | Matt Kesich<br>Aravinda Bhatt<br>Neil Dusling<br>Ian Greenberg<br>Spencer Locks               | Stony Brook Motorsports: 2017 Baja SAE Off-Road Vehicle                                      | Noah Machtay<br><i>Mechanical Engineering</i>  |
| <b>135</b>                  | Acacia Leakey<br>Allisha Parvez<br>Ayesha Syed<br>Anna Gonoshilova<br>Valery Zajkov           | Cooling Device for Fresh Produce   | Jay Mendelson<br>Jon Longtin<br><i>Mechanical Engineering</i>  |

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| <b>136</b>                  | Dylan Magee<br>Tony Chen<br>Jonathan Chu<br>Leonardo Rubio                             | Device for Measuring Misalignment in Sand Cast Parts for X-Ray Inspection  | Robert Kukta<br>Jon Longtin<br>Qiaode Ge<br><i>Mechanical Engineering</i>                                    |
| <b>137</b>                  | Lauren Sprung<br>Yongmin Kim<br>Jonathan Bellon<br>Michael Burns                       | Production of a Collapsible Reduced Size Acoustic Guitar   | Thomas Rosati<br><i>Mechanical Engineering</i>   |
| <b>138</b>                  | Skutes Tenaw<br>Alex Flores<br>Jonathan Hurtado<br>Steven Quijano<br>Catalina Buitrago | Underactuated Robotic Hand   | Dmitri Gavrilov<br><i>Electrical Engineering</i><br>Nilanjan Chakraborty<br><i>Mechanical Engineering</i>    |
| <b>139</b>                  | Joseph Arena   | Survival Among Early Stage Lung Cancer Patients Treated with Lobectomy vs SBRT   | Barbara Nemesure<br><i>Medicine- Family, Population &amp; Preventive Medicine</i>                            |
| <b>140</b>                  | Matthew DiGiovanni   | Determining the Cytotoxic Effects of a Novel Valproic Acid Derivative on Pancreatic Cancer <i>In Vitro</i>   | Gerardo Mackenzie<br><i>Medicine-UC Davis</i>  |
| <b>141</b>                  | Olivia Hu  | The Effects of Peripartum Antibiotics on Vertical Transmission of the Maternal Microbiome: Research in Progress  | Gretchen Mockler<br><i>Medicine-Family, Population &amp; Preventive Medicine</i>                             |
| <b>142</b>                  | Evelyn Kandov  | The Dual Roles of Membrane and Soluble Forms of gC1qR and C1q in the Breast Cancer Microenvironment  | Berhane Ghebrehiwet<br><i>Medicine</i>   |
| <b>143</b>                  | Ruchi Khatiwala  | Characterization of BPTF as a Novel Epigenetic Drug Target in Breast Cancer  | Camila Dos Santos<br><i>Cold Spring Harbor Laboratory</i>  |
| <b>144</b>                  | Ryan Linzer  | The Effect of Sphingolipid Metabolism on Charcot-Marie-Tooth Disease   | Can Senkal<br><i>Medicine – Cancer Center</i>  |
| <b>145</b>                  | Naveen Mallangada  | A Novel Curcumin Derivative Inhibits Active Ras and its Downstream Pathway in Pancreatic Cancer  | Gerardo Mackenzie<br><i>Medicine-Family, Population &amp; Preventive Medicine, SBU; Nutrition - UC Davis</i> |
| <b>146</b>                  | Jonathan Millings  | Phospho-Valproic Acid Induces Mitochondrial-Dependent Apoptosis by Reducing Mitochondrial STAT3 in Human Glioblastoma Cells  | Gerardo Mackenzie<br><i>Medicine-Family, Population &amp; Preventive Medicine, SBU; Nutrition - UC Davis</i> |
| <b>147</b>                  | Lopa Shah  | Adenosine A <sub>2A</sub> Receptor (A <sub>2A</sub> R) Diminishes Wear Particle-Mediated Osteolysis, Increases Bone Formation and Regulates Expression of Axonal Guidance Proteins (AGP) by Macrophages, Osteoclasts (OC) and Osteoblasts (OB) | Bruce Cronstein<br><i>Medicine - NYU</i>   |

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| <b>148</b>                  | Joselin Vargas<br>Matthew DiGiovanni | The Cytotoxic Effect of a Novel Curcumin-Derivative in Pancreatic Cancer Cells                                    | Gerardo Mackenzie<br><i>Medicine-Family, Population &amp; Preventive Medicine, SBU; Nutrition - UC Davis</i> |
| <b>149</b>                  | Winnie Yu                            | Antibodies as a Passive Immunotherapy Treatment of <i>Klebsiella pneumoniae</i>                                   | Bettina Fries<br><i>Medicine- Infectious Diseases, Mol. Genetics &amp; Microbiology</i>                      |
| <b>150</b>                  | Page Keating                         | Sequencing and Expression of the Pyrin Gene of Brown and Black Rats   | James Bliska<br><i>Molecular Genetics &amp; Microbiology</i>   |
| <b>151</b>                  | Wei-Chieh Tseng                      | Kinetic Analysis of Prodrug Activation by HDAC & CTSL in Treatment of Human Multiple Myeloma                      | Michael Hayman<br><i>Molecular Genetics &amp; Microbiology</i>   |
| <b>152</b>                  | Logan Becker                         | Detection of Phase Amplitude Coupling   | Il Memming Park<br><i>Neurobiology &amp; Behavior</i>  |
| <b>153</b>                  | Ibrahim Elmaghrbi                    | RCOR2 Effect on Neurogenesis in Early Zebrafish Development   | Howard Sirotkin<br><i>Neurobiology &amp; Behavior</i>  |
| <b>154</b>                  | Aaron Gochman                        | Decoupling of Outer Structures Mediates Over-activation of NMDARs   | Lonnie Wollmuth<br><i>Neurobiology &amp; Behavior, Biochemistry &amp; Cell Biology</i>                       |
| <b>155</b>                  | Ayman Haider                         | Investigating the Central Ion Permeation Pathway in NMDA Receptors  | Lonnie Wollmuth<br><i>Neurobiology &amp; Behavior, Biochemistry &amp; Cell Biology</i>                       |
| <b>156</b>                  | Yuyan Huang                          | Analysis of Transcriptome Changes in Rat Models of Post-Traumatic Stress Disorder                                 | David McKinnon<br><i>Neurobiology &amp; Behavior</i><br>Barbara Rosati<br><i>Physiology &amp; Biophysics</i> |
| <b>157</b>                  | Danielle Jean                        | The Effect of 8-OH- DPAT on LUT Function in Rats  | William Collins<br><i>Neurobiology &amp; Behavior</i><br>Irene Solomon<br><i>Physiology &amp; Biophysics</i> |
| <b>158</b>                  | William Kennedy<br>Kristoffer Walsh  | An Itch to Switch: Diversification of Ion Channels in Arthropods by Alternative Splicing                          | Maurice Kernan<br><i>Neurobiology &amp; Behavior</i>   |
| <b>159</b>                  | Rhea Persaud                         | Assessment of Dynamic Voiding Efficiency in Adult Female Rats: Effect of Sustained and Acute Intermittent Hypoxia | William Collins<br><i>Neurobiology &amp; Behavior</i>  |
| <b>160</b>                  | Andrew Sullivan                      | Analysis of Calcium Indicator Data in the Ventral Subiculum   | Lorna Role<br><i>Neurobiology &amp; Behavior</i><br>David Talmage<br><i>Pharmacological Sciences</i>         |

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| <b>161</b>                  | Simran Gupta  | The SANT Domain in Keratin17 Regulates Cytokine and Prostaglandin Synthase Expression in Pancreatic Cancer Cell Lines                | Kenneth Shroyer<br>Cindy V. Leiton<br><i>Pathology</i>  |
| <b>162</b>                  | Kennelia Mellanson  | Keratin 17 Is Not Induced by Hypoxia and Is Not Involved in Stabilization of HIF-1a in PDAC Cell Lines                               | Kenneth Shroyer<br>Cindy V. Leiton<br><i>Pathology</i>  |
| <b>163</b>                  | Sai Sreenivasamurthy  | Recovery Effects of MNT-1 Human Melanocytes After Exposure to Citrate-Coated Platinum Nanoparticles                                  | Sanford Simon<br><i>Pathology, Biochemistry &amp; Cell Biology</i>  |
| <b>164</b>                  | Briana Urquilla<br>Amanda Witbeck   | Keratin 17 Interacts with the CIP/KIP Family of Tumor Suppressors via Domains Similar to Cyclins in Pancreatic Ductal Adenocarcinoma | Kenneth Shroyer<br><i>Pathology</i>   |
| <b>165</b>                  | Sanket Desai  | ADAM10 Regulates Neural Stem Cell Properties by Regulating its Positioning in the SVZ-Niche  | Adan Aguirre<br><i>Pharmacological Sciences</i>   |
| <b>166</b>                  | Kathryn Eckartt   | Spatially Resolved Protein Labeling in Mycobacteria  | Jessica Seeliger<br><i>Pharmacological Sciences</i>   |
| <b>167</b>                  | Katie Luc   | Detection of Oxidatively Generated DNA-Protein Crosslinks in Lunar Simulant Treated Mouse Lung Slices                                | Bruce Demple<br><i>Pharmacological Sciences</i>   |
| <b>168</b>                  | Veevek Shah   | Identification of Potential Inhibitors of PLD6 as Therapeutic Drugs for Triple Negative Breast Cancer                                | Michael Frohman<br><i>Pharmacological Sciences</i>  |
| <b>169</b>                  | Qian (Selina) Yang  | Matrix Metalloproteinase 12 Regulates Planar Cell Polarity in Ependymal cells  | Holly Colognato<br><i>Pharmacological Sciences</i>  |
| <b>170</b>                  | Anthony Catanese  | Skytrino: A Novel Method to Identify Astrophysical Neutrinos in IceCube  | Joanna Kiryluk<br><i>Physics &amp; Astronomy</i>  |
| <b>171</b>                  | Benjamin Chase<br>Gregory Matousek<br>Abigail Bishop<br>Elizabeth Dunning<br>Shawn Thompson | A Test Setup Using GEM detectors for the sPHENIX TPC   | Abhay Deshpande<br><i>Physics &amp; Astronomy</i>   |
| <b>172</b>                  | Lillian de Bruin  | Reconstructed Energy Resolutions of Electron Neutrino Events in the IceCube Dust Layer   | Joanna Kiryluk<br><i>Physics &amp; Astronomy</i>  |
| <b>173</b>                  | Meghan Donnelly   | Solar Flare Detection with an Arduino-based Radio Receiver   | Joanna Kiryluk<br><i>Physics &amp; Astronomy</i><br>Ernst Sichtermann<br><i>Lawrence Berkeley National Laboratory</i> |
| <b>174</b>                  | Jessica Flores  | Particle Trajectory Visualization and Identification with Timepix Detectors  | James Pinfold, Albert de Roeck,<br>Thomas Whyntie,<br><i>Physics – CERN, Switzerland</i>                              |



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| <b>175</b>                  | Jasmine Garani  | The Snapshot A Star Survey (SASSY)   | Michael Simon<br><i>Physics &amp; Astronomy</i>   |
| <b>176</b>                  | Thomas Krahulik   | Studying Inclusive and Exclusive Processes in ep Collisions for a Future Electron Ion Collider Experiment            | Abhay Deshpande<br>Nils Feege<br><i>Physics &amp; Astronomy</i>                           |
| <b>177</b>                  | Joshua LaBounty   | Identification of Leptoquark Events in Simulated Electron-Proton Collisions  | Abhay Deshpande<br>Nils Feege<br><i>Physics &amp; Astronomy</i>                           |
| <b>178</b>                  | HoChun Marcus Lo<br>Raffaele Miceli<br>Max Stanley<br>Grant Richmond                        | Analysis of a Cat's Eye Retroreflector Using a He-Ne Laser   | Harold Metcalf<br><i>Physics &amp; Astronomy</i>  |
| <b>179</b>                  | Lorena Mezini   | Analyzing Reconstruction Algorithm for The IceCube Neutrino Observatory  | Joanna Kiryluk<br><i>Physics &amp; Astronomy</i>  |
| <b>180</b>                  | Ho Nam Nguyen   | Measuring the Small-Scale Dark Matter Power Spectrum with High-Resolution CMB Lensing                                | Neelima Sehgal<br><i>Physics &amp; Astronomy</i>  |
| <b>181</b>                  | Rourke Sekelsky<br>Josh LaBounty<br>Thomas Krahulik<br>Kyle Capobianco-Hogan<br>Sean Jeffas | Optimizing a Magnetic Cloak for Use in a Proposed Electron Ion Collider Experiment                                   | Abhay Deshpande<br>Nils Feege<br><i>Physics &amp; Astronomy</i>                           |
| <b>182</b>                  | Crystal Young   | Constructing a Time Projection Chamber Field Cage  | Thomas Hemmick<br><i>Physics &amp; Astronomy</i>  |
| <b>183</b>                  | Jiangping Zhao  | Searching for Periodicities in Nova Light Curves   | Frederick Walter<br><i>Physics &amp; Astronomy</i>  |
| <b>184</b>                  | Arun Nallainathan   | Hypoxia Underlies the Development of 'Chemobrain' in Rats Administered a Breast Cancer Adjuvant Chemotherapy Regimen | Barbara Rosati<br><i>Physiology &amp; Biophysics</i>                                      |
| <b>185</b>                  | Benjamin Carter   | Redistribution and Uncertain Income: An Economic Experiment on the Size of Government under Majority Rule            | Peter DeScioli<br><i>Political Science</i>  |
| <b>186</b>                  | Sarah Eller   | Party Loyalty vs. Racial Identity in the 2012 Election   | Helmut Norporth<br><i>Political Science</i><br>Georges Fournon<br><i>Africana Studies</i> |
| <b>187</b>                  | Marissa Kelberman   | Moral Dilemmas of Debt Repayment   | Alessandro Del Ponte<br><i>Political Science</i>  |
| <b>188</b>                  | Ahmad Malik   | The Political Viability of Space Exploration   | James Klurfeld<br><i>Journalism, School of;<br/>&amp; Political Science Department</i>    |

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| <b>189</b>                  | Li Syuen Pang   | The Validity of China's Claims in the East and South China Sea   | Harsh Bhasin<br><i>Political Science</i>   |
| <b>190</b>                  | Kevin Rutigliano  | The Secret War in Laos: A Blueprint for U.S. Intervention  | Helmut Norporth<br><i>Political Science</i>  |
| <b>191</b>                  | Munifa Wheeler<br>Megan Tan   | The Mass Media and Infectious Disease: An Examination of the Quality of News Coverage of the Zika Virus  | Jennifer Jerit<br><i>Political Science</i>   |
| <b>192</b>                  | Taylor Brant  | Parent-teen Daughter Relationship Quality as it Relates to Parental Knowledge of Adolescent Depressed Mood   | Greg Perlman, <i>Psychiatry</i><br>Roman Kotov, <i>Psychiatry</i><br>Daniel Klein, <i>Psychology</i> |
| <b>193</b>                  | Megan Chang<br>Cynthia Lowe   | Measuring Fear-Motivated Behavior in Amygdala-Lesioned Turtles ( <i>Chrysemys picta</i> )  | Alice Powers<br><i>Psychology</i>  |
| <b>194</b>                  | Kristin Clark<br>Amanda Ng<br>Anna Tarasova<br>Nicholas Tkach             | Mothers' Executive Functioning Predicts Sensitivity to Infant Distress   | Kristin Bernard<br><i>Psychology</i>   |
| <b>195</b>                  | Christopher Esposito<br>Lee Santore<br>Heather Watson<br>Amanda Stoerback | The Relationship Between Processing Speed, the P100, and Autism Symptoms in Adults   | Matthew Lerner<br><i>Psychology</i>  |
| <b>196</b>                  | Laetitia Eugene   | Cognitive Deficits and Dopamine Depletion in Parkinson's Disease   | Hoi-Chung Leung<br><i>Psychology</i>   |
| <b>197</b>                  | Marqui Gretschel<br>Rachel Mercorella                                     | Parents' Resolution with Regard to Adoption Predicts Parental Sensitivity  | Kristin Bernard<br><i>Psychology</i>   |
| <b>198</b>                  | Jeremy Jabbour  | Bi-visibility: Characteristics of Those Who Attempt to Make Their Bisexual Identity Visible and the Strategies They Use  | Joanne Davila<br><i>Psychology</i>   |
| <b>199</b>                  | Denisse Janvier   | ASD Symptom Severity Moderates the Relationship Between Child Externalizing Behavior and Maternal Stress   | Matthew Lerner<br><i>Psychology</i>  |
| <b>200</b>                  | Caitlyn Kehoe   | Examining Individual and Dyadic Verbal Fluency as Predictors of Perspective Taking, Problem Solving Communication, and Relationship Satisfaction in Dating Couples | Daniel O'Leary<br><i>Psychology</i>  |
| <b>201</b>                  | Seoyoung Kim<br>Paulina Minucci   | Race/Ethnicity and Gender Gaps in Authorship in <i>Health Psychology</i> , 1982-2016   | Marci Lobel<br><i>Psychology</i>   |
| <b>202</b>                  | Jeffrey Kravitz   | Focusing on the Present Could Potentially Help Your Future: The Effects of Mindfulness Meditation on Delay Discounting Rates                                       | Nancy Franklin<br><i>Psychology</i>  |
| <b>203</b>                  | Sarah Kwon  | Neonatal RU-486 Administration Shows Gender Specificity in the Low Progesterone Model of Autism  | Patricia Whitaker-Azmitia<br><i>Psychology</i>   |

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| <b>{204}</b>                | Donovan Laing                       | Visual-Spatial Working Memory Capacity Across Hemispheres/ <i>*a Psi Chi oral presentation, Room 305</i>   | Hoi-Chung Leung<br><i>Psychology</i>               |
| <b>205</b>                  | Jessica Lee                         | Facilitation of Fear Learning by Prior Experience  | Ryan Parsons<br><i>Psychology</i>                  |
| <b>206</b>                  | Katie Lim                           | Secure Base Script Knowledge Moderates the Association Between Adverse Childhood Experiences and Depressive Symptoms                               | Kristin Bernard<br><i>Psychology</i>               |
| <b>207</b>                  | Dorothy McGee                       | Extension Study: The Relationship among Extraversion, Coping Style and Resilience<br><i>*also a Psi Chi oral presentation, Room 305</i>            | Turhan Canli<br><i>Psychology</i>                  |
| <b>208</b>                  | Maxwell Moore<br>Andrew S. Lee      | Effects of Developmental Hyperserotonemia (DHS) on Affiliative and Stereotyped Behavior in Developing Rats   | Patricia Whitaker-Azmitia<br><i>Psychology</i>     |
| <b>209</b>                  | Julia Morris                        | Anger and Fingerprint Analysis   | Nancy Franklin<br><i>Psychology</i>                |
| <b>210</b>                  | Lena O'Brien                        | Disfluency Increases Patience in intertemporal choice  | Phillip Loatman<br><i>Psychology</i>               |
| <b>211</b>                  | Jessica Prashad                     | Error-Related Negativity (ERN) as a Neural Correlate of Anxiety in Early Adolescence<br><i>*also a Psi Chi oral presentation, Room 305</i>         | Greg Hajcak<br><i>Psychology</i>                   |
| <b>212</b>                  | Alessandra Riccio                   | Neural Processing of Infant Emotional Faces Predicts Maternal Sensitivity  | Kristin Bernard<br><i>Psychology</i>               |
| <b>213</b>                  | Mahum Siddiqui<br>Brian Badloo      | Effects of an Attachment-based Intervention on Depression Among High-Risk Mothers  | Kristin Bernard<br><i>Psychology</i>               |
| <b>214</b>                  | Brynne Velia                        | The Implications of the Maternal Hormonal Environment in the Development of Autism Spectrum Disorder   | Patricia Whitaker-Azmitia<br><i>Psychology</i>     |
| <b>215</b>                  | Jacquelyn Walker<br>Laetitia Eugene | The Relationship between Cognitive and Motor Functions in Parkinson's Disease  | Hoi-Chung Leung<br><i>Psychology</i>               |
| <b>216</b>                  | Alexander Walsh                     | Fos Imaging in High and Low Demand Spatial Learning Tasks in Painted Turtles   | Alice Powers<br><i>Psychology</i>                  |
| <b>217</b>                  | Inessa Royt                         | Gender Differences in Mental Health: Illness Diagnosis and Treatment   | Rebekah Burroway<br><i>Sociology</i>               |
| <b>218</b>                  | Michelle Barbosa                    | Enhanced Susceptibility to Microbial Infections in Bivalve Larvae and Juveniles Exposed to Acidified Seawater                                      | Bassem Allam<br><i>SoMAS</i>                       |
| <b>219</b>                  | Nicole Casamassina                  | Analysis of Geographic Vulnerability of Areas Impacted by Hurricanes and Tropical Storms During the 2012 North Atlantic Hurricane Season Using GIS | Sung-Gheel Jang<br><i>SoMAS, Geospatial Center</i> |

| <u>Exhibit/<br/>Poster#</u> | <u>Student Presenter(s)</u>  | <u>Project Title</u>   | <u>Mentor(s)</u>                                      |
|-----------------------------|--|--|---|
| <b>220</b>                  | Mahin Choudhury<br>Amrit Dhillon<br>Serafina Margono<br>Alex Mardon<br>Mateo Mezc<br>Feisal Sahebzada<br>Nawin Sahebzada<br>Roman Sahebzada<br>Tayeb Sahebzada<br>Rajwinder Singh<br>Agatha Sleboda<br>Akhil Saini<br>Shabir Zahir | Can Roundup Ready Soybeans Translocate Enough Glyphosate into the Soil to Harm Non-Target Organism?            | Sharon Pochron<br><i>SoMAS Sustainability Studies</i> |
| <b>221</b>                  | Mahin Choudhury<br>Amrit Dhillon<br>Brett Keeler<br>Serafina Margono<br>Mateo Mezc<br>Clayton Salamon<br>Rajwinder Singh<br>Agatha Sleboda   | The Effect of a Plant-Translocated Herbicide on Earthworm Health   | Sharon Pochron<br><i>SoMAS Sustainability Studies</i> |
| <b>222</b>                  | Mahin Choudhury<br>Rhiannon Gomez<br>Sojjad Hussaini<br>Kyra Illuzzi<br>Michael Mann<br>Mateo Mezc<br>Jaqueline Nikakis<br>Clara Tucker  | Factors Affecting Earthworm Sensitivity to a Popular Glyphosate-Based Herbicide                                | Sharon Pochron<br><i>SoMAS Sustainability Studies</i> |
| <b>223</b>                  | Mahin Choudhury<br>Amrit Dhillon<br>Mateo Mezc<br>Nawin Sahebzada<br>Akhil Saini<br>Rajwinder Singh<br>Agatha Sleboda<br>Clara Tucker  | The Short-Term Effect of Fertilizer and Roundup on Earthworm Body Weight, Fragility, and Neurological Function | Sharon Pochron<br><i>SoMAS Sustainability Studies</i> |
| <b>224</b>                  | Andrew Clay<br>Rebecca Glayzer<br>Harrison Watters   | Human and Animal Traffic through Ashley Schiff Park Preserve on Stony Brook University Campus                  | Sharon Pochron<br><i>SoMAS Sustainability Studies</i> |

| <u>Exhibit/<br/>Poster#</u> | <u>Student Presenter(s)</u>  | <u>Project Title</u>   | <u>Mentor(s)</u>  |
|-----------------------------|--|--|---|
| <b>225</b>                  | Sarah Habashy<br>Sajjad Hussaini<br>Kyra Illuzzi<br>Jennifer Maldonado<br>Michael Mann<br>Alex Mardon<br>Michael Moawad<br>Marina Nasr<br>Jackie Nikakis<br>Justin Roseman<br>Akhil Saini<br>Daniella Sallangos<br>Mobina Talukder<br>Katherine Tsui | Sublethal Effects of a Popular Herbicide (Roundup) on Earthworms ( <i>Eisenia fetida</i> )   | Sharon Pochron<br><i>SoMAS Sustainability Studies</i>             |
| <b>226</b>                  | Emily Kollmer  | The Relationship of Sediment Carbonate Content to Mollusk Communities in Seagrass Beds of Bocas del Toro, Panama                   | Bradley Peterson<br><i>SoMAS</i>                                  |
| <b>227</b>                  | Sarah Nickford   | Mechanisms Controlling Surface Temperature and Chlorophyll Distribution in the Labrador Sea  | Kamazima Lwiza<br><i>SoMAS</i>                                    |
| <b>228</b>                  | Clara Tucker<br>Charles Patterson<br>Nick Panico   | The Response of Earthworms ( <i>Eisenia fetida</i> ) and Soil Microbes to the Crumb Rubber Material Used in Artificial Turf Fields | Sharon Pochron<br><i>SoMAS</i>                                    |
| <b>229</b>                  | Elizabeth Brenner  | Non-linear Story Telling   | Phillip Baldwin<br><i>Theatre Arts</i>                            |
| <b>230</b>                  | Joshua Bravo   | Trans Activist Futures   | Melissa Forbis<br><i>Women's, Gender, &amp; Sexuality Studies</i> |
| <b>231</b>                  | Carinna Emilio   | A Study of Maternal Mortality Rates and Fear Surrounding Childbirth in the United States' HealthCare System                        | Nancy Hiemstra<br><i>Women's, Gender, &amp; Sexuality Studies</i> |
| <b>232</b>                  | Jillian Ferretti   | Bodies and Minds on Display: Examining the Connection Between Dress Codes and Student Activism in the United States                | Liz Montegary<br><i>Women's, Gender, &amp; Sexuality Studies</i>  |
| <b>233</b>                  | Jenna Kalvig   | Environmental Exposure and Pregnancy   | Melissa Forbis<br><i>Women's, Gender, &amp; Sexuality Studies</i> |
| <b>234</b>                  | Alyssa Meano   | Trans Adult Life: Marriage, Divorce, Children and the Law  | Melissa Forbis<br><i>Women's, Gender, &amp; Sexuality Studies</i> |
| <b>235</b>                  | Arani Nirmalan   | "White People are Like": Whiteness Now through Satire in Media and Memes   | Liz Montegary<br><i>Women's, Gender, &amp; Sexuality Studies</i>  |

| <u>Exhibit/<br/>Poster#</u> | <u>Student Presenter(s)</u>   | <u>Project Title</u>   | <u>Mentor(s)</u>   |
|-----------------------------|-------------------------------|--|--|
| <b>236</b>                  | Joseph Seck                   | Educational “Out”lets: Queer Youth Experiences In an Alternative School Environment                                  | Liz Montegary<br><i>Women’s, Gender, and Sexuality Studies</i>         |
| <b>237</b>                  | Kalie Smith                   | A Painting Called Vanity: How the Critique of Selfies Relates to the State of Feminism Today                         | Liz Montegary<br><i>Women’s, Gender, &amp; Sexuality Studies</i>       |
| <b>238</b>                  | Justin Lerner                 | A Stream of Revival: Music Streaming as a Solution to Music Piracy and its Effects on the Musicians and the Industry | Robert Kaplan<br><i>Writing &amp; Rhetoric Program, English</i>        |
| <b>239</b>                  | Amber Li                      | Yellow Fever: Improving Disease Prevention   | Shyam Sharma<br><i>Writing &amp; Rhetoric Program</i>                  |
| <b>240</b>                  | SB Young Investigators Review | Young Investigators Review   | <i>Interdisciplinary – involving mentors from multiple departments</i> |

\*\*\*The Celebration provides an informal venue for student researchers to present work in progress. Data presented may be preliminary and presentations do not constitute scientific publications. Data and findings presented at the symposium or included in the abstracts may not be distributed, reported or referenced elsewhere without the written permission of the corresponding (faculty) author.

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ENGLISH DEPARTMENT CONFERENCE  
Student Activities Center, Room 303

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Student Presentations (1:00-2:20)

SESSION I PRESENTATIONS:

**A Rhetorical Analysis of the Effects of Authoritarianism: *Stabroek News***

Sydney Bryan; Advisors: Nicole Galante, *Department of English*

**Wonderful Wizard of Oz**

Noel Reich; Advisor: Robert Kaplan, *Program in Writing & Rhetoric*

**Female Gender Stereotype Depictions in Brony Artwork**

Natalia Dutra Rodefeld; Advisor: Peter Manning, *Department of English*

**But First, Let's Take a Selfie: An Analysis of Selfie-Culture**

Sabahat Safaraz; Michael Rubenstein, *Department of English*

**The Sacrificial King: On Consent and Ritual in Mary Renault's *The King Must Die* and *The Bull from the Sea***

Cassandra Scanlon; Advisor: Robert Kaplan, *Program in Writing & Rhetoric*

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SESSION II PRESENTATIONS (*scheduled for May 3, 1:00-2:20 pm, Poetry Center*):

**Femininity and Gender Expression in *Steven Universe*: Rewriting Harmful Stereotypes in American Fiction Media**

Angela Broderick; Advisor: Celia Marshik, *Department of English*

**Contraception and Corporations in Margaret Atwood's *Oryx and Crake***

Laura Gualtieri; Advisors: Justin Johnston, *Department of English*

**Artistic Fervor in Puritan New England: The Freake-Gibbs Painter and Seventeenth-Century Portraiture**

Bella Gurevich; Advisors: Michele Bogart, *Department of Art*; Andrew Newman, *Department of English*

**Race and the Human Apocalypse: Posthumanism in Melville's *Benito Cereno***

Kristofer Barr; Advisor: Susan Scheckel, *Department of English*

**Essentialism in Post-9/11 South Asian American Rap**

Shayan Afridi; Advisor: Jeffrey Santa Ana, *Department of English*

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**HISTORY DEPARTMENT CONFERENCE**  
*Student Activities Center, Room 304*

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Student Presentations (10:00-3:00)

**Welcome.** Joel Rosenthal, *Department of History*

10:15-10:30

**An Analysis of *Lone Wolf v. Hitchcock*, 187 U.S. 553 (1903)**

Samuel Fey; Advisor: Susan Hinely, *Department of History*

10:30-10:45

**A Class Apart: A White Monopoly**

Brian Vasquez; Advisors: Susan Hinely and Lori Flores, *Department of History*

10:45-11:00

**The Truth of the Matter- Correcting Fictions Surrounding Undocumented Migrants**

Thomas Leddy; Advisor: Lori Flores, *Department of History*

11:00-11:15

**Beef, Labor, & the Industrialization of Diet**

Timothy Cary; Advisor: Paul Gootenberg, *Department of History*

11:15-11:30

**What Do We Do with This Guy? The Deposition of Edward II**

Matthew Woods; Advisor: Sara Lipton, *Department of History*

11:30-11:45

**The Life of a Leper: Then and Now**

Stephanie Ramirez; Advisors: Nancy Tomes and Sara Lipton, *Department of History*

11:45-12:00

**Hollywood's Depiction of Latinos during the Good Neighbor Policy**

Laura Horvath-Roa; Advisors: Nancy Tomes and Eric Zolov, *Department of History*

12:00-12:15

**The Power of Words: The Effects of Advertising on the RMS Titanic**

Nicole Grube; Advisor: Nancy Tomes, *Department of History*

12:15-12:30

**The First Casualty of War: How the Media and Government Failed during the Vietnam and the Second Gulf Wars**

Stephen Megos; Advisor: Nancy Tomes, *Department of History*

LUNCH BREAK

1:30-1:45

**The Bracero Life: Public Perception vs. Self-Perception**

Hugo Alonso; Advisor: Lori Flores, *Department of History*

1:45-2:00

**Christianity's Gifts to Islam**

Simon Popkin; Advisor: Shobana Shankar, *Department of History*



2:00-2:15

**Garvey, Rastafarianism, and the God King**

Kyle Johnson; Advisor: Shobana Shankar, *Department of History*

2:15-2:30

**White Gold in the Black Market: China, Africa and the Ivory Trade**

Matthew Galke; Advisor: Shobana Shankar, *Department of History*

2:30-2:45

**Power to the People: The Black Panther Party, Education, and Revolution**

Khondker Hossain; Advisor: Shobana Shankar, *Department of History*

**Closing Remarks & Presentation of Certificates**

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**PSYCHOLOGY / PSI CHI CONFERENCE**  
*Student Activities Center, Room 305*

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Student Presentations (11:00 – 12:30)

**Welcome**, Psi Chi Coordinator

11:00-11:15

**Extension Study: The Relationship among Extraversion, Coping Style and Resilience**

Dorothy McGee; Advisor: Turhan Canli, *Department of Psychology*

11:15-11:30

**Evaluation of Functional Localizers in the Face Processing Network: an ALE Meta-Analysis of fMRI Studies**

Yi Gao; Advisor: Hoi-Cheung Leung, *Department of Psychology*

11:30 am-11:45

**Effects of Working Memory Load, Binding of Spatial and Identity Information on Visual Working Memory Performance**

Daniel Tysz; Advisor: Hoi-Chung Leung, *Department of Psychology*

11:45 am-12:00

**Self-reported Social Skills Importance Ratings, not Social Skills Themselves, Predict Sociometric Status in Youth with Autism Spectrum Disorder**

Lee Santore; Advisor: Matthew Lerner, *Department of Psychology*

12:00-12:15

**Error-Related Negativity (ERN) as a Neural Correlate of Anxiety in Early Adolescence**

Jessica Prashad; Advisor: Greg Hajcak, *Department of Psychology*

12:15-12:30

**Visual-Spatial Working Memory Capacity across Hemispheres**

Donovan Laing; Advisor: Hoi-Chung Leung, *Department of Psychology*

\*POSTER PRESENTATIONS, **See Posters/Exhibits #192-216** in SAC Ballroom A

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**WRITING & RHETORIC PROGRAM CONFERENCE**

*Student Activities Center, Room 302*

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Student Presentations (11:45-3:30)

**Welcome.**

*12:00-12:15*

**The Personal Essay as a Self-Exploratory Exercise**

Katherine Hoyt; Advisor: Rita Nezami, *Program in Writing and Rhetoric*

*12:15-12:30*

**International Surrogacy: Causes, Consequences, and Problems**

Chuqing Xia; Advisor: Shyam Sharma, *Program in Writing and Rhetoric*

*12:30-12:45*

**"I'm Not a Feminist": Reclaiming the Causes by Refining the Word**

Yingyin Ren; Shyam Sharma, *Program in Writing and Rhetoric*

*12:45-1:00*

**Integrating Asynchronous Online Tutoring at Stony Brook University's Writing Center**

Avery Williams; Advisor: Jennifer Albanese, *Program in Writing and Rhetoric*

*1:00-1:15*

**Lost in Translation: Transferring Traditional Peer-Tutoring Practices for Non-native English-speaking Students to the Online Setting**

Holly Jones; Advisor: Jennifer Albanese, *Program in Writing and Rhetoric*

*1:15-1:30*

**Optimal Technologies and Training for Online Writing Labs**

Raymond Choi; Advisor: Jennifer Albanese, *Program in Writing and Rhetoric*

*1:30-1:45*

**Ethics in Media**

Lynne Richardson; Advisor: Shyam Sharma, *Program in Writing and Rhetoric*

*1:45-2:00*

***La Danse et Les Dames du Ballet*: Edgar Degas and the Representation of Movement through the Belle Époque Ballerina**

Alexandra Zigomalas; Advisor: Kevin Clouther, *Program in Writing and Rhetoric*

~BREAK~

*2:15-2:30*

**Islamic Fundamentalism is not Islam**

Afshana Hoque; Advisor: Shyam Sharma, *Program in Writing and Rhetoric*

*2:30-2:45*

**Shifting the Current Burden of Dietary Supplement Regulation**

Yasmeen Hamami; Advisor: Robert Kaplan, *Program in Writing and Rhetoric*

*2:45-3:00*

**The Role of Social Support in Mediating Addiction**

Erica Berman; Advisor: Robert Kaplan, *Program in Writing and Rhetoric*

*3:00-3:15*

**Geopolitical Implications of the Shale Revolution**

John Kip Daly; Advisor: Robert Kaplan, *Program in Writing and Rhetoric*

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**ENGINEERING SENIOR DESIGN PRESENTATIONS**  
*Student Activities Center, SAC Auditorium*

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Student Presentations (9:00-11:00)

**Welcome.**

*MECHANICAL ENGINEERING (9:00-9:15)*

**Stony Brook Motorsports: 2017 Baja SAE Off-Road Vehicle**

Matt Kesich, Aravinda Bhatt, Neil Dusling, Ian Greenberg, Spencer Locks

Faculty Advisor: Noah Machtay, *Department of Mechanical Engineering*

*ENGINEERING SCIENCE (9:15-9:30)*

**H<sub>2</sub>Woah: Water Consumption Monitoring Device**

Narmin Hasanat, Zachary Licht, Howard Siegfried, Andrew Sullivan, Antonio Xu Liu

Faculty Advisor: Balaji Raghothamachar, *Department of Materials Science & Chemical Engineering*

*BIOMEDICAL ENGINEERING (9:30-9:45)*

**A rehabilitation video game for muscle therapy.**

Jason Abraham, Miteshkumar Ahir, Milan Gunasekera, John Mele, Kali Woods

Faculty Advisor: Mei Lin Chan, *Department of Biomedical Engineering*

*CIVIL ENGINEERING (9:45-10:00 am)*

**Micro- Concrete Roofing Tiles in Turkana, Kenya**

Andrew Brems, Tamara Goodwin, Thomas Kennedy, Andrew Mock

Faculty Advisors: Ryan Giles and Harold Walker, *Department of Civil Engineering*

*CHEMICAL & MOLECULAR ENGINEERING (10:00-10:15)*

**Analysis of Carbon Sequestration Schemes for Plant Design**

Mike McCutcheon, Shweta Iyer, Asim Rattu

Faculty Advisor: Devinder Mahajan, *Department of Materials Science & Chemical Engineering*

*ELECTRICAL & COMPUTER ENGINEERING (10:15-10:30)*

**Venus Light Trap**

Christine Kong and Kyle Hughes

Faculty Advisor: David Westerfeld, *Department of Electrical & Computer Engineering*

**Mosquito/Bug Zapper**

Frank Yee, Ricky Zhang, Thomas Suarez

Faculty Advisor: David Westerfeld, *Department of Electrical & Computer Engineering*