

Office of Undergraduate Research

**UNDERGRADUATE RESEARCH SYMPOSIUM
2015**



U THE UNIVERSITY OF UTAH®

TUESDAY MARCH 31, 2015 OLPIN UNION
9:00 a.m. – 3:00 p.m.

SCHEDULE OF PRESENTATIONS

UNDERGRADUATE RESEARCH SYMPOSIUM

2015

**TUESDAY, MARCH 31, 2015
OLPIN UNION BUILDING
UNIVERSITY OF UTAH
9:00am-3:00pm**

We are grateful for the generous support of:
The Office of Undergraduate Research
The Office of Undergraduate Studies
and
The Honors College

We would also like to acknowledge the Office of the President, the Office of the Senior Vice President for Academic Affairs, and the Office of the Vice President for Research.

Finally, we would like to extend our utmost pride and congratulations to the students, graduate students, and faculty sponsors without whose efforts and dedication this event would not be possible.

THANK YOU DONORS

The Office of Undergraduate Research is grateful for generous support from:

Francis Family Foundation

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University of Utah
Undergraduate Research Symposium 2015
Tuesday, March 31, 2015 – Olpin Union Building
9:00am-3:00pm
Program Schedule

(NOTE: ALL STUDENT PRESENTERS MUST CHECK-IN.)

Snacks available at 10:30 am and 2:30 pm in the Main Ballroom

SESSION I (9:00 – 10:30 am)

8:30am – Check-in Union Lobby

8:45am – 9:00am - Poster set-up, Main Ballroom

9:00am – 10:30am - Poster Session I, Main Ballroom

9:00am – 10:30am - Morning Oral Sessions and Creative Writing Session
(Collegiate Room, Parlor A, Parlor B, Room 312, Panorama East, and West Ballroom)

SESSION II (10:30 – 12:00 pm)

10:00am – Check-in, Union Lobby

10:20am – 10:30am Poster set-up Session II, Main Ballroom

10:30 am – 12:00 pm – Poster Session II, Main Ballroom

10:30 – 11:50 - Oral Sessions and Creative Writing Sessions
(Union Den, Collegiate Room, Parlor A, Panorama East, and West Ballroom)

SESSION III (1:30 – 3:00 pm)

1:00pm – Check-in, Union Lobby

1:20pm – 1:30pm - Poster set-up, Main Ballroom

1:30pm – 3:00pm - Poster Session II, Main Ballroom, East Ballroom

1:30pm – 3:00pm - Afternoon Oral Sessions
(Union Den, Collegiate Room, Parlor A, Parlor B, Room 319, Room 312, Room 323,
Panorama East, and West Ballroom)

UNDERGRADUATE RESEARCH SYMPOSIUM 2015
SCHEDULE OF PRESENTATIONS

ORAL SESSION I

9:00 – 10:20 a.m.

COLLEGIATE ROOM

Moderator: Erica Rojas, **Honors College**

9:00 Shuang Li (Mia Hashibe)

Department of Family & Preventive Medicine

Oral Lesions, Chronic Diseases and the Risk of Head and Neck Cancer

9:20 Elena Nazorenko (Nathan Seegert)

Department of Finance

The Effects of the Transition of the Social Security Structure in Russia

9:40 Marie Tuft (Sean Lawley)

Department of Mathematics

Quantitative Analysis of Virus Trafficking in a Biological Cell

10:00 Drew Ellingson (Aaron Bertram)

Department of Mathematics

Tropicalization of Theta Characteristics for Plane Quartics

PARLOR A

Moderator: Jon Groot, **Department of Exercise & Sport Science**

9:00 Erin Gamertsfelder (Cagan H. Sekercioglu)

Department of Biology

A Preliminary Camera Trap Survey for Large Mammals in Red Butte Canyon Research Natural Area, Utah

9:20 Derek Munday (J. David Symons)

Department of Exercise & Sport Science

Protein Phosphatase 2A Inhibition Preserves Arterial Function in Obese Mice

9:40 Hyungtek Kim (Naveen Nagarajan)

Department of Human Genetics

Effect Of Sensory Deprivation on HOXB8 Derived Microglia in the Brain

PARLOR B

Moderator: Shannon Jones, **Department of Nutrition**

9:00 Catherine Lindsay McSweeney (Shannon Jones)

Department of Nutrition

Social Influences of Obesity in Women

Oral Session I - PARLOR B Continued

9:20 Martin Puga Jr. (Rebecca Utz)

Department of Sociology

Academic Achievement Differences Between Ethnic and Racial Groups: Understanding Mechanisms Behind the Disparity

9:40 Samantha Falde (Marjorie Castle)

Department of Political Science

Kalashnikov Enculturation: The Soviet Contribution to Small Arms Proliferation and the Disintegration of the Non-State Threshold

10:00 Bryn McWhorter (Carrie Humphries)

Department of Political Science

A Nuclear Iran: The Economic, Political, and Social Impetus Behind Negotiations

ROOM 312

Moderator: Catherine Mayes, **Department of Music**

9:00 Alexandria Sadler (Claudio Holzner)

Department of Political Science

"Podemos Cambiar el Mundo:" Frame Alignment Processes in the Chilean University Student Movement

9:20 Sloan Russell (Ian Skurnik)

Department of Marketing

University Partnerships and Their Importance for Brand Perception

9:40 Stephanie Tello and Shirley Luo (S. Andy Rivera)

Student in the College of Nursing

Investigation of Transgender Medical and Surgical Therapies

10:00 Lindsay Tarbet (Catherine Mayes)

Department of Music

A View of Extramusical Associations

PANORMA EAST

Moderator: José Galarza, **Department of Architecture**

9:00 Erika Longino (Jose Galarza)

Department of Architecture

Beyond Hogans: A Sustainable Framework Plan for Design Build BLUFF

9:20 Katherine Nix (Stephen Goldsmith)

Department of City & Metropolitan Planning

Design for Health

Oral Session I – PANORMA EAST Continued

9:40 Jessie Du Pre (Lisa Diamond)

Department of Psychology

Gender Differences in Recollected Sexuality Across the Lifespan

CREATIVE WRITING SESSION I

9:00 – 10:40

BALLROOM WEST

Moderator: Michael Gills, **Honors College**

9:00 Anna Drysdale (Michael Gills)

Honors College

Mette: A Novel and the Language as Identity

9:20 Trevor Stott (Michael Gills)

Honors College

"The Wanderers" Novel Project

9:40 Diona Giannopolous (Michael Gills)

Honors College

Let Be

10:00 Jackson Myrick (Michael Gills)

Honors College

Construction of Time, Place, and Methodology in Novel Writing

10:20 Brandon Bertlesen (Michael Gills)

Honors College

Burning Down the Valley

ORAL SESSION II

10:30 - 11:50 p.m.

UNION DEN

Moderator: Adrian Bell, **Department of Anthropology**

10:30 Megan Mullineaux (Kristen Hawkes)

Department of Anthropology

Our Primate Roots and Sex Differences in Communication

10:50 Sarah Ward (Ed Gappmaier)

Department of Physical Medicine & Rehabilitation

Correlations of Pyramidal and Extrapyramidal (Brainstem & Cerebellar) NeuroStatus Functional System Scores with Mobility Performance in Multiple Sclerosis

11:10 Nicholas Redmond (Winthrop L. Adams)

Department of History

The Indian Elephant: Cultural and Military Significance

11:30 Maryam Ebrahimi (Adrian Bell)

Department of Anthropology

Exploring the Health-Related Behavior: Hand Washing Compliance Among Nurses In Two Different Health Care Settings: Orthopedic Surgical Unit (OSU) at University of Utah Hospital and the Cancer and Blood Units (CBU) at Primary Children's Hospital

COLLEGIATE ROOM

Moderator: Aaron Reynolds, **Honors College**

10:30 Nathan Briggs (Andrej Cherkaev)

Department of Mathematics

A Look at the Numerical Results of the Optimal Design of Multiphase Elastic Structures

10:50 Matthew Mortensen (Daniel Levin)

Department of Political Science

Do Caps on Non-Economic Damages Decrease Medical Malpractice Insurance Premiums?

11:10 Tara Streng (Akiko Kamimura)

Department of Sociology

Prevention and Reporting on College Campuses in the US: A Review of Policies and Recommendations

11:30 Kortnie Walker (Balamurali Ambati)

Department of Ophthalmology

Understanding and Treating Diabetic Retinopathy

PARLOR A

Moderator: Sterling Van Wagenen, **Department of Film & Media Arts**

10:30 Arthur Veenema (Sterling Van Wagenen)

Department of Film & Media Arts

The Original

10:50 Jackson Hannon (Steven Lobell)

Department of Political Science

US Doctrine and Counterinsurgency Since 2001

11:10 Aliya Khan (Leslie Francis)

Departments of Philosophy and Law

Contemporary and Traditional Islamic Ethical Theory on the Practice of Assisted Reproduction

Oral Session II PARLOR A Continued

11:30 Candelaria Atalaya (Jeff Metcalf)

Department of English

Under the Cloak of Penumbra

PANORAMA EAST

Moderator: Jenny Andrus, **Department of Writing and Rhetoric Studies**

10:30 Barbara Ochoa (Jenny Andrus)

Department of Writing and Rhetoric Studies

Write Into the Margins: Understanding Retention and Attrition Rates in College-Level Writing Courses

10:50 Emma Goldgar (A. J. Metz)

Department of Educational Psychology

Promoting Healthy Body Image in Children- A Preventative Resource for Educators

11:10 Anna Drysdale (Anne Lair)

Department of Languages & Literature

Teaching Culture in Language Classes: Make it fun and useful

CREATIVE WRITING SESSION II

10:30 – 11:50 a.m.

BALLROOM WEST

Moderator: Michael Gills, **Honors College**

10:30 Sarah Farley (Disa Gambera)

Department of English

Nexus

10:50 Suzy Sammann (Michael Gills)

Honors College

Dandelions Among the Wheat: A Novel by Suzy Sammann

11:10 Natalie Spendlove (Michael Gills)

Honors College

Dawn Chorus

11:30 Kajsa Vlasic (Michael Gills)

Honors College

Storytelling and the Patient Experience: Narratives of Breast Cancer Survivors

ORAL SESSION III

1:30 – 2:50 p.m.

UNION DEN

Moderator: Jennifer Ziarko, **Honors College**

1:30 Airyana Markham (Isabel Moreira)

Department of History

Dressing the Part: Early Christian Identity North Africa, 100-200 CE

1:50 Nicolas Tang (Maximilian S. Werner)

Department of Writing and Rhetoric Studies

A Personal Memoir

2:10 Sara Palomino (Ferdinand Rubio)

Department of Languages & Literature

Diglossia: The Case of Quechua Languages and Spanish

2:30 Madeline Bannon (Matthew Haber)

Department of Philosophy

The case for the Children with 'Three Parents'

COLLEGIATE ROOM

Moderator: Holly Pokorny, **Honors College**

1:30 Claire Heman (Disa Gambera)

Department of English

Intersections

1:50 Zackary Brown (Craig Dworkin)

Department of English

Conceptual Rewriting Practices in the Twenty-First Century

2:10 Brenna Asplund (Scott Black)

Department of English

In Border Country: The Nature of Magic and Reality in Terry Pratchett's Discworld Series

PARLOR A

Moderator: Brittany Coats, **Department of Engineering**

1:30 McKenna Drysdale (Brittany Coats)

Department of Mechanical Engineering

Material Property Testing of Hydrogels

Oral Session III – PARLOR A Continued

1:50 Boston Terry (Brittany Coats)

Department of Engineering

DTI Voxel-Wise Analysis of Porcine Mild TBI

2:10 Michael Cline (Thomas C. Henderson)

Department of Computing

Robotics Engineering & Computer Science

2:30 Eric Snyder (Joel B. Harley)

Department of Electrical & Computer Engineering

Structural Health Monitoring Using Guided-Wave Ultrasonics

PARLOR B

Moderator: Elizabeth Tashjian, **Department of Finance**

1:30 Dana Romero (Glen Schmidt)

Department of Operations & Information Systems

The Facilitation of Process Improvement Projects at the University of Utah Hospitals and Clinics in period 2011-2014

1:50 Chris Rondem (Minqi Li)

Department of Economics

Rising above Collective Action Problems through Political Party Structure in China: An Introduction to Quasi-Neoliberal Political Economy

2:10 Zhao Jin (Elizabeth Tashjian)

Department of Finance

How Is The Company's Stock Risk Associated With Its Demand Elasticity?

2:30 Rosalie Waller (Nicola J. Camp)

Department of Internal Medicine

Exome Sequencing in 77 Multiple Myeloma Cases Uncovers Potential Germline Risk-Variants

ROOM 312

Moderator: Franz Goller, **Department of Biology**

1:30 Jasmine Bishop (Shanti Deemyad)

Department of Physics & Astronomy

Re-emergent Superconductivity of KFeSe under pressure

(authors: Jasmine Bishop, Anne Marie Schaeffer, Florence Doval, Shanti Deemyad)

1:50 Jason Chen (Franz Goller)

Department of Biology

Dissecting the Genetic and Learned Components of Oscine Birdsong

Oral Session III – ROOM 312 Continued

2:10 Alexandra Kent (Jennifer Heemstra)

Department of Chemistry

Small Molecule Detection Using Split Aptamer Ligation

2:30 Judy Zhu (Cynthia Burrows)

Department of Chemistry

Analysis of the Equilibrium Between Guanine Oxidation Products 5-Guanidinohydantoin and Iminoallantoin

ROOM 319

Moderator: Polly Wiessner, **Department of Anthropology**

1:30 Natalie Spendlove (Leslie Knapp)

Department of Anthropology

Mitochondrial Genetic Variation among Howler Monkeys

1:50 Alexandra Butler (Polly Weissner)

Department of Anthropology

Is Utah's Sex Education Controversy Relevant Today?

2:10 Kimberly Quirarte (Alex Doing)

College of Nursing

Evaluation of a Web-Based Virtual Preceptorship for Moderate Sedation Training

2:30 John Simpson (Sheikh Safiullah)

Department of History

The Negative Aspect of Celestial Phenomena Is Consistent with the Mandaean Gnostic Worldview

ROOM 323

Moderator: Stephen Goldsmith, **Department of City & Metropolitan Planning**

1:30 Enoch Smith (Claudia Geist)

Department of Sociology

Sisterwives and Submission?: Gender Power Dynamics in Polygynist Marriages

1:50 Taylor Webb (Heather Melton)

Department of Sociology

Effects of Bullying and Gender on Suicide

2:10 Fattima Ahmed (Akiko Kamimura)

Department of Sociology

Health Experiences and Perceptions among Free Clinic Patients

2:30 Alexander Sanchez (Richard Medina)

Department of Geography

Reexamining Global Drug Eradication Policies: A Systemic Analysis of their Ecological and Societal Effects in Mexico, Colombia, and Afghanistan

PANORMA EAST

Moderator: Masha Sukovic, **Department of Communication**

1:30 Kevin McFarland (Masha Sukovic)

Department of Communication

Private Umbilical Cord Blood Banks and how they Utilize Rhetoric

Oral Session III – PANORAMA EAST Continued

1:50 Erin Olschewski (Masha Sukovic)

Department of Communication

C is for Carrots, Community Gardens, and Co-ops: A Thematic Analysis of the Ways in which Sesame Street Approaches Nutrition, Sustainability, and Social Justice

2:10 Christian Reihle (Peter von Sivers)

Department of History

Secession of the Arab Polity During the 7th Century

2:30 Kelly O'Neill (Edward Bateman)

Department of Art & Art History

Bifurcate: Intersections and Photography

PERFORMING/VISUAL ARTS SESSION III

1:30 – 2:50 p.m.

BALLROOM WEST

Moderator: Sydney Cheek O'Donnell, **Department of Theater**

1:30 Danielle Endow (Kevin Hanson)

Department of Film & Media Arts

Representation of Female Protagonists in Film

1:50 Natham Witham (Mike Cottle)

Department of Music

Generative Music

2:10 Sam Katz (Mike Cottle)

Department of Music

Tom Stockham: The Father of Digital Audio Recording

2:30 Michael T. Brown (Sydney Cheek-O'Donnell)

Department of Theater

Wild, Wild Love: Developing New Work for the Stage

POSTER SESSION I

9:00 – 10:30 a.m.

MAIN BALLROOM

Poster 1: Christopher Reay (Kai Kuck)

Department of Anesthesiology

Evaluation of Elastomeric Pumps for Regional Pain Control

Poster 2: Meg Baker (Jack Broughton)

Department of Anthropology

*A 10,000 year El Niño-Pocket Gopher (*Thomomys bottae*) Response Record from Northern Baja California, Mexico*

Poster 3: Madeleine Clark (Polly Weissner)

Department of Anthropology

Changing Diet Among the Congolese Refugee Population: Implications for Health and Social Integration

Poster 4: Anna Hardesty and Arianna Lokeni (Karen Kramer)

Department of Anthropology

Mothers, Milk, and Money: Sex Differences in Maternal Investment and Growth Outcomes Among Maya Children

Poster 5: Austin Henderson (Polly Weissner)

Department of Anthropology

Gender Differences in Food Choice

Poster 6: Benjamin Fasoli (John Lin)

Department of Atmospheric Sciences

TRAX Based Trace Gas and Aerosol Measurement

Poster 8: Zachary Ferrell (Kristofer Sinclair)

Department of Bioengineering

In Vivo Analysis of an Antibiotic-Eluting, Resorbable, Bone Void Filler, a Large Animal Pilot Study

Poster 9: Sean Finley (Jeffrey Weiss)

Department of Bioengineering

Finite Element Modeling of the Hip Joint in Dysplastic Subjects

Poster 10: Taylor Fowers (Benjamin Ellis)

Department of Bioengineering

FEM of the Cervical Spine for Biomechanical Soft Tissue Analysis

Poster 11: Matthew Holbrook (Allison Payne)

Department of Bioengineering

Thermal Sensitivity to High Intensity Focused Ultrasound in Vascular Phantoms

Poster 12: Mark Khoury (Robert Hitchcock)

Department of Bioengineering

Muscle Activity Changes Due to Immobilization and Partial Weight Bearing of the Lower Leg

Poster 13: Max Taggart (Rob MacLeod)

Department of Bioengineering

Using LG-MRI Analysis to Assess Atrio-Esophageal Fistula Risk Following Cardiac Ablation

Poster 14: Blair Gerratt (Bruce Gale)

Department of Mechanical Engineering

Microfluidic Cell Printing to Create Cellular Arrays for Cell-Based Assay

Poster 15: Alyssa Black (Nitin Phadnis)

Department of Biology

*Identifying Hybrid Incompatibility Genes in *D. pseudoobscura**

Poster 16: Alexander Cao (Martin P. Horvath)

Department of Biology

Refolding of Protein Domains Derived from the NMDA Receptor

Poster 17: Christine Henry (Kelly Hughes)

Department of Biology

*The Study of the Interaction of FliG and H-NS in *Salmonella Typhimurium**

Poster 18: Alex Hyer (William Brazelton)

Department of Biology

ATP Production in Serpentinization-Driven Ecosystems

Poster 19: Claire Lu (Erik Jorgensen)

Department of Biology

Developing Methods for in vivo Super Resolution Microscopy

Poster 20: Johanna Estrada (Thomas O'Hare)

Department of Internal Medicine

BCR-ABL1 Compound Mutations Combining Key Kinase Domain Positions Confer Clinical Resistance to Ponatinib in Philadelphia Chromosome-Positive Leukemia

Poster 21: John Gilbert (Dimitri Trankner)

Department of Human Genetics

Quantitative Neuronal Activity Measurement at Single-Cell Resolution Across the Entire Brain

Poster 22: Christian Hicken (Sarah Franklin)

Department of Biochemistry and Cardiovascular Research and Training Institute

Post Translational Modifications in Histones

Poster 23: Mason Burger (Leonard Pease)

Department of Chemical Engineering

Permeability of Esophageal Tissue

Poster 24: Anastasia Borodai (Cynthia Burrows)

Department of Chemistry

The effects of various metal ions on the folding of G-Quadruplexes

Poster 25: Quan Le (Otakuye Conroy-Ben)

Department of Civil & Environmental Engineering

Bioremediation of Endocrine Disruptors from Waste and Surface Waters

Poster 26: Jorge Barraza (David Derezotes)

Peace and Conflict Studies

Deepening the Learning Experience Through Dialogue and Reflection

Poster 27: Everett Barnes (Frank B. Sachse)

Department of Bioengineering

Remodeling of Gap Junctions Three Weeks After Infarction in Infarct Border Zone

Poster 28: Alysa Edwards (Sujee Jeyapalina)

Department of Bioengineering

Understanding the Periprosthetic Microenvironment Surrounding Percutaneous Devices: Use of Simple Immunohistochemical Techniques to Predict Healing Outcomes

Poster 29: Garvin Tran (Jeff Weiss)

Department of Bioengineering

Biglycan and Decorin Regulate Collagen fibrillogenesis Resulting in Increased Tensile Strength and an Interconnected Network

Poster 30: Jordan Walker (Ken Monson)

Department of Mechanical Engineering

Impact of Cerebral Vasculature Branch Points in Primary Blast

Poster 31: Alec Clayton (Kurt Albertine)

Department of Pediatrics

Brain Vascular Growth Factor Protein Abundance is Differentially Affected by Ventilation Mode in Preterm Lambs

Poster 32: Ethan Beseris (Lee Dibble)

Department of Physical Medicine & Rehabilitation

Error Analysis of Video Head Impulse Testing System

Poster 33: Kara Henrie (Cecilia Wainryb)

Department of Psychology

Children's and Adolescents' Moral Development and Self-Event Connections in Accounts of Harm

Poster 34: Hayden Bush (Chris Stratford)

Department of Surgery

CARES (Cardiac Arrest Registry to Enhance Survival)

Poster 35: Sam Judd (Rajesh Menon)

Department of Electrical & Computer Engineering

Micro Patterning and Electroforming of Discrete Micro-Optic Devices

Poster 36: Sami Safiullah (Thomas Maloney)

Department of Economics

Examining Corporate Social Disclosure and Financial Reporting in Qatar

Poster 37: Parisa Badizadegan (Kirsten Butcher)

Department of Educational Psychology

Understanding and Evaluating Effective Technology Integration in the Classroom

Poster 38: Deanna Lines (Troy Madsen)

Department of Surgery

Family History and the Risk of Diagnosis of Acute Pulmonary Embolism in the Emergency Department

Poster 39: Alexa Weight (Scott Youngquist)

Department of Surgery

Evaluation of Cardiac Care in the State of Utah

Poster 40: Rachelle Chaston (Charlie Hicks-Little)

Department of Exercise & Sport Science

The Effects of Fluoroquinolone Toxicity in a Healthy Athletic Female: A Case Study

Poster 41: Kha Ngyuen (Kerry Jaques)

Department of Exercise & Sport Science

The Effectiveness of ePortfolio for Graduating Students

Poster 42: Lisa Palomaki (Jim Martin)

Department of Exercise & Sport Science

Determining the Effects of Pedaling Rate on Fatigue During Maximal Effort Cycling

Poster 43: Adam Rockwood and Justin Bean (Charlie Hicks-Little)

Department of Exercise & Sport Science

The Acute Effects of Russian Stimulation on Peak Torque in the Elbow Joint

Poster 44: Carlie Teague (Jennifer Watt)

Environmental and Sustainability Studies Program

A High-Resolution Record of MPB Outbreaks over the Holocene at Baker Lake, Montana

Poster 45: Rials Christensen (Richard Forster)

Department of Geography

Snow Accumulation During the Last Decade: A Study of Greenland and Antarctica

Poster 46: Evan Melquist (Erich Petersen)

Department Geology & Geophysics

Geothermal Alteration in Government Canyon, Elberta, Utah

Poster 47: Andrea Gossles and Sarah Webb (Les Chatelain)

Department of Health Promotion and Education

Comparing Traditional Format EMT Classes with Hybrid EMT Classes

Poster 48: Katrina Farkas Hineker and William Tang (Alan Light)

Department of Anesthesiology

The Effects of Pregabalin on Pain

Poster 49: Megan Dipo (Bradley Parker)

Department of History

Bringing Microarchaeology to the Andes

Poster 50: Elliot Lee (Nels Elde)

Department of Human Genetics

Asthma Genes and IFN Inducible GTPases

Poster 51: Tyler Schimko (Gillian Stanfield)

Department of Human Genetics

Mapping Suppressors of swm-1 in Caenorhabditis elegans

Poster 52: Andrew Pagels (Tomasz Petelenz)

Department of Bioengineering

At-Home Medical Testing: Verifying the Reliability of a Novel Sample Collection Device, iTest™

Poster 53: Savannè Bohnet (Rachel Hayes-Harb)

Department of Linguistics

International Teaching Assistant Accent Adaptation Study

Poster 54: Carina Hahn (Mike Scarpulla)

Department of Electrical & Computer Engineering

Plasmonically Active Silver Nanowire Structures for Energy Storage Applications

Poster 55: Andrew Blanco and Cody Wayment (Keunhan Park)

Department of Mechanical Engineering

Nano-scale Conductive Heat Transfer of Air between Parallel Plates

Poster 56: Casey Elliott (Swomitra Mohanty)

Department of Metallurgical Engineering

Bacterial Inactivation with Anodically formed Titanium Dioxide Nanotubes

Poster 57: Moriah Sadiq (Jesse Rowley)

Department of Internal Medicine

Induction of Neutrophil Extracellular Trap (NET) Formation By Stored Platelets

Poster 58: Megan McDowell (Alexa Doig)

College of Nursing

Root Cause Analysis of Medication Errors Made by Novice Nurses

Poster 59: Scott Khuu (Rodney Stewart)

Department of Oncological Sciences

sdhb Deficiency in Neuroblastoma

Poster 60: Michael West (Andrew Anderson)

Department of Orthopedics

Motion Analysis in the Ankle Joint Complex

Poster 61: Ida Nourbakhsh (Hamid Ghandehari)

Department of Pharmaceutical Chemistry

Designing an Embolic Therapy Capable of Drug Delivery

Poster 62: Sophia Mahoney (Jordan Gerton)

Department of Physics & Astronomy

Using Surface States of Gallium Nitride Nanowires for Solar Spectrum-Matched Photocatalytic Water-Splitting

Poster 63: Cecilia Cardozo (Cori A. Agarwal)

Department of Surgery

FTM Chest Masculinization

Poster 64: Diya Shah (Ella Myers)

Department of Political Science

Appropriation of Sacajawea During the First Wave Feminism

Poster 65: Willem Collier (Tabitha Benney)

Department of Political Science

Stabilization and Adjustment in Economies of Transition: Analyzing Prerequisites for Success

Poster 66: Tillie McInnis (Ella Myers)

Department of Political Science

Disruptive Power: A Comparison of Political Voice for Non-Elites After The Great Depression & The Recession of 2008

Poster 67: Jacob Tonks (Mark Button)

Department of Political Science

Political Life Without Virtue: A Response to the Situationist Critique of Virtue Ethics

Poster 68: Marshall Grimm (Cecilia Wainryb)

Department of Psychology

Adolescent's Guilt Proneness and Their Emotional Arousal During Narratives of Their Moral Transgressions

Poster 69: Bryce Huntbach (Yana Suchy)

Department of Psychology

Can the Measurement of State Changes During Neuropsychological Testing Be Used to Improve Ecological Validity Above and Beyond Task Performance?

Poster 70: Magdalen Memmott (Jason Watson)

Department of Psychology

DRM and Driving: Creation of False Memories under Cognitive Workload

Poster 71: Mira Reynolds (Craig Bryan)

Department of Psychology

Guilt and Shame Among Military Personnel and Veterans Who Have Experienced Military Sexual Trauma

Poster 72: Leslie Cepeda-Echeverria (Matthew S. Thiese)

Department of Family & Preventive Medicine

Depression, Lost Work Time and Light Duty in Manufacture Workers with Low Back Pain

Poster 73: Steven Farr (John Eckstein)

School of Music

Supplementing Cello Studies with Frequent Performance Opportunities

Poster 74: Tera Clausen (Rebecca Utz)

Department of Sociology

Fruit and Vegetable Consumption in Utah: Identifying Low-consuming Market Segments and Appropriate Mediums to Use for Outreach Opportunities

Poster 75: Jeffrey Furlong (Cathleen Zick)

Department of Family & Consumer Sciences

Strategic Planning for Experiential Learning Outcomes

Poster 76: Georgie Zamantakis (Lindsay Gezinski)

College of Social Work

Invisible Bodies: Queer and Trans* Youth in the Juvenile Legal System*

Poster 77: Libby Giles (Brett Clark)

Department of Sociology

Small Business in a Global Economy: Can Local Florists Continue to Blossom?

Poster 78: Tonya Long (Rebecca Utz)

Department of Sociology

The Price of Getting Fit: How Socioeconomic Status Affects Physical Activity Level in Utah

Poster 79: Rebekah Meads (Rebecca Utz)

Department of Sociology

High and Low Indexing Segments for Access and Utilization of Healthcare across Utah

Poster 80: Jessica Twombly (Darlene Caldwell)

Urban Institute for Teacher Education

Collaborative Methods of Special Education and General Education Teachers

Poster 81: Jessica Luviano (Carolyn Bliss)

Health Sciences LEAP

Building Better Anticoagulants

Poster 82: Matthew Drake (Sarah Hinner)

Department of City & Metropolitan Planning

Parks and Children: A National Analysis of the Distribution and Access That Children Living in Poverty Have to Green Space in Mid-Sized Urban Areas

POSTER SESSION II

10:30 a.m. – 12:00 p.m.

MAIN BALLROOM

Poster 1 (Southwest Corner): Jared Walker (Maureen O'Hara Ure)

Department of Art & Art History

Suburban Narratives: A Painting Series

Poster 2: Megan Davies (Brian Baucom)

Department of Psychology

Physiological Predictors of Stress in Couple's Interactions

Poster 3: Carina Hahn and Omar Salah (Mike Scarpulla)

Department of Electrical & Computer Engineering

Design of a Fabrication Process for CZTS/Se Photovoltaics

Poster 4: Spencer Taylor (Richard J. Porter)

Department of Environmental & Civil Engineering

Review Of Potential For Illuminated Pavement Markers On Utah Roads

Poster 5: Emily Dart (Robin Craig)

College of Law

Climate Change Impacts on Water Treatment Facilities in New York: A Public Health Concern

Poster 6: Alexander Lowe (Gabe Bowen)

Department of Geology & Geophysics

Chemical weathering rates preserved in Paleocene aged Paleosols from Big Bend National Park, West Texas

Poster 7: John Roylance (Marjorie Chan)

Department of Geology & Geophysics

Red Hill Hot Springs Mineralogy and, Hydrothermal Environments Monroe, Utah

Poster 8: Hillary Terrell and Megan Bush (Linda Edelman)

College of Nursing

Prevalence and Characteristics of Common Skin Diseases in Rural Ghanaian Children

Poster 9: Jiayue Feng (Jindrich Kopecek)

Department of Pharmaceutical Chemistry

HPMA-PNA Hybrid Hydrogel Formed by “P-Form” Triplex

Poster 10: Alexander Beams (Frederick R. Adler)

Department of Mathematics

Epidemiology of Dual-Strain Bacterial Infections

Poster 11: Alyssa Iacono (Carol Sansone)

Department of Psychology

Context Affects Undergraduates' Goals and Engagement Behaviors When Learning Online

Poster 12: Kya Palomaki (Brent Steele)

Department of Political Science

A World Without Nukes: International Relations Perspectives

Poster 13: Madison Thomas (Lisa Diamond)

Department of Psychology

Coding Sexuality

Poster 14: Kayla Watson (Claudia Geist)

Department of Sociology

The Price of Gender Equality: Visualizing the Link Between Marriage, Divorce Patterns, and Gendered Economic Opportunities in Comparative Perspective

Poster 15: Guowang Rao (Michael Cooper)

Department of Finance

Predicting Financial Markets with Google Search Volume Index

Poster 16: Moore Kurt (Jeff Coles)

Department of Finance

Analyzing the Market Value of Firms Within Contributing Industries of the 2008 Financial Crisis

Poster 17: Charles Foote (Jeff Coles)

Department of Finance

Measuring an Ideas Based Economy: An Analysis of Total Factor Productivity

Poster 18: Tyler McDaniel (Erin Castro)

Department of Education, Leadership and Policy

Demographics of the Salt Lake Educational Pipeline

Poster 19: Patrick Eccles (Robert Kessler)

Department of Computing

Student Game Design Process

Poster 20: Ian Robinson and Mikal Hannah (Taylor Sparks)

Department of Materials Science & Engineering

Building a Spark Plasma Sintering Machine for Advanced Ceramic Synthesis

Poster 21: Clarissa Godinez Hernandez (Julie Metos)

Department of Nutrition

The First Years Out: Young Adults' Perception on Healthful Eating and Physical Activity

Poster 22: Francisco Samaniega and Itzel Hernandez (Carolyn Bliss)

Health Sciences LEAP

Mentorship Towards Higher Education

Poster 23: Alejandra Hernandez and Deysi Rivera (Carolyn Bliss)

Health Science LEAP

Reach For Your Dreams in a Dual Immersion Classroom

Poster 24: Christina Ferguson (Katherine J.W. Baucom)

Department of Psychology

Marital Status and Distress Among Low-Income Couples Transitioning to Parenthood

Poster 25: Mackenzie Martin (Sara Yeo)

Department of Communication

Utah Residents' Perceptions of Water Issues

Poster 26: Amanda Jarvis (Soheila Amirsoleimani)

Department of Languages & Literature

Leftists as Political Opposition in Iran

Poster 27: Lindsay Schwendiman (Mark Matheson)

Department of English

Surrogacy and Sisterhood: How Female Alliances Challenge Patriarchal Society in Shakespeare

Poster 28: Alex Boren (Alf Seegert)

Department of English

Questioning My Answers: Exploring "Cloud Atlas" In Relation To My B.U.S. Degree, "Philosophy for Life"

Poster 29: Caroline Wang (Catherine Loc-Carrillo)

Department of Orthopedics

Treatment of Osteomyelitis Using Vancomycin Administered Locally in an In-vivo Rat Model

Poster 30:

Poster 31: Arielle de Jesus (Michael Simpson)

Department of Metallurgical Engineering

Investigating the Reduction Potentials of Lithium Oxide Salt

Poster 32: Elizabeth Howell (Rodney Stewart)

Department of Oncological Sciences

Analysis of Candidate Genes Sufficient for Craniofacial Defects Associated with Chromosome 7P22.1 Microduplication

Poster 33: Joshua Visser (Thomas Richmond)

Department of Chemistry

Selective Reduction of Isomeric Perfluorodecalin and Other Fluorine Compounds with a Sandwich Compound

Poster 34: Alyssa Fredbo (Martin Horvath)

Department of Biology

Bacterial Expression of Toxins from Predatory Cone Snails to Identify Potential Novel Therapeutic Drugs

Poster 35: Andrew Hancock (Colin Date)

Department of Biology

*Genetically Engineering *Sodalis glossinidius* Using Native Plasmid DNA*

Poster 36: Garrett Stevens (Vikram Deshpande)

Department of Physics & Astronomy

Synthesis of Topological Insulator Heterostructures via Chemical Vapor Deposition

Poster 37: Charles Lee (Brian Saam)

Department of Physics & Astronomy

A Demonstration Apparatus for Spin-Exchange Optical Pumping

Poster 38: Joseph Aman (Baldomero Olivera)

Department of Biology

Conopeptide Discovery through Calcium Imaging

Poster 39: Michael Zhao (Braxton Osting)

Department of Mathematics

Spectrum of Random Graph Models

Poster 40: Judah Evangelista (Janis Louie)

Department of Chemistry

Synthesis of Natural Products via Ni-Catalyzed Cycloaddition

Poster 41: Nicole Talbot (Mitchell Power)

Department of Geography

Providing a Long-term Context for the 2007 Milford Flat fire: A 13,000-year Fire History

Poster 42: Logan Broadbent (Adrian Bell)

Department of Anthropology

Incorporating Faculty Data and Research in Student Learning

Poster 43: Hye-ri Lee (Monisha Pasupathi)

Department of Psychology

Eliciting Event Type: Rumination and Emotional Complexity

Poster 44: Colette Ankenman (Marissa Deiner)

Department of Family & Consumer Studies

Understanding Youth Educational and Occupational Goals in After School Programs

Poster 45: Katrina Riley (Bob Butters)

College of Social Work

Batterer Intervention Programs' Effectiveness: A Qualitative Study

Poster 46: Kanyana Juliet (Matthew S. Thiese)

Department of Family & Preventative Medicine

Personal Factors associated with Seeking Health Care for Low Back Pain

Poster 47: Jordan O'Neal (Brian Chapman)

Department of Radiology

Making Medical Images Meaningful: Patient-Orientated Reporting Using Structured Textual and Graphical Tools

Poster 48: Brandon Day (Taylor Sparks)

Department of Materials Science & Engineering

Phase Change Material as a Heat Sink

Poster 49: Stephanie Tello (Jie Zhang and Ron Hughen)

Department of Anesthesiology

An Immunohistochemical Study of the Sensory Innervation in the Mouse Skeletal Muscle

Poster 50: Spencer Knight (Andrew Anderson)

Department of Orthopedics

The Morphology and Mechanics of Hip Dysplasia and PAO Surgery

Poster 51: Enoabasi Etokidem (Akiko Kamimura)

Department of Sociology

Health Promotions Programs through Free Clinics in Underserved Populations

POSTER SESSION III

1:30 – 3:00 p.m.

MAIN BALLROOM

Poster 1: Connor Howard (David Plumlee)

Department of Accounting

FASB Proposed Revenue Recognition and the Impact Upon United States Corporate Financial Statements

Poster 2: Mahala Olsen and Liadra Alena Moea'l (Adrian Bell)

Department of Anthropology

Polynesian Material Culture

Poster 3: Gregory Stacy, Elizabeth Poulsen, Colby Kallian, and Conner Stephens (Erin Carraher)

Department of Architecture

Chicago LAB Midway Study

Poster 4: Alan Taylor (Anne Mooney)

Department of Architecture

Translation of Music into Architecture

Poster 5: Nathan Smith (Janet Shaw)

Department of Biochemistry

Generating Miro2 Knockouts in Mouse Embryonic Fibroblasts

Poster 6: Jordan Davis (Bruce Gale)

Department of Mechanical Engineering

Bacteria Detection via Electrochemical Tagging

Poster 7: Meera Raghavan (Tara L. Deans)

Department of Biochemistry

The Effects of Gene Expression Noise on Adipogenesis

Poster 8: Alexandros Cherry (Erik Jorgenson)

Department of Biology

Determining the role of Rab3-Interacting Molecule Binding Protein (RIMB-1) in Positioning L-type and N-type Voltage-Gated Calcium Channels within the Presynaptic Membrane

Poster 9: Rachel Painter, Chloe Young, and Kathleen Maguire (Wayne Potts)

Department of Biology

Sex-based, Reciprocal Virulence and Transmission Dynamics Due to Friend Virus Infection of Mice

Poster 10: Angela Hansen (Sarah Bush)

Department of Biology

Can the Presence of Avian Malaria in Pigeons Be a Proxy for the Presence of Its Mobile Insect Vector?

Poster 11: Elisabeth Zachary (Wayne Potts)

Department of Biology

Viral Evolution Driven by MHC Diversity

Poster 12: Hector Zumaeta Santiago (Sarah Bush)

Department of Biology

Effect of Environmental Gradients on Parasites of Deer Mice in the Great Basin

Poster 13: Nicole Leonard (Dave Temme)

Department of Biology

Vitamin D Deficiency in Flight Attendants and Pilots

Poster 14: Mandy Giles (Denise Dearing)

Department of Biology

Chill Out: Behavior Shifts by Mammalian Herbivores Challenged by Temperature and Toxins

Poster 15: Yinhua Su (Catherine Loc-Carrillo)

Department of Orthopedics

Obligately Lytic Phage Treatment for Methicillin-Resistant Staphylococcus Aureus Infections

Poster 16: Alexa Anderson (Sarah Franklin)

Department of Internal Medicine

Smyd5's Role in Regulating Cell Growth in Isolated Ventricular Myocytes

Poster 17: Kelli Nelson (Jules Magda)

Department of Chemical Engineering

How Sterilization Affects Glucose-Sensitive Hydrogels

Poster 18: Van Ngyuen (John McLennan)

Department of Chemical Engineering

Itasca FLAC3D and PFC3D for Simulating In-situ Pyrolysis

Poster 19: Jason McHann (Michael Hoepfner)

Department of Chemical Engineering

Synthesis of Silver Nanocube Dimers for Molecular Detection

Poster 20: Kelan Albertson (Shelley Minter)

Department of Chemistry

Improving Fuel Cell Performance Through Modifications of the Electrode Surface

Poster 21: Evelyn Kimbrough (Jennifer Heemstra)

Department of Chemistry

Determination of Critical Micelle Concentrations Using a New Solvatochromatic Dye

Poster 22: Dominic Caputo (Michael Bartl)

Department of Chemistry

Development of Methodology of Mesoporous Composite Materials

Poster 23: Elias Cardiel (Reha Toydemir)

Department of Pathology

Finding the Genetic Makeup of Individuals with Bor Syndrome

Poster 24: Ming Gao (Joel Harley)

Department of Electrical & Computer Engineering

Calibration-free tumor detection

Poster 25: Jared Perry (Traci Thompson)

Department of Exercise & Sports Science

Marketing Strategies and Business Systems

Poster 26: Otgonbayar Ochirbat (Erich Petersen)

Department of Geology & Geophysics

Advanced-Argillic Alteration in the Silver Pass Area, East Tintic Mountains, Utah

Poster 27: Jason Chieh Sheng Tey (Yan-Ting Shiu)

Department of Internal Medicine

Detection of Damaged Collagen in Uremic Vessels Using Photo-Cleavable Nitrobenzyl-caged and Carboxyfluorescein-labeled Collagen Mimetic Peptides

Poster 28: William Meredith (Kevin John and Maija Reblin)

College of Nursing

The Occurrence of Positive Emotion in Hospice Family Caregiver and Nurse Communication

Poster 29: Amy Yu (Kent Bachus)

Department of Orthopedics

PMMA Formula Modification Through the Preinfiltration and Infiltration Times to Create Optimal Product for Immunohistochemistry Studies

Poster 30: Ingrid Gonzalez, Mackenzie Hirai, and Cameron Silva (Cori Agarwal)

Department of Surgery

FTM Chest Masculinization

Poster 31: Curtis Miller (Cihan Bilginsoy)

Department of Economics

Utah's Gender Gap

Poster 32: Matthew Hadley (Scott Youngquist)

Department of Surgery

Patients Admitted to the OU: Frequency of Condition Management Changes Following Further Observation Unit Testing

Poster 33: Bettymaya Foott (Stephen Goldsmith)

Department of City & Metropolitan Planning

Light Pollution Hazards to Nocturnal Avian Migration

Poster 34: Sean Shahmirzadi (Charlie Hicks-Little)

Department of Exercise & Sport Science

Bilateral Os Trigonum in Division I Female Gymnast

Poster 35: Adam Whitney (Charlie Hicks-Little)

Department of Exercise & Sport Science

Assessing the Need of Physical Therapy in the Salt Lake City Homeless Population

Poster 36: Claire Schraidt (Erich Petersen)

Department of Geology & Geophysics

Paleo Hot Spring Geothermometry in the Treasure Hill Area, East Tintic Mountains, Utah

Poster 37: Willem Schott (Adrienne Cachelin)

Environmental & Sustainability Studies Program

Promotion vs. Education in Choosing "Real Food"

Poster 38: Kylie Gilmartin and Brenda Alcantar (Carolyn Bliss)

Health Sciences LEAP

Helping Children Reach for Their Dreams

Poster 39: Katie Tran and Luan Truong (Jim Agutter and Mary Elizabeth Hartnett)

Department of Architecture and Department of Ophthalmology

Coat's Disease Patient Needs Assessment

Poster 40: Joshua Cordova and Min-Jee Goh (Carolyn Bliss)

Health Sciences LEAP

Bryant and Beyond Research Project

Poster 41: Monique Sumi and Kelsey Hanna (Carolyn Bliss)

Health Science LEAP

Reach for your Dreams

Poster 42: Khrystine Kelsey (Ginger Smoak)

Department of History

Prostitution & the Construction of Female Identity

Poster 43: Kathy Tran (Elizabeth Clement)

Department of History

Sexual and Reproductive Health and Services in the Women's Jail

Poster 44: Sydney Wyatt (Deborah Neklason)

Department of Internal Medicine

Analysis of APC Mutation-Negative Patients

Poster 45: Jessica Loveland (Mamiko Suzuki)

Department of Languages & Literature

Sociolinguistic Differences Between Japanese and English as Seen through English Translations of Manga

Poster 46: Jennifer Mejia and Aesher Ossana (Nancy Allen)

College of Nursing

Self-efficacy Scale for Diabetes Dietary Behavior: Development and Psychometric Evaluation

Poster 47: Nolan Williams (Abby Kaplan)

Department of Linguistics

Modeling Self-Organized Category Formation and Selective Attention Training for Fricative Perceptual Cues

Poster 48: Max Gallant and Nic Flinner (Taylor Sparks)

Department of Materials Science & Engineering

Electrochromic Tint Control for Snow Goggles

Poster 49: Tyler Trueax (Mathieu Francoeur)

Department of Mechanical Engineering

Simulating Nanoscale Radiative Heat Transfer

Poster 50: Sean Jones (Bruce Gale)

Department of Mechanical Engineering

Biofuel Cells for Portable and Implantable Devices

Poster 51: Nandini Deo (Swomitra Mohanty)

Department of Chemical Engineering

Purification of Air Using Molecular Modeling and Photocatalytic Nano-materials

Poster 52: David Baraghoshi and David Zobell (Linda Edleman)

College of Nursing

Triage Disparities for Traumatic Injuries in Older Adults

Poster 53: Jane Lembcke (Maija Reblin)

College of Nursing

Communication Reflections: Desired and Actual Talk in Home Hospice Care

Poster 54: Simran Kaur (Gwen Latendresse)

College of Nursing

The Impact of Maternal Depression on Serotonin Synthesis and Protein Transporters in the Placenta and Newborn Serotonin Levels

Poster 55: Melissa Mossar (Nancy Allen)

College of Nursing

Recruitment of Ethnically Diverse Populations in Diabetes Research

Poster 56: Maritza Lara Villota (Nancy Allen)

College of Nursing

Self-efficacy for Diabetes Dietary Behavior: Development and Psychometric Evaluation

Poster 57: Alexandria Yost (Lauren Clark)

College of Nursing

Assessing Health-Related Quality of Life for Persons with Intellectual Disabilities

Poster 58: Yumna Subhani (Paul Bernstien)

Department of Ophthalmology and Visual Sciences

Improving the Uptake of Lutein And Zeaxanthin using Transgenic Mice Models

Poster 59: Trevor Hafer and Tyler Skinner (Andrew Anderson)

Department of Orthopedics

Hip Biomechanics

Poster 60: Andrew Johansen (Lisa McFadden)

Department of Pharmacology & Toxicology

Sex Differences in Methamphetamine Abuse

Poster 61: Maxton Muir (Louis Barrows)

Department of Pharmacology & Toxicology

Natural Products from Papua New Guinea Active Against Triple Negative Breast Cancer

Poster 62: David Stephens (Pearl Sandick)

Department of Physics & Astronomy

Constraints on Wimps and Dark Star Remnant Populations Using Synchrotron Radiation from Dark Matter Annihilations

Poster 64: Christianna Tu (John Francis)

Department of Political Science

Closing the Development Gap: Improving Health Care in Southeast Asia

Poster 65: Hannah Schryver (Matthew Euler)

Department of Psychology

EEG and Cognitive Correlates of Elementary Task Performance

Poster 66: Karen Stovall (Lisa Diamond)

Department of Psychology

Reasons for Cohabitation on the Outcome of Relationship Quality and Satisfaction

Poster 67: Julia Chandler (Sheila Crowell)

Department of Psychology

A Preliminary Investigation into the Effects of Mindfulness Practice in a Transdiagnostic Clinical Population

Poster 68: Isa Shreeve (Brandon Peterson)

Department of Languages & Literature

A Study of Monotheistic Origins in the Ancient Near East

Poster 69: Jessica Chamorro (Jaehee Yi)

College of Social Work

Cross-cultural Examination of the Developmental Experiences of College Students in the United States Using the Emerging Adulthood Theory

Poster 70: Sydney Willis (Caren Frost)

College of Social Work

Culturally Comprehensive Refugee Family Planning Curriculum

Poster 71: Enoch Smith (Claudia Geist)

Department of Sociology

When Men Are the Victims: The Incidence of Sexual Assault Against Men

Poster 72: Sarath Thekkedath (Kenneth M. Golden)

Department of Mathematics

Sea Ice in a Metal Box: What Can it Tell us About Our Climate?

Poster 73: Oliver Richardson (Holly Sebahar)

Department of Chemistry

Spirit of the Matter: Harnessing Gaming to Teach Organic Chemistry

Poster 74: Courtney Dean (Thomas Maloney)

Department of Economics

Poverty in Utah

Poster 75: Toni Smith (Edward Bateman)

Department of Art & Art History

Love, And 1,138 Other Reasons to Marry

Poster 76: Megan Jensen (Sydney Cheek O'Donnell)

Department of Theater

Dr. Faustus and Bosch

Poster 77: Kinzie James (Bruce Dain)

Department of History

The Tunnel- A Concept Music Album

Multi- Disciplinary Design Displays

EAST BALLROOM

Poster 80: Brian Charlesworth (Jim Agutter)

Department of Architecture

Cyclone: Emergency Short Term Air Supply

Poster 81: Matthew Parkin (Elpitha Tsoutsounakis)

Department of Architecture

Adaptive Hand Cycle Peddle

Poster 82: Alex Pastucha (Jim Agutter and Elpitha Tsoutsounakis)

Department of Architecture

Salthe Adaptive Climbing Protection

Poster 83: Dane Antes (Jim Agutter)

Department of Architecture

Axis Adaptive Lever

Poster 84: Daley Yoshimura (Jim Agutter)

Department of Architecture

Lumi Modular Camping Lantern

Poster 85: Court Skabelund (Jim Agutter)

Department of Architecture

'Shifting' the Conversation

Poster 86: John Fabela (Jim Agutter)

Department of Architecture

Spark: Survival Hatchet

Poster 87: Vance Hawley (Jim Agutter and Elpitha Tsoutsounakis)

Department of Architecture

HYPRE - HandcYcle Powered Recumbent Exoskeleton

Poster 88: Jacob Turnblom (Elpitha Tsoutsounakis)

Department of Architecture

Shotgun Silencer

Poster 89: Remington Plewe (Jim Agutter)

Department of Architecture

Anaconda X1

Poster 90: Samantha DeHerrera (Jim Agutter)

Department of Architecture

Fit Grip

Poster 91: Justin Pōk (Jim Agutter)

Department of Architecture

Bright Ties

Poster 92: Zach Henderson (Jim Agutter and Elpitha Tsoutsounakis)

Department of Architecture

Qik Clip

Poster 93: Jonathon Wilson (Jim Agutter and Elpitha Tsoutsounakis)

Department of Architecture

An Innovative Communication Device for Climbers

Poster 94: McKay Nilson (Elpitha Tsoutsounakis)

Department of Architecture

Summit Snowboard Tool

Poster 95: Michael Larsen (Elpitha Tsoutsounakis)

Department of Architecture

Salvelinus Sole Inserts

Poster 96: Aliza Jensen (Elpitha Tsoutsounakis)

Department of Architecture

Black Pine Coffee Brewing System

Poster 97: MaKell Webb (Elpitha Tsoutsounakis)

Department of Architecture

Lil' Geode

Poster 98: DJ Stuart (Jim Agutter and Elpitha Tsoutsounakis)

Department of Architecture

Velo Wrist Clip

Poster 99: Anna Ferguson (Jim Agutter)

Department of Architecture

Adaptive Sports: Relieving Pressure Sores with Cycling Pants

Poster 100: Evan Howard (Jim Agutter)

Department of Architecture

Hand Cycling Shoe

Poster 101: Brooke Keene (Jim Agutter)

Department of Architecture

Adaptive Outdoor Blanket

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