NINTH ANNUAL
UTAH CONFERENCE ON UNDERGRADUATE RESEARCH

FEBRUARY 27, 2015
DIXIE STATE UNIVERSITY, ST. GEORGE, UTAH 84770

Brigham Young University
Dixie State University
Salt Lake City Community College
Southern Utah University
University Of Utah
Utah System of Higher Education

Utah State University
Utah Valley University
Weber State University
Westminster College
Snow College
## Program Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 a.m. – 1:30 p.m.</td>
<td>Registration</td>
<td>Gardner Center Lobby</td>
</tr>
<tr>
<td>8:00 a.m. – 9:00 a.m.</td>
<td>Continental Breakfast</td>
<td>Gardner Center Ballroom</td>
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<tr>
<td>9:00 a.m. – 10:00 a.m.</td>
<td>Welcome:</td>
<td>Gardner Center Ballroom</td>
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<tr>
<td>9:00 a.m. – 10:00 a.m.</td>
<td>Stephen B. Armstrong</td>
<td>Holland Lounge 474</td>
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<tr>
<td>9:00 a.m. – 10:00 a.m.</td>
<td>DSU President Richard Williams</td>
<td>Holland Lounge 474</td>
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<tr>
<td>9:00 a.m. – 10:00 a.m.</td>
<td>Mary Whitehead</td>
<td>Holland Lounge 474</td>
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<tr>
<td>9:00 a.m. – 10:00 a.m.</td>
<td>DSU President Emeritus Stephen Nadauld</td>
<td>Holland Lounge 474</td>
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<tr>
<td>9:00 a.m. – 10:00 a.m.</td>
<td>Keynote Speaker, Lincoln Nadauld</td>
<td>Holland Lounge 474</td>
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<tr>
<td>10:15 a.m. – 11:45 a.m.</td>
<td>Poster Session 1</td>
<td>Holland Lounge 474</td>
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<tr>
<td>10:30 a.m. – 12:30 p.m.</td>
<td>Oral Session 1</td>
<td>Holland Floors 3 and 4</td>
</tr>
<tr>
<td>10:30 a.m. – 11:30 a.m.</td>
<td>Breakout Session 1</td>
<td>Holland 457</td>
</tr>
<tr>
<td>10:30 a.m. – 11:30 a.m.</td>
<td>Dr. Greg Prince</td>
<td>Holland 457</td>
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<tr>
<td>12:00 p.m. – 1:30 p.m.</td>
<td>Lunch</td>
<td>Gardner Center Ballroom</td>
</tr>
<tr>
<td>12:30 p.m. – 2:00 p.m.</td>
<td>Poster Session 2</td>
<td>Holland Lounge 474</td>
</tr>
<tr>
<td>1:30 p.m. – 2:30 p.m.</td>
<td>Breakout Session 2</td>
<td>Holland 457</td>
</tr>
<tr>
<td>1:30 p.m. – 2:30 p.m.</td>
<td>Dr. Brenton Scott</td>
<td>Holland 457</td>
</tr>
<tr>
<td>1:00 p.m. – 3:00 p.m.</td>
<td>Oral Session 2</td>
<td>Holland Floors 3 and 4</td>
</tr>
<tr>
<td>2:30 p.m. – 4:00 p.m.</td>
<td>Poster Session 3</td>
<td>Holland Lounge 474</td>
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</table>
Keynote Speaker: Dr. Lincoln Nadauld

Gardner Center Ballroom A 9:00am – 10:00am

Dr. Lincoln Nadauld is the son of Stephen Nadauld, Dixie State University’s President from 2010-2014. He graduated from Brigham Young University with a bachelor’s degree in zoology and received his medical and doctoral degrees in 2007 from the University Of Utah School Of Medicine. He continued his postdoctoral education at Stanford University, gaining clinical training in medical oncology while studying solid tumor genomics. He stayed on at the Stanford School of Medicine to continue learning more about cancer genomics and personalized cancer medicine. In 2012, the American Society of Clinical Oncology bestowed Nadauld with the Young Investigator Award.

Nadauld currently practices medicine with a specialty in medical genetics at St. George’s Dixie Regional Medical Center. He is the director of Cancer Genomics at Intermountain Healthcare. He presented, along with interns Brian Caldwell and Aston Basile, his research on cancer genomics at a DSU’s Dixie Forum in October 2014.

Breakout Session 1: Dr. Gregory Prince

Holland English Lounge 457 10:30am – 11:30am

Dr. Gregory Prince, a graduate and valedictorian of Dixie State College, received his first degree in 1967 at age 19. He served a two-year mission in Brazil for The Church of Jesus Christ of Latter-day Saints after leaving Dixie. After his return in 1969, he studied pathology in the University of California’s graduate program, earning his Ph.D. in 1975. He spent his post-doctoral fellowship at the National Institute of Health and John Hopkins University. In 1987, he co-founded and later served as president and CEO of Virion Systems, Inc, a biological laboratory in Rockville, Maryland.

In 1999, Dixie State College inducted Prince into its Hall of Fame, and in 2012, the institution awarded him an Honorary Doctorate of Humanities. Prince and his wife, JaLynn, established the Madison House Foundation in 2009, an organization that informs the public about how autism affects the community. In addition, Prince sits on DSU’s, University of Utah’s, and Johns Hopkins University School of Education’s National Advisory Council; the Montgomery College Foundation Board; and the National Presidential Advisory Board of Utah Valley University.

Breakout Session 2: Dr. Brenton Scott

Holland English Lounge 457 1:30pm – 2:30pm

Dr. Brenton Scott began his academic career at Dixie State College before transferring to SUU to major in chemistry. After receiving his BS in chemistry in 2000, he went on to earn his MBA from the University of Houston; at the same time he received his doctoral degree in Biochemistry and Cell Biology from Rice University. He continued with a fellowship at MD Anderson Cancer Center, where he co-founded Pulmotect and currently serves as the President. Pulmotect is commercializing proprietary technology to activate the lungs’ innate immune defense system. Scott’s company has won multiple awards, including a significant award from the State of Texas in 2012 through a program to help develop cancer technologies. The technology has advanced into human clinical trial testing, bringing an immune modulator for respiratory infections to help cancer and other at risk populations closer to the market.
Poster Sessions: Jeffery R. Holland Centennial Commons Fourth Floor

Poster Session 1 – 10:15 – 11:45

**Education**
1. Logan Carter, SUU
2. Mary Ann Hammon, Madeline Williams, Sydney Sneddon, USU
3. Emily Kunz, Shea Long, USU
4. Mercedes Sanford, Ryan Pearson, Kate Summers, USU
5. Taylor Anderson, Amy Nielsen, Megan Israelsen, USU

**Life Sciences**
9. Kurt Williams, BYU
10. Tielle Gallion, Mary Davis, BYU
11. Kyle Kener, BYU
12. Scott Frodsham, BYU
13. Jordan Tingey, BYU
14. Jenny Pattison, BYU
15. Westen Archibald, Emily Forsyth, BYU
16. Bryce Anderson, BYU
17. Jason Ray, BYU
18. Katherine Harris, Thomas Andros, BYU
19. Daniel Barnett, BYU
20. Matthew Durrant, BYU
21. Amanda Johnson, Rian Farr, DSU
22. Shay Beck, DSU
23. Travis Jones, DSU
24. Michael Hinkley, DSU
25. Coral Gardner, SUU
26. Alysa Edwards, U of U
27. Alex Hyer, U of U
28. Morgan Hughes, USU
29. Kari Norman, USU
30. Laine Anderson, USU
31. Tyler Hansen, USU

**Health**
6. Paydon Newman, DSU
7. Rebekah Goodrich, U of U
8. Zachary Hansen, U of U

**Physical Sciences**
32. Mac Pierce, U of U
33. Brett Barton, DSU
34. Eric Johnson, U of U

**Social and Behavioral Sciences**
35. Camila Trujillo Medina, Mikaela Dufur, Daniela Barriga, BYU
36. Devin Petersen, BYU
37. Emily Hartung, BYU
38. Jordan Sgro, Sarah Higbee, Chelsea Romney, Wendy Birmingham, BYU
39. Naomi Buys, DSU
40. Ho Yan Mok, DSU
41. Shawn King, DSU

Note: The numbers to the left of the students’ names represent their poster board numbers. Poster boards will be arranged sequentially in the Holland Centennial Commons, Fourth Floor.
Poster Sessions: Jeffery R. Holland Centennial Commons Fourth Floor

Poster Session 2 – 12:30 – 2:00

Communications
1. Aaron Gates, UVU

Education
2. Samantha DeLucci, Kamilla Okey, Brigid Crotty, Telesha Fricke, USU
3. Lauren Ezzell, Lauryn Chapman, Nick Marsing, SC
4. Jadyn Naylor, Kevin Duncan, Michael Jensen, USU

Engineering
5. Takami Kowalski, BYU
6. Adam Herron, Eric Homer, BYU

Humanities
7. Matthew Halverson, U of U

Life Sciences
8. Tyler White, BYU
9. Aimee Newsham, DSU
10. Hanna Meixell, Jacqueline Grant, SUU
11. Brent Knoblauch, Marty Larsen, DSU
12. Brent Wright, BYU
13. Anne Thomas, BYU
14. Amanda Hobson, Jeffery Tessem, BYU
15. Benjamin Bitner, BYU

Physical Sciences
1. Wendy Schatzberg, Jennifer Melvin, DSU
2. Melinda Hurlbut, DSU

Sciences
16. Mira Reynolds, U of U
17. Christian Kindt, Alyssa Ashton, Jay Homewood, BYU
18. Arthur Wardle, Melissa Funk, USU
19. Sarah Nagel, Maija Reblin, Allyson Brome, U of U
20. Spencer Waters, Hannah Page, BYU
22. Catherine Cragun, BYU
23. Sami Safiullah, U of U
24. Stephen Anderson, BYU
25. Grant Holyoak, USU
26. Chalise Carlson, U of U
27. Madalyn Page, Brandi Allred, USU
28. Kiri White, U of U
29. Erica Armstrong, Craig Bryan, U of U
30. Crystal Garcia, Kaitlin Staker, Lyndsi Drysdale, WSU
31. Gry Wheaton, U of U
32. Tara Steng, U of U
33. Darren Ott, Alex Henderson, Catie Nielson, BYU
34. Marshall Grimm, U of U
35. Kelsey Hatch, David Edlund
36. Corbin Standley, WSU
37. Austin Hernandez, SC
38. Clair Talley, Melissa Benavides, Cameron Maylet, Brea Dinehart, Torrey Larisch, SC
39. Dakota Wilson, SC

Note: The numbers to the left of the students’ names represent their poster board numbers. Poster boards will be arranged sequentially in the Holland Centennial Commons, Fourth Floor.
Poster Sessions: Jeffery R. Holland Centennial Commons Fourth Floor

Poster Session 3 – 2:30 – 4:00

Agriculture
1. Ryan Graham, Bryson Ensign, BYU
2. Samantha Beck, Toma Todorov, UVU

Education
3. Claudy Eckardt, WSU
4. Brian Gashler, UVU
5. Amber Christensen, WSU
6. Anne Leake, David Morgan, UVU
7. Kassandra Sqrow, WSU
8. Rachel Wilson, UVU
9. Preston Stratford, UVU

Health
12. Trey Esplin, Artis Grady, Jonathan Conley, Sean Kiesel, Kasey Margetts, SUU

Life Sciences
13. Michael Packer, UVU
14. Morgan Christiansen, Taylor Hoybjerg, James Johnston, BYU
15. Madalynne Fedoruk, Darian Carey, DSU
16. Bryce Taylor, Ian Kesler, SUU
17. Samantha Beirne, USU
18. Chase Barker, Trevor Gatenby, UVU
19. Cayden Westwood, DSU
20. Stephanie Bartlett, Brian Layton, UVU
21. Robert Erickson, Brian Hatch, UVU
22. Breanna Torgersen, Hailey Seaver, Abigail Gunn, BYU
23. Danny Ferguson, UVU
24. Christina Osborn, SUU
25. Jake Loveless, UVU

Engineering
10. Jordan Eatough, Brady Vance, Holly Howarth, Andrew Priest, Brenden Herrod, Brielle Woolsey, Steven Balls, BYU
11. Matthew Brockbank, UVU

Physical Sciences
26. Brandon Davies, UVU
27. Mathew Dye, SC
28. Melissa Warren, WSU
29. Benjamin Finch, UVU
30. Kyle Marcus, Riley Pearce, Cami McKellar, DSU
31. Paul Robertson, UVU
32. Kimberly Lowder, WSU
33. Ashleigh Wilson, UVU
34. Valerie Jacobson, WSU
35. Shireen Partovi, UVU
36. Monika Miller, WSU
37. Brad Draper, Hannah Firth, Patricia Stauffer, WSU
38. Kevin Jackman, UVU
39. Charles Moulding, Bora Song, WSU

Social and Behavioral Sciences
40. Frank Robertson, Harold Miller, BYU
41. Holly Clegg, Charles Yeager, SC
42. George Zamantakis, U of U

Note: The numbers to the left of the students’ names represent their poster board numbers. Poster boards will be arranged sequentially in the Holland Centennial Commons, Fourth Floor.
Oral Presentations

Oral Session 1 — Holland Room 470
10:30 a.m. - 12:30 p.m.

Agriculture and Life Sciences

10:30  Carrie Draney and Amanda Hobson  
       Brigham Young University  
       Expression of Cdk5r, and not Cdk5, Induces Primary β-Cell Proliferation

10:45  Joshua Peterson  
       Brigham Young University  
       Effects of Resveratrol on PMCA in Breast Cancer Cells

11:00  Stephan Maman and Holden Wagstaff  
       Southern Utah University  
       The Effects of Umbellularia Californica Essential Oil on the Cutaneous Vasculature of Frogs

11:15  Alex Bischoff, Tyler Hendricks, Sarah Livingston  
       Brigham Young University  
       Three-Dimensional Rapid Prototyping of Vascular Substitutes for Medical Applications

11:30  Simranvir Kaur  
       University of Utah  
       The Impact of Maternal SSRI Use on Serotonin Synthesis and Protein Transporters in the Placenta and Newborn Serotonin Levels

11:45  Kyllynn Parker  
       University of Utah  
       Trends in Birds Communities in Red Butte Canyon over the Past 22 Years

12:00  Richard Oblad  
       Brigham Young University  
       Anti-Proliferative Protein Binding Targets of Resveratrol

12:15  Jacob Welch  
       Brigham Young University  
       The Putative Cannabinoid Receptor GPR55: Expression, Modulation of Hippocampal Plasticity and Behavior
### Oral Presentations

#### Oral Session 2 — Holland Room 470

1:00 - 3:00 p.m.

**Agriculture and Life Sciences**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Affiliation</th>
<th>Title</th>
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<tr>
<td>1:00</td>
<td><strong>David Walton and Austin Thompson</strong></td>
<td>Brigham Young University</td>
<td>Neuregeneration: Potentiation of Nerve Growth Factor Receptor in Peripheral Nerves</td>
</tr>
<tr>
<td>1:15</td>
<td><strong>Derek Munday</strong></td>
<td>University of Utah</td>
<td>Protein Phosphatase 2A Inhibition Preserves Arterial Function in Obese Mice</td>
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<tr>
<td>1:30</td>
<td><strong>Jeff Mecham</strong></td>
<td>Brigham Young University</td>
<td>Resveratrol as a Chemotherapeutic</td>
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<tr>
<td>1:45</td>
<td><strong>Brianne Palmer</strong></td>
<td>Utah State University</td>
<td>Variance in Stomatal Size and Density between Triploid and Diploid Quaking Aspen (Populus Tremuloides) in Utah</td>
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<tr>
<td>2:00</td>
<td><strong>Scott Newton</strong></td>
<td>Brigham Young University</td>
<td>Ventral Tegmental Area Dopamine and GABA Neurons: Physiological Properties and Expression of mRNA for Endocannabinoid Biosynthetic Enzymes and Type I mGluRs</td>
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<tr>
<td>2:15</td>
<td><strong>Brooke Linney</strong></td>
<td>Brigham Young University</td>
<td>Optimization of the pET9a Vector</td>
</tr>
</tbody>
</table>
Oral Presentations

Oral Session 1 — Holland Room 469
10:30 a.m. -12:30 p.m.

Social and Behavioral Sciences

10:30  Kristine Jolley
       Brigham Young University
       Why Do Action Research as a Teacher? Improving Mathematics Teaching and Learning

10:45  RonJai Staton, Lyndsey Craig, Christy Fiscer, Michelle Hammon,
       Deborah Decker, Zac Olson, Justin Nuckles
       Dixie State University
       I Am What You Make of Me: Pregnancy Experience and Child Development

11:00  Kodey Myers
       Utah State University

11:15  Erika Longino
       University of Utah
       DesignbuildBLUFF: A Framework for Sustainable Development in the Navajo Nation

11:30  Tessa Reber
       Dixie State University
       Music Pedagogy and Teaching Strategies for Students on the Autism Spectrum

11:45  Christine Fiscer, Lyndsey Craig, Michelle Hammon, RonJai Staton, Tina Brough,
       Zachary Olson, Justin Nuckles
       Dixie State University
       Breaking the Taboo: Religious Beliefs, Sexual Literacy, and Sexual Well-Being

12:00  Rachel Schwartz
       Brigham Young University
       Somos Machistas: The Effects of Machismo on Paraguayan Business Practices

12:15  Shayla Miller
       Dixie State University
       Making Thinking Visible Through Models and Representations
Oral Presentations

Oral Session 2 — Holland Room 469
1:00 - 3:00 p.m.

Social and Behavioral Sciences

1:00  Dillon Schmutz  
Dixie State University  
What Factors Drive Parents to Choose an Elementary School for Their Child

1:15  Michael King  
Utah State University  
The Impact of Evidence-Based Parent Education in Organized Youth Sport: A Pilot Study

1:30  Sarah Axtell  
Brigham Young University  
How Skin Whitening is Not a Whitening of the Skin: Ethnographic Research on Female Skin Whitening in Visakhapatnam, India

1:45  Nicolette Parrish  
Dixie State University  
The Struggle of Culture Identity for American Indian Women in Higher Education

2:00  Raschelle Davis  
Dixie State University  
Children’s Misconceptions about Space and What Needs to be Done About It

2:15  Frederic Van de Water  
Dixie State University  
Johnson: Criminally Negligent or Negligently Criminal?

2:30  Braxton Larson  
Dixie State University  
The Intent of Assassination

2:45  Rielee Reed  
Dixie State University  
A Study of the Effect of Imagery and Relaxation on Penalty Kicks
Oral Presentations

Oral Session 1 — Holland Room 493
10:30 a.m. -12:30 p.m.

Engineering and Mathematics

10:30  Jeremy Struk, Camille Brantly, and Brenden Herrod
Brigham Young University
Cardiac Tissue Engineering

10:45  Dan Barfuss
Brigham Young University
Modeling Shale Oil Pyrolysis: Semi-empirical Approach

11:00  Conner Earl
Brigham Young University
In Vitro Cell-Free Synthetic Biology Techniques for Optimizing Protein Yields

11:15  Carlton Reininger
Brigham Young University
A Feasibility Study for Implementing a System of Electric Vehicles into Urban Environments

11:30  Steven Stanley
Brigham Young University
Expanding the Genetic Code through Simultaneous Insertion of Unnatural Amino Acids

11:45  Theo Stoddard-Bennett and Steven Christiansen
Brigham Young University
Retinal Regeneration: Implications of Müller Cell Dedifferentiation

12:00  Benjamin Buttars and Jeffrey Neilson
Brigham Young University
Determining the Integrity of Decellularized Porcine Kidney Scaffolds
Oral Presentations

Oral Session 2 — Holland Room 493
1:00 - 3:00 p.m.

Engineering and Mathematics

1:00  Daniel Gulbrandsen and Christopher Vander Wilt
Utah Valley University
Counting Integer Points in Scaled Polytopes

1:15  Jason Adams, Nathan Jewkes, and Tyrell Vance
Southern Utah University
The Divisibility of $p^n - 1$ for $p > 5$, $p$ a Prime Number

1:30  Nandini Deo
University of Utah
Purification of Air Using Molecular Modeling and Photocatalytic Nano-Materials

1:45  Sergio Arellano and Trent Hannah
Snow College
The Musical Phiquence: Finding Phi in Musical Progressions

2:00  Scott Anjewierden and James Newton
University of Utah
Automated Kinematic Analysis of Prepulse Inhibition Behavior in Larval Zebrafish

2:15  Amy Gifford and Brennon Bauer
Southern Utah University
Study the Stability of Steady Solutions for a Model of Mutualism

2:30  James Newton and Scott Anjewierden
University of Utah
Characterization of the Role of Oxytocin in Larval Zebrafish Behavior

2:45  Hayley Ford
Brigham Young University
Economical Rapid Production of Therapeutic Proteins using Cell-free Protein Synthesis
Oral Presentations

Oral Session 1 — Holland Room 477
10:30 a.m. -12:30 p.m.

Social and Behavioral Sciences

10:30  Tyson Winder  
Dixie State University  
The Influence of Social Networking Sites on the Family

10:45  Samantha Chandler  
Brigham Young University  
The Effects of Adolescent Substance Use on Family Dynamics

11:00  Sydney Willis  
University of Utah  
Culturally Cumulative Family Planning Curriculum for Refugee Communities in the United States

11:15  Lyndsey Craig, Zachary Olson, Michelle Hammon, RonJai Staton, Tina Brough, Deborah Decker, and Justin Nuckles  
Dixie State University  
Sowing the Seeds of Love: The Importance of Adult Romantic Attachment for Pregnancy and Child Development

11:30  Jessica Andrus  
Brigham Young University  
Formalizing Culture and Formal Education

11:45  Madeleine Clark  
University of Utah  
Changing Diet among the Congolese Refugee Population: Implications for Health and Social Integration

12:00  Skyler Williams  
Dixie State University  
Openness to Experience with Stress and Well-Being

12:15  Thomas White and Jason Woodruff  
Brigham Young University  
Self-reported Reasons for Motivation to Exercise and Association with Mental Health
Oral Presentations

Oral Session 2 — Holland Room 477
1:00 - 3:00 p.m.

Social and Behavioral Sciences

1:00  Zachary Olson, Michelle Hammon, Lyndsey Craig, RonJai Staton, Tina Brough, Deborah Decker Justin Nuckles
Dixie State University
Sexual Literacy, Pornography, Body Image: It All Comes Together

1:15  Michelle Hammon, Lyndsey Craig, RonJai Staton, Christy Fiscer, Tina Brough, Deborah Decker, Justin Nuckles
Dixie State University
Attitude is Everything: Relationship Expectations, Sexual Attitudes, Literacy, and Behavior

1:30  Anthony King
Weber State University
Behaviors, Motivations, Beliefs, and Attitudes Related to Bottled Water Usage At Weber State University

1:45  Sarah Webb
Brigham Young University
Mind over Mannerisms: A Study on Multi-linguals, Gesture, and Personhood

2:00  Alexandra Butler
University of Utah
Utah’s Sex Education Controversy: Is It Relevant Today?

2:15  Alexis Ross
Utah Valley University
Exploring the Modes through which the Wee Care Center Impacts Student Success at Utah Valley University

2:30  Stephan Morris
Brigham Young University
Referential Worlds: Concepts of Selfhood and Social Context among Telugu Transnational Families
Oral Presentations

Oral Session 1 — Holland Room 325
10:30 a.m. - 12:30 p.m.

Fine Arts and Humanities

10:30  Jacob Oscarson  
Dixie State University  
Ho Chi Minh Friend or Foe?: New Revelations from the Pentagon Papers

10:45  Aaron E. Palmer  
Dixie State University  
How Video Games Revolutionize Storytelling: The Uniqueness of Gaming Mechanics, Buttons, and Analog Sticks

11:00  Sam Katz  
University of Utah  
Tom Stockham: The Father of Digital Audio Recording

11:15  Missy Jessop  
Dixie State University  
The Desert as an Objective Correlative: A Creative Writer’s Perspective

11:30  Jordan Kerns  
Dixie State University  
Blood Lines: Flash Narrative Technique and Creative Nonfiction

11:45  Keiran Presland  
Dixie State University  
Blood and Ink

12:00  Rachel Sharich  
Dixie State University  
To Kill a Rooster
Oral Presentations

Oral Session 2 — Holland Room 325
1:00 - 3:00 p.m.

Fine Arts and Humanities

1:00  Christian Riehle
      University of Utah
      Arab Secession in Seventh Century Syria-Palestine

1:15  Thomas Aguila
      University of Utah
      A Tide Just West: An Artist Book of Écriture Féminine, Photography, and
      New Narrative

1:30  Samantha Falde
      University of Utah
      Kalashnikov Enculturation: The Soviet Contribution to Small Arms Proliferation
      and the Disintegration of the Non-State Threshold

1:45  Wendy Stabler
      Dixie State University
      Traumatic Brain Injury: An Argument for Awareness

2:00  Jocelyn Waite
      Utah Valley University
      Visceral Impact

2:15  Jules Penham
      University of Utah
      Poemage: Visualization of Sonic Elements in Poetry

2:30  Whitney Collins
      Utah Valley University
      Axis Dance Company and Perceptions of Disability
Oral Presentations

Oral Session 1 — Holland Room 430
10:30 a.m. -12:30 p.m.

Business and Communication

10:30 Erin Olschewski
University of Utah
C is for Carrots, Community Gardens, and Co-ops: A Thematic Analysis of the Ways Sesame Street Approaches Nutrition, Sustainability, and Social Justice

10:45 Monika Aldred
Dixie State University
Effective Uses of Job Descriptions within an Organization

11:00 Duncan Stewart
University of Utah
A Tale of Two Cities: Spatial Rhetorics, Homeless Exclusion and Salt Lake City’s Housing First Initiative

11:15 Skyler Hunt
Dixie State University
Frozen and the Exigence of Identity

11:30 Chet Norman
Dixie State University
Connecting Alumni Past, Present, and Future

11:45 Michael Nagy
Dixie State University
Comedic Constructions of Heroes in the Work of Mike Myers

12:00 Wonjin Kim
Weber State University
The Relationship between Trade Balance, Income and Real Exchange Rate

12:15 Brock Griffith
Dixie State University
Bridging the GAAP between Accounting Education and Practice
Oral Presentations

Oral Session 2 — Holland Room 430
1:00 - 3:00 p.m.

Business and Communication

1:00  Spencer Robb
      Dixie State University
      An Uncertainty Management Theory and Strategic Planning Perspective on Mitigating Ebola Pandemic Anxiety

1:15  Samantha Tommer
      Dixie State University
      Media Coverage of Court Proceedings Influence Social Stigma

1:30  Josh Groves
      Utah Valley University
      Using Eye-Tracking to Understand Professional First Impressions in a Personal Selling Context

1:45  Qiheng Wu
      Weber State University
      Inflation and Unemployment in Greece

2:00  Michael Jurgensmeier
      Dixie State University
      Bold Talk for a One-Eyed Fat Man: The Importance of Classic Western Literature in the Contemporary Classroom

2:15  Savanna Bohnet
      University of Utah
      International Teaching Assistant Accent Adaptation Study

2:30  Ty Palmer
      Utah Valley University
      Productive Personality Types in the Workplace
Oral Presentations

Oral Session 1 — Holland Room 471
10:30 a.m. -12:30 p.m.

Fine Arts and Humanities

10:30  Ashley Smith  
Brigham Young University  
Attitudes Towards Cross-caste Marriage in Visakhapatnam, India

10:45  Daniel Cox  
Dixie State University  
Attribution-based Training for Evidence-based Practices: Reducing Recidivism through Organizational Change

11:00  Natasha Mickelson  
Brigham Young University  
Religion in Young Adult Contemporary Realistic Fiction

11:15  Andy Mickelson  
Brigham Young University  

11:30  Rose Hutchins  
Utah Valley University  
Political Implications of the Ballet Giselle

11:45  Latrisa Garcia  
Dixie State University  
Cell Phone Use and Perception of Crime on Campus

12:00  Miranda Roland  
Southern Utah University  
Beneficial Medical Service and Surveys in Nicaragua
Oral Presentations

Oral Session 2 — Holland Room 471
1:00 - 3:00 p.m.

Fine Arts and Humanities

1:00  Amanda Salgado
      Weber State University
      The Triple Discrimination of Indigenous Mayan Women Today

1:15  Conor Hilton
      Brigham Young University
      The Treacherous Narrator of Henry James’ Washington Square

1:30  Marcos Camargo
      Dixie State University
      Yellow Monster in the Heart of Diné’ tah: Uranium Profit-Teering and the Poisoning of the Navajo Homeland

1:45  Brittany Ricks
      Brigham Young University
      Frankfurt on Personhood and Human Rights

2:00  Kelly O’Neill
      University of Utah
      Bifurcate: Intersections and Photography

2:15  Kelsey Jetter
      Dixie State University
      The “B” in LGBTQ

2:30  Steven Saline
      Dixie State University
      Mainstreaming EDM
Oral Presentations

Oral Session 1—Holland Room 476
10:30 a.m. - 12:30 p.m.

Health Sciences

10:30
Diana Carter
Brigham Young University
Accuracy of Blood and Fluid Loss Estimation: A Comparison among Healthcare Team Members

10:45
Matz Indergard
Southern Utah University
Dispersal of Fairy Shrimp Eggs through Wind and Runoff

11:00
Delena Hanson
Dixie State University
The Contribution of Patient Size and Backscatter to Dose in Diagnostic Imaging

11:15
Cody Craig
Snow College
Are We as Healthy as We Should Be? A Comparison of Income and Diseases of Affluence

11:30
Tianne Pierce
Utah Valley University
HiFidelity Simulation in Nursing Lab

11:45
Abigail Harris
Brigham Young University
Russian Student Nurses Collaboration: A Learning Adventure

12:00
Daisha Cummins
Utah State University
Hysteresis and Motor Planning in Children with Autism Spectrum Disorder

12:15
John Rossi
Brigham Young University
The Effects of Sexual Assault on Memory and Consciousness: A Retrospective Chart Review
Oral Presentations

Oral Session 2 — Holland Room 476
1:00 - 3:00 p.m.

Health Sciences

1:00  Ashley Havlicak  
      University of Utah  
      Developmental Testing in a Lamb Model

1:15  Kalene Mears  
      Brigham Young University  
      Learning History: Understanding Organizational Learning in a Hospital

1:30  Jamie Slade  
      Utah Valley University  
      Electronic Cigarettes

1:45  Erika Brown  
      Brigham Young University  
      Understanding the Importance of Intraosseous Therapy

2:00  Whittni O’Brien  
      Dixie State University  
      A Pollution Solution: Indoor Air Quality of St. George, Utah

2:15  Ashley Havlicak  
      University of Utah  
      Ontogeny of Histone Covalent Modifications in the Brain of Lambs
Oral Presentations

Oral Session 1 — Holland Room 340
10:30 a.m. -12:30 p.m.

Physical Sciences

10:30  Mattie Jones  
Dixie State University  
Analytical Chemistry Applications for Ionic Liquids as Novel Solvents

10:45  Madeline Parson  
Southern Utah University  
Patterning Supported Lipid Bilayers with Magnetic Tweezers

11:00  David Sutterfield  
Utah Valley University  
Geophysical Survey of Gossans in the Eastern Uinta Mountains, Utah

11:15  Zachary Coffman  
Utah Valley University  
Measuring the Effect of Breast Density on High Frequency Ultrasound using Tissue Phantoms

11:30  Jeremiah Rundall  
Utah Valley University  
Toward a New Classification of Rivers based upon Generic Stage-Discharge Rating Curves

11:45  Cameran Mecham  
Utah Valley University  
Monitoring Angiogenesis in Early Chick Development Using High-Frequency Ultrasound: Method Development and Preliminary Results

12:00  Nicole Cowan  
Utah Valley University  
Peak Density and Attenuation as Complementary Parameters for Differentiating Breast Tissue Pathology

12:15  Michael Kutschke and Niccolo Fiorentino  
University of Utah  
Hip Joint Center Differences Between Dual Fluoroscopy, Functional Hip, and Coda: Establishing A Reference Standard
## Oral Presentations

### Oral Session 2 — Holland Room 340
1:00 - 3:00 p.m.

**Physical Sciences**

<table>
<thead>
<tr>
<th>Time</th>
<th>Name</th>
<th>Affiliation</th>
<th>Title</th>
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<tbody>
<tr>
<td>1:00</td>
<td>Michelle Cadet</td>
<td>Utah Valley University</td>
<td>High-Frequency Ultrasonic Measurement of Angiogenesis in Mice with Breast Tumors and Ligated Femoral Arteries</td>
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<tr>
<td>1:15</td>
<td>Tim Beach</td>
<td>Utah State University</td>
<td>Spatially Understanding Utah’s Water Resources: A Story Told through Maps</td>
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<tr>
<td>1:30</td>
<td>Caitlin Carter</td>
<td>Utah Valley University</td>
<td>High-Frequency Ultrasound (10-120 MHz) for the Rapid Molecular Subtyping of Breast Cancer Cell Lines</td>
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<tr>
<td>1:45</td>
<td>Amy Fairbrother</td>
<td>Utah Valley University</td>
<td>High-Frequency Ultrasound (20-80 MHz) for Analyzing Breast Cancer Surgical Margins: A 73-Patient Clinical Study</td>
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<tr>
<td>2:00</td>
<td>Ashley Ostraff</td>
<td>Utah Valley University</td>
<td>A Comparative Study on the Uptake of Nutrients and Trace Metals of Two Plant Subspecies (P.australis and P.americanus) in Utah Lake</td>
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<tr>
<td>2:15</td>
<td>Henintsoa Rakotoarisaona</td>
<td>Utah Valley University</td>
<td>Mobility and Distribution of Trace Element Pollution in Sediments of the Utah Lake Outlet</td>
</tr>
<tr>
<td>2:30</td>
<td>Robyn Omer</td>
<td>Utah Valley University</td>
<td>Peak Density Histograms and Pathology Interpretations for High-frequency Ultrasonic Testing of Breast Cancer Surgical Specimens</td>
</tr>
<tr>
<td>2:45</td>
<td>Ashleigh Wilson</td>
<td>Utah Valley University</td>
<td>Developing a Low-Cost NIR Imaging System to Introduce Students to Medical Imaging Techniques</td>
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