

**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

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

## Keynote Speaker: Dr. Lincoln Nadauld



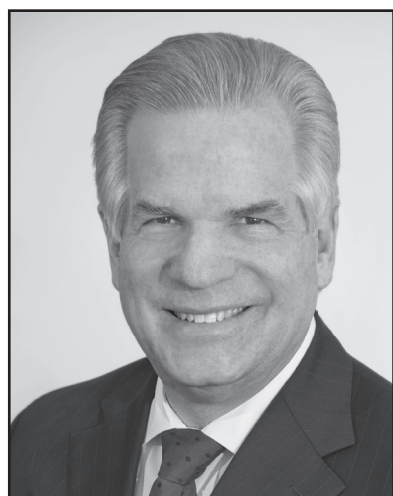
**Gardner Center Ballroom A**

**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

#### Health

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

#### 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

#### 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
21. Kara Henrie, U of U
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. Kirsi 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 Streng, U of U
33. Darren Ott,  
Alex Henderson,  
Evan Bodgen,  
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

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## 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

#### Engineering

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

#### Health

12. Trey Esplin,  
Artis Grady,  
Jonathan Conley,  
Sean Kiesel,  
Kaisey 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

#### 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

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## 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  $\beta$ -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 Kylynn 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**

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



## 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  
How Autism Spectrum Disorder Affects Action Preparation in Children: A Look at Reaction Time in a Joint Reaction Task
- 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  
An Improbable Inn: Texts and Traditions Surrounding Luke 2:7
- 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 Profiteering 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**      **Whitni 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**

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