

SCHEDULE OF EVENTS
Simpson Symposium 2019
Honoring Excellence in Research and Creativity

Morning Schedule:

8:00-9:00 A.M. – Breakfast and Registration. Kent Campus Center, Black Box (Main Level)

All are invited. Presenters must check in to get programs and lanyards, to put up posters if necessary, and to confirm final schedules.

9:00-10:00 A.M. – Concurrent Oral Presentations and Performances I

Climate Concerns & Environmental Matters. Dunn Library, Craven Room

- Rachel Riley, *Being Anthropocentric, Becoming Naturalistic: Ontological Implications for Climate Change*
- Sydney Samples, *byePhone: Environmental, Political, and Social Ramifications of Exporting our E-Waste to China*
- Molly Fisher & Dr. Thomas Rosburg, *South-central Iowa seed banks: A comparison between recently restored, low diversity restored and remnant prairies*

Moderator – Steve Duffy

Evaluators – Cal Busby

War, Peace & Power. Carver Science, Room 205

- Amir Suljic, *Al Fatiha: The Significance of Islam on Indian Muslim Soldiers During the First World War*
- ~~Elizabeth Nixon, *Britain and the Armenian Genocide*~~
- Amir Suljic, *Nema Mira: Yearning for Prosperity Within a Democratic Bosnia and Herzegovina*
- Danielle Bates, *The Political Power of the Vatican in International Affairs*

Moderator – Seth Andersen

Evaluator – Justin Nostrala

Mathematics and Data in Education. Blank Performing Arts Center (BPAC), Room 201

- Lydia Magalhaes, *Teaching Proof Writing Through Crochet*
- Nicole Ward & Della Matos Hernandez, *Comparative Analysis of School-Wide Programming in Des Moines*
- Trey Thompson, *Bellringers and their effectiveness in student learning*

Moderator – Lynne Jensen

Evaluator – Todd Little

Questions of Physics and Biology. Cowles Center, Room 171

- Kristina Smith, *Quantum Chromodynamics on the Lattice*
- Margaret Flowers, Nanci Ross, Deserre Johnson, Patrick Wilson, & Mirabai Moseley, *Floral Morphology and Sex Expression in the food of the gods *Diospyros virginiana*, *American persimmon**
- Michael Jacob Hite, *Asymmetry of the Universe through Leptogenesis*

Moderator – Ryan Rehmeier

Evaluator – Jacy Downey

Class Panel: Acting for Change. Carver Science, Room 231

- Caitlyn Berkey, Casey Dorhout, Tyler Dredge, Tonya Greve, Claire Johnson, Kelsey Keenan, Melissa Miller, David Moissonnier, Ben Sebastian, Taylor Sudmann, Nicole Ward, Cody Bell, Tatum Clayburn, Spencer Davis, Kate Derrick, Chastain Evans, Lisa-Marie Fricke, Alexa Kinkade, Brennen Lemke, Kyle Makar, Dev Patel, Jade Thompson & Guadalupe Valladares

Moderator – Patti Woodward-Young

Volunteers current as of the morning of 4/23/19

Class Panel: George Washington Carver Fellows Research. *Cowles Center, Room 173*

- Heidi Ekborg-Ott, Maxie Saceda-Hurt, and Kathryn Velasquez

Moderator – Carolyn Dallinger

Class Panel: Advanced Research in Psychology Part I. *Mary Berry Hall, Room 120*

- Ethan Woodruff, Kaitlyn Klommmhaus, Katarina Moore, Mariah Clark, Melissa Ward, Paige Bendt, & Paige Rader

Moderator – Sal Meyers

Class Panel: The Case for Interfaith. *Carver Science, Room 215*

- Lauren Hastie, Val Wilson, Vincent Lloyd, Bailey Peterson & Tyler Jacobs

Moderator – Maeve Callan

Class Panel: Business Model Canvas: Using innovative entrepreneurial experiments to discover ideas and solve problems. *Dunn Library, Edwards Center*

- Andrew Bowles, Vaughn Brasseaux, Trey Byers, Mackenzie Clayton, Reid Cobb, Tom Hol, Todd Kale, Jessie McElderry & Katrina Sieck

Moderator – John Walker

Class Panel: Globalization and Social Justice in BRICS. *McNeil, Room 111 Pioneer*

- Brenna Yeutsy, Katie Mitchell, Lauren Mahlberg, Abby Loecke, Helena Laster, Alex Hawthorne, Edward Halbur & Kate Derrick

Moderator – Ali Madanipour

10:15-11:15 A.M. – Concurrent Oral Presentations and Performances II

Gender Justice. *Dunn Library, Craven Room*

- Liz Nimmo, *A Call for an Intersectional Theory of Metrocentrism*
- Morgan Johnson, *Mother and Daughters' How Did We End Up Here?*
- Elise Tauer, Katrina Sieck & Guadalupe Valladares, *Enough is Enough*

Moderator – Steve Duffy

Evaluators – CoryAnne Harrigan

Math & Mathematicians. *Carver Science, Room 215*

- Jacob Irwin, *Rubik's Magic: The Mathematical Wonders of the Magic Cube*
- Malia Jansen, *Classifying Diagonal Knots*
- Addison Grant, *Madness of Mathematics*

Moderator – Lynne Jensen

Evaluator – Amy Gieseke

Electoral Politics. *Blank Performing Arts Center (BPAC), Room 201*

- Zoe Seiler, *What's the Point: Do the Des Moines Register's Presidential Endorsements Impact Voters?*
- Mary Wood, *The Social Media Race: How Social Media has impacted the Presidential Election*
- Sarah Baker, *Gerrymandering the Electoral College; Expanding the Nebraska and Maine Model*

Moderator – Seth Andersen

Evaluator – Heidi Levine

Class Panel: Advanced Research in Psychology Part II. *Mary Berry, Room 120*

- Ethan Woodruff, Kaitlyn Klommmhaus, Katarina Moore, Mariah Clark, Melissa Ward, Paige Bendt Paige Rader

Moderator – Sal Meyers

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Class Panel: Building Capacity for HSL capstone internships. *McNeil, Room 111 Pioneer*

- Anna Herrmann, Tyler Unruh, Pierce Carey, Reagan Sesker, Annyka Morris, Madi Paulson, Ryan Morgan, and Sarah Skladzien

Moderator – Jacy Downey

Class Panel: Choking on Plastic: Looking for Solutions. *Carver Science, Room 231*

- Reza Dad Mohammadi, Sydney Alt, Michael Roets, Michael McGee, Triniti Kraus, Heidi Ekborg-Ott, Mackenzie Ritscher, Natasha Shipp, and Carter Fricke

Moderator – Jan Everhart

Class Panel: Maple Tree Marketplace. *Carver Science, Room 205*

- Luke Sarver, Madi Paulsen, Miranda Plowman, Jonathan Steinkruger, Madison Rasmussen, Madison Koonce, Megan Waldbillig, Rhett Murphy, Vaughn Brasseaux, and Mackenzie James

Moderator – Marilyn Mueller

Class Panel: Senior Capstones for Sport Science & Health Education Majors. *Cowles Center, Room 171*

- Ashley Allen, Logan Egeland, Chase Erickson, Gable Johnson, Prince Krah, Kelsa Berkland, Jacob Becker & Shelby Hunemiller

Moderators – Jon Nachtigal and Katie Smith

Class Panel: Speech Performances. *Cowles Center, Room 173*

- Kylie Burmeister, Eimear Fanthorpe, Melanie Gillet, Lydia Magalhaes & Belle Ward

Moderator – Deano Pape

Class Panel: STEM Competition Showcase. *Dunn Library, Edwards Center*

- Emily King, Mason Remington, Eli Marriott, Michael Roets, Max Folkers, Mackenzie Finnegan, Andrea Van Wyk, Leslie Decker, Jacob Austin, Scott Odeiro, Blake Dalmas, Kaylee Grabarkewitz, Kade Tatkenhorst, Denver Hargrove, Cole Jacobsen, Hannah Anderson, Benjamin Harrison, Emilie Hulse, Samantha Wuebker, Daniel Goldsmith, Hannahlynn Heinen, Amanda Stadlander, Ethan Woodruff, Andre Flatt, Galen Gist, Carley Irlmeier Ellen Willhoit, & Drew Roen

Moderator – Ross Sweet

11:15 A.M.-12:30 P.M. – Senior Art Reception. *Mary Berry Hall, Farnham Gallery (Third Floor)*

Students majoring in visual arts at Simpson College specialize in drawing, painting, photography, and graphic design. The major is capped by a personalized senior project and art show prior to graduation. Each year, the Senior Exhibit opens in April and remains on display through graduation day in Simpson's Farnham Galleries. The 2019 exhibit is the culmination of the students' undergraduate art study, featuring works created during the fall semester of their senior year. The exhibit features a variety of media and art techniques, chosen by the student.

11:30 A.M.-12:30 P.M. – Lunch Break.

Afternoon Schedule:

12:30-1:30 P.M. – Keynote Address. *Kent Campus Center, Hubbell Hall (Second Floor)*

Dr. Kristina Medina-Vilariño, Department of Romance Languages at St. Olaf College

She will discuss research on “Rebuscar (re-search) on pedagogy of civic engagement in Caribbean and Latin studies.”

1:45-2:45 P.M. – Concurrent Oral Presentations and Performances III

(G)local Economics. *Dunn Library, Craven Room*

- Tim Palese, *Desolation on the Wind: How Rural Peasants Understood Great Leap Forward** CHANGED ORDER*
- Rhett Murphy, *Economic Development for the City of Mount Ayr*
- Sara Lawson & Ben Christensen, *Minimizing the Risk of Stock-Out at Koppers, Inc.*

Moderator – Steve Duffy & Evaluator – Paul Craven

Volunteers current as of the morning of 4/23/19

Capitalism and Consumption. Carver Science, Room 205

- Amelia Schafer, *Made of Money: How Advertisers Use Money to Control the Media*
- Devon Veach, *Consumers: Their Own Best Friend or Worst Nightmare?*
- Jaycie Owens, *Tariffs & Twitter: The Federal Open Market Committee, Trump, and the Stock Market*

Moderator – Gowun Park

Evaluator – Amy Gieseke

Symbols & Systems of Belief. Cowles Center, Room 173

- Bailey Creed McMillan, *A Critique of Fundamental Beliefs*
- Lewis Cox, *1st Corinthians 12: Unity in the 21st Century Church*
- Val Wilson, *Reclaiming the Serpent*

Moderator – Lynne Jensen

Evaluator – Heidi Levine

Mental, Behavioral and Physical Health. Dunn Library, Edwards Center

- Kylie Douplik, *Living an Incredible Life: A presentation and discussion on invisible and chronic illness*
- Samantha Wuebker & Miriam McDonough, *Effect of Alcohol on Ocular Development in Danio rerio*
- Ashley Partee, *Depression: An Alternative Approach*

Moderator – Jackie Brittingham

Evaluator – Nicci Whalen

Stories & Standpoints. Cowles Center, Room 171

- Faithyna A Leonard, *A Story Through Poetry*
- Mary Wood, *Redefining the Female Bildungsroman: Cultural Differences Between Jane Eyre and Wide Sargasso Sea*
- Michael Roets, *The Worlds We Inhabit: A Collection*

Moderator – CoryAnne Harrigan

Evaluator – Ann Woldt

U.S. Politics. Carver Science, Room 215

- Amelia Richards, *Kavanaugh and Thomas: a comparison of two hearings*
- Cayce Good, *What has Trump done? The Future of the GOP*
- Kathryn Joelle Hays, *Effects of Disinformation Campaigns on Varying Electoral Systems*

Moderator – Justin Nostrala

Evaluator – Seth Andersen

Class Panel: Simpson College During the First World War. McNeil, Room 111 Pioneer *START APPROX 2:05pm

- Abby Anctil, Jordan Baldwin, Jimmy Camp, Karrecia Crawley, Kenyon Draper, Emmy Farrell, Wade Gibson, Melanie Gillet, Collin Lowry, Eli Marriott, Questen McFarland, Elliott Meyer, Madeline Schulenberg, Josiah Sutton, Geoffrey VanDeusen, Jordan Yawn & Joe Meyer

Moderator – Judy Walden

Class Panel: The Human Figure, Art, and You. Great Hall, Second Floor of Pfeiffer Dining Hall

- Sydney Alt, Jacob Becker, Paula Carlson, Olivia Curtis, Bailey Earls, Olivia Erickson, Carter Fricke, Kelli Hanson, Taylor Hoffman, Blake Kakacek, Gizzy Keeler, Meara Moore, Laura Nielsen, Benjamin Rupe, Elise Sturgeon & Isabelle Ward

Moderator – Bob Kling

Class Panel: What is the future of the hundreds of Iowa small towns? Carver Science, Room 231

- Austin Hronich, Randy Paulson, Zoe Seiler, Taylor Bates, Dustin Teays & Emily Carey

Moderator – Mark Siebert

Volunteers current as of the morning of 4/23/19

3:00-4:00 P.M. – Poster Session & Hors d'oeuvre Reception. Kent Campus Center, Black Box Theater

1. Adeniyi Sam & George Saucedo, *Penetration Testing and Security Scanning for ISO 27001 Compliance Certification*
Evaluators- Paul Craven & Beth Beggs
2. Anderson Hannah, Alex Millan, Meara Moore, & Breanna Waugh, *Motor Unit Recruitment in an Inactive Limb using Mirror Therapy*
Evaluators- Cal Busby & Aswati Subramanian
3. Austin Jacob & Zach Kreider, *Measurement of Inelastic Collision Cross-Sections in Rubidium-Argon*
Evaluators- Rose Sweet & Patti Woodward-Young
4. Becker Jacob, Shelby Hunemiller, Cam Bunting, & Maura Chadwick, *Effect of Walking Workstations on Memory and Comprehension Compared to Seated Study*
Evaluators- Ryan Rehmerier & Clint Meyer
5. Bergman Cassie, Cole Sigler & Harrison Smith, *Ecosystem Conservation in Warren County*
Evaluators- Clint Meyer & John Pauley
6. Block Genevieve & Oleg Nochvay, *Chicago Crime Analysis for Insurance Risk Assessment*
Evaluators- Deano Pape & Kedron Bardwell
7. Boardman Noeline, *Sound Design for FSP 2018*
Evaluators- Heather Lesieur & Beth Beggs
8. Boten Maslin, *Silent Sky Stage Management*
Evaluators- Becky Hastie & Beth Beggs
9. Bowles Andrew, *How does the Federal Open Market Committee meeting effect the S&P 500?*
Evaluators- Gowun Park & Kedron Bardwell
10. Braun Landon, *Does Mental Toughness Equate to High Performance?*
Evaluators- Carolyn Dallinger & Mark Brodie
11. Bucklin Katherine, *Rodent Task Switching between Different Sensory Modalities*
Evaluators- Ryan Rehmerier & Beth Beggs
12. Castelan Jorge, *Analysis of a long equity position in the medium run?*
Evaluators- Gowun Park & Beth Beggs
13. Ciesielski Michael Eugene, *Assistant Director - "Silent Sky"*
Evaluators- Becky Hastie & Beth Beggs
14. Dean Katie, *Production Stage Manager for FSP 2018*
Evaluators- Heather Lesieur & Beth Beggs
15. Finnegan Mackenzie, *Topological Data Analysis and Persistent Homology to show spacial Sorting in Animal Groups*
Evaluators- Clint Meyer & John Pauley
16. Flatt Andre, *Role of polyglycylation of tubulin in movement of oral cilia in Tetrahymena thermophila*
Evaluators- Jackie Brittingham & Beth Beggs
17. Fleddermann Emma, *Back Off, Buddy: Increased Courtship Behavior, Mate Guarding, and Deception in the Trinidadian Guppy, Poecilia reticulata*
Evaluators- Beth Beggs & Sal Meyers

Volunteers current as of the morning of 4/23/19

18. Flowers Margaret, *Pan Trapping Biases on Abundance and Body Size of Captured Bees*
Evaluators- Clint Meyer & John Pauley
19. Geronzin Alayna, *The Effects of State Boredom on Attention*
Evaluators- Clint Meyer & Sal Meyers
20. Gillet Melanie & Steve McLean, *Silent Sky Properties Design*
Evaluators- Becky Hastie & Beth Beggs
21. Goldsmith David, *The Effect of Background Noise Magnitude on Reading Comprehension*
Evaluators- Carolyn Dallinger & Sharon Jensen
22. Gordon Livie, *25th Annual Putnam County Spelling Bee Properties*
Evaluators- Sharon Jensen & Heather Lesieur
23. Grabarkewitz Kaylee, *Purification of promiscuous cyclic AMP receptor protein for subsequent investigation of single molecule interactions with DNA*
Evaluators- Aswati Subramanian & Patti Woodward-Young
24. Grant Addison, *Dramaturgy for Titus Andronicus*
Evaluators- Carolyn Dallinger & Jennifer Nostrala
25. Grose Caleb, Ben Harrison, Alex Henrich, & Hannah Button, *Effect of Meal Temperature on the Frequency of Gastric Myoelectrical Activity*
Evaluators- Beth Beggs & Aswati Subramanian
26. Hartman Katrina, *Evolution of ELISA: Nanoparticle-based Immunoassay for Protein Detection*
Evaluators- Mark Brodie & Patti Woodward-Young
27. Heinen Hannahlynn, Ethan Woodruff, Amanda Stadtlander, * Makynze Davies, *Effect of Dive Reflect on Gastric Motility*
Evaluators- Carolyn Brodie & Justin Nostrala
28. Jansen Tanner, Kenton Thoms, & Parker Schenk, *The Effects of Exercise on Male and Female Vital Lung Capacity*
Evaluators- Jennifer Nostrala & Cal Busby
29. Kaus Audrey, *Costumes Hair and Makeup Design for Silent Sky*
Evaluators- Beth Beggs & Ross Sweet
30. Lowry Collin & Jake Dotterer, *The Negative Affects Trade Wars Have on U.S. GDP*
Evaluators- Gowun Park & Deano Pape
31. Moore Katarina, *Improving Iowa's Mental Healthcare System*
Evaluators- Carolyn Dallinger & Heidi Levine
32. Murphy Zoe, *Costume Design for Festival of Short Plays: Politics and Protest - Hurt and Existence*
Evaluators- Sal Meyers & Beth Beggs
33. Mussig Thomas, *Nigerian poverty and inequality: A futile economic trap?*
Evaluators- Gowun Park & Deano Pape
34. Nimmo Liz, *Dad's Not Home, Leave a Message: The Argument for Paid Parental Leave in the United States*
Evaluators- Carolyn Dallinger & Ann Woldt

Volunteers current as of the morning of 4/23/19

35. Owings Brendan, Madie Bacon, Kelli Hanson, & J.W. Brittingham, *The effects of lavender and peppermint aromatherapy on the stress response*
Evaluators- Heidi Levine & Kedron Bardwell
36. Rudicil Ling & Taylor Williams, *Multicultural Leadership*
Evaluators- Heidi Levine & Deano Pape
37. Rudicil Ling, *Inequality of public Educational Funding*
Evaluators- Deano Pape & Kedron Bardwell
38. Shrock Aimee, Dani Marquez & Maddie Glascock, *The Effect of Stress on Short-Term Memory*
Evaluators- Jennifer Nostrala & Clint Meyer
39. Sieck Katrina, *FSP18: Politics and Protest Set Design*
Evaluators- Jennifer Nostrala & Sal Meyers
40. Taylor Morgan, Courtney Clark, Caden Ritter, & Jessica Payne, *Contraction of Quadricep Muscles on Motor Neuron Recruitment and Electromyography Activity*
Evaluators- Cal Busby & Justin Nostrala
41. Timm Bailey & Joe Wepler, *What Socio-Economic factors affect Robbery Rates?*
Evaluators- Deano Pape & Kedron Bardwell
42. Tometich Jess, *Priming and the Weapon Focus Effect*
Evaluators- Deano Pape & Katherine Vance
43. Twohey Stephanie, Daniel Goldsmith, Katrina Hartman, & J.W. Brittingham, *Influence of Meditation on Heart Rate (HR) and Skin Conductance (EDA) in Response to Cold Pressor Test*
Evaluators- Ann Woldt & Sharon Jensen
44. Villafuerte Lauren & Manoj Rai, *Simulation of DNA nano-cubes through Mathematica*
Evaluators- Mark Brodie & Katherine Vance
45. Williams Dallas, *Stage Management for Titus Andronicus*
Evaluators- Ann Woldt & Beth Beggs
46. Wilson Val, *Mechanistic Elucidation of Cardiometabolic Syndrome*
Evaluators- Ross Sweet & Justin Nostrala
47. Wyk Andrea Van, *Designing a Quantum Dot General Chemistry Lab*
Evaluators- Mark Brodie & Beth Beggs

4:00-4:15 P.M. – Remarks & Awards. Kent Campus Center, Black Box Theater

Comments:

Circle one: Excellent Good Fair Poor

Results & Conclusions

Student analyzes and presents data appropriately, discusses significance of results, identifies appropriate next-steps. If applicable, student formulates appropriate conclusions that are justifiable based on information presented, links conclusions to research objectives and/or hypothesis, identifies how findings may contribute to the research literature of his/her field.

Student either...
(a) analyzes and presents conclusions appropriately. If applicable, identifies how project may contribute to or advance his/her field. **Or**
(b) presents an original artistic work. If applicable, identifies how project may contribute to or advance his/her field.

Comments:

Circle one: Excellent Good Fair Poor

Delivery/Oral Presentation/Performance

Volunteers current as of the morning of 4/23/19

Student holds attention of entire audience with the use of direct eye contact, speaks with fluctuation in volume and inflection, demonstrates full knowledge of work by answering questions with explanations and elaboration, shows enthusiasm/audience awareness.

Comments:

Circle one: Excellent Good Fair Poor

Overall comments on the work, performance, and/or presentation:

Overall Rating: Excellent Good Fair Poor

Evaluator: _____ Date: _____

Student(s): _____

Simpson College Research & Creativity Symposium: Poster Presentations

N.B.: The criteria provided below are not exhaustive and are intended as guidelines only. Please choose which column/categories best fit the project you are assessing.

Left column: Suggested for projects based in the sciences & social sciences and related fields.

Right column: Suggested for projects based in the arts & humanities and related fields.

Introduction & Background

Volunteers current as of the morning of 4/23/19

Student analyzes and presents data appropriately, discusses significance of results, identifies appropriate next-steps. If applicable, student formulates appropriate conclusions that are justifiable based on information presented, links conclusions to research objectives and/or hypothesis, identifies how findings may contribute to the research literature of their field.

Student analyzes and presents results appropriately and discusses significance of final project. If applicable, identifies how project may contribute to or advance his/her field.

Comments:

Circle one: Excellent Good Fair Poor

Poster Presentation & Discussion

Student presents work in an organized manner that is easy to understand. Overall style of the presentation is effective, poster does not overwhelm viewer, information is concise and logically organized, student answers questions confidently (delivery, eye contact, etc.).

Comments:

Circle one: Excellent Good Fair Poor

Volunteers current as of the morning of 4/23/19

Overall comments on the poster and the poster presentation:

Overall Rating: **Excellent** **Good** **Fair** **Poor**

Evaluator: _____ Date: _____