Undergraduate Research Conference Southwest Minnesota State University

WEDNESDAY, DEC. 1, 2021

Conference Begins at 8:30 a.m.

PROGRAM



16th Annual Undergraduate Research Conference at Southwest Minnesota State University

WELCOME AND KEYNOTE

Zoom Link: https://minnstate.zoom.us/j/98546707508
Password: URC2021

Room Moderator: Dr. Alyssa Anderson

- 8:30 Dr. Ross Wastvedt, SMSU Provost, Opening Remarks
- 8:40Tracy Rosenberg, M.F.A Creative Writing; M.S. Kinesiology and Exercise Science, Educator and Grassland Restorationist Keynote Address: "Life Purpose: How College and Career Leads to One's Calling"

ORAL SESSION A

SMSU Conference Center Upper Level Biology, Environmental Science, Philosophy, and Political Science

10:00Zachary Stute, Philosophy, Hobbes, Machiavelli, and Roblox

10:15	. Ryan Fohrman, Political Science, Causes of Metro vs. Greater Minnesota School Funding Disparities
10:30	.Cory Becker, Political Science, Broadband: Connecting Rural America
10:45	.BREAK
11:00	Dylan Lauer, Political Science, Does Duluth Need the Northern Lights Express?
11:15	Joey Heinen, Biology, The Consistency of Aggression in Madagascar Hissing Cockroaches and its Relation to Body Size
11:30	.Kaytlen Heacock, Environmental Science, The Change in Biota from Edge Effects in a Minnesota Tallgrass Prairie
11:45	Courtney Snyder, Environmental Science, The Effectiveness of Constructed Wetlands in Reducing Nutrients from Crop Tile Drainage in Rural Southwest Minnesota
12:00-1:00	LUNCH BREAK
1:00	.King Saenz and Jackson Vierstraete, Biology, Effects of Fertilized Diluted Feed on <i>Vanessa cardui</i>
1:15	. Mikaela Lawrence, Biology, Abundance and Diversity of

Collembola as a Result of Soil Management Practices

1:30 Mason Johnson and Brandon Parish, Biology, Effect of Audio Stimulation on Avian Feeding Behavior 1:45 Katelynn Urness, MacKenzie Klett, and Mieraf Dagne, Biology, Analysis of Food Preference and Selection Time on Male Betta splendens 2:00 Jason Turner, Alexander Hillesheim, Nicholas Putnam, and King Blanchette, Biology, Efficacy of Essential Oils on Coccinellidae 2:30 BREAK 2:45 Casey Wahl and Alyssa Enevold, Biology, The Effects of Permethrin on Dragonfly Nymph Behavior 3:00 Noah Pankonin, Brandon Parish, and Trust Amitaye, Biology, Effects of Differing Concentrations of Pesticide on Crickets 3:15Regan Truedson and Alexis Freese, Biology, Feeder Preferences and Their Effect on Frequency of Bird Visits 3:30 Regan Truedson and Alexis Freese, Biology, Patterns of Food Aggression and Dominance in Black-capped Chickadees (Poecile atricapillus) 3:45 Bailey Bingen, John Palmer, and Madelynn Singsank, Biology, Autotomy-Induced Stotting Behaviour in Opiliones 4:00 Courtney Snyder, Paige Shwaluk, Madeleine Shwaluk, and Emma Polchow, Biology, Water Quality Assessment of the Redwood River in Southwest Minnesota using Macroinvertebrates as Biological Indicators

ORAL SESSION B

Charter Hall 201

Accounting, Communication Studies, History, Sociology, and Theatre

10:00Alexander Duus, Communication Studies, Panic and Anxiety: A Poetry Program 10:15Jenna Zeug, Communication Studies, Humanity, Liminality, and Ghosts: An Oral Interpretation of "Haunt" by Carmen Maria Machado 10:30 Devyn Halvorson, Communication Studies, Repurposing the Spectacle: A Debordian Analysis of "L'Apres M" 10:45 BREAK

11:15	Domonique McPhail, Communication Studies, Drama/Drama: A Performative Comparison of Sean Grennan's "The Tin Woman"
11:30	Kylie Kessler-Gross, Sociology, Physician-Assisted Suicide
12:00-1:00	LUNCH BREAK
1:15	John Dwire, History, Colonel Henry Clay Lester's Actions at the Battle of Murfreesboro
1:30	Braeden Kluver, History, A Regional and National Examination of the National History Standards
1:45	Rees Lehman, History, Effects of 1980's Farm Crisis on Farmer
2:00	Noah Streed, History, Burial Practices Amidst Spanish Flu
2:15	Cory Becker, History, The Minnesota Massacre of 1978: An Election Like No Other
2:30	BREAK
2:45	Carter Haugrud-Damlo, History, The Impact of Native Boarding Schools
3:00	Ojasope Ale, Theatre, Drag Makeup
3:15	Jennifer Homan, Theatre, Nature Fairy
3:30	Bassam Mian, Accounting, The Impact of The Student Loan Debt
3:45	Mark Ezenezi, Accounting, How To Improve DMCA for Streamers
	VIRTUAL SESSION A
	VIA 700M - 10:00 - 10:45AM

Zoom Link: https://minnstate.zoom.us/j/6699068969

Password: URC2021

Room Moderator: Ruthe Thompson English

10:00Autumn Hess, English, Archetypal Themes in Stephen King's Desperation: Setting, Plots, and Characters

10:15 Melissa Yahr, English, Tara Westover's Transformation: How Educational Standards Changed a Life

10:30 Maggie Biegert, English, Archetypal Analysis of the Farmer

VIRTUAL SESSION B

VIA ZOOM - 1:00 - 2:15PM

Zoom Link: https://minnstate.zoom.us/j/91526117789

Password: URC2021

Room Moderator: Dr. Cindy Aamlid Sociology, Theatre, and Psychology

1:00	Kayla Chester, Sociology, Working for Children
	Morgan Malakowsky, Sociology, The Differences Between Same-Sex and Heterosexual Weddings
1:30	Molly McGough, Sociology, Youth Homelessness
1:45	Elizabeth Zoya, Theatre, The Make-up of the Fae
	Amy Leervig, Psychology, Cognitive Control and Spontaneous Recognition Memory of Distracting Information

STUDENT RECITALS

1:00 - 1:50PM Fine Arts Theatre

Cheyenne Volk Music "Le Violette" from Pirro e Demetrio, Act. III 2

Alexis Christensen, Music, Air

Kevin Totusek, Music, Filibuster

Megan Thooft, Music, "Una donna a quindici anni" from *Cosi Fan Tutti* Act II, Scene 1

Jenna Vick, Music, Srpska igra No. 9 from Funny Marimba Book

POSTER PRESENTATION SESSION A

SMSU Conference Center Lower Level
Posters displayed 8:30AM – 5:00PM
Times shown indicate when authors will be present at the poster

Agribusiness, Biology, Computer Science, Environmental Science, Exercise Science, Hospitality Management, Mathematics, Psychology

1 Ca	issy Platz and Ashley Zwack, Agribusiness Management
Ec	onomic Development in Brazil, 10:30 - 12:00

2......Alexis Freese, Biology, The Potentials and Concerns of
Targeting the Type IV Pili, in Vaccination Against Infectious
Bovine Keratoconjunctivitis (IBK) 9:45-11:15

3	John Palmer, Biology, The Impact of Human-Caused Noise Pollution on Marine Mammals 10:30 - 12:00
4	Alexis Freese, Drake Vlaminck, and Stephen Emrich, Biology, Effect of Soil pH on the Height of Radish Barieties 10:30 - 12:00
5	Noah Pankonin, Brandon Parish, Mary Grace Hinkle, and King Saenz, Biology, Assessing Plant Diversity in the SMSU Restored Prairie, 10:30 - 12:00
6	Abbagail Schotter, Biology, The Effects of Grain-Free Diets and Taurine on Canine Dilated Cardiomyopathy, 1:00-2:30
7	Trust Amitaye, Biology, The Efficacy and Mechanism of Vitamin D in the Treatment and Prevention of Hypertension, 2:30-4:00
8	Katelynn Urness, John Palmer, Courtney Snyder, and Alyssa Enevold, Biology, Comparing Plant Diversity Between a Recent and Older Prairie Restoration at Camden State Park, 2:30-4:00
9	David Adigun, Computer Science, Online Store Application, 9:45-11:15
10	Suman Baniya, Computer Science, See-Me, 9:45-11:15
11	Camden Barta, Computer Science, Web Application for North Dakota Heritage Party, 10:30 - 12:00
12	Deepak Karki, Computer Science, Kathmandu Real State, 1:00-2:30
13	Seanan Sweeney and Gwendolen Sior, Computer Science, Robot Controls, 1:00-2:30
14	Courtney Snyder, Environmental Science, Mapping and Quantifying Bird Window Strikes at the SMSU Campus, 9:45-11:15
15	Ivan Carrillo, Cesar Carrillo, and Cooper Martens, Exercise Science, Effects of Intermittent Fasting on 100yds Swimming Time and Diving Distance in Collegiate Female Swimmers, 9:45-11:15
16	Jenna Borchers, Olivia Drummer, Lauren Klein, and Bryan Peralta Garces, Exercise Science, The Difference in Reaction Time Between Division II Women's Basketball Players and Softball Players, 10:30 - 12:00

17 Daniel Jonah, Steven Nava, and Marshawn Reese, Exercise Science, The Effects of Active and Passive Rehearsal on Field Reaction Time in College Football Athletes, 1:00-2:30 18 Kendra Movars, Ethan Goldman, and Teresa Tynio. Hospitality Management, Examining Student's Experience and their Satisfaction on the 2021 Southwest Minnesota State University Homecoming Events, 9:45-11:15 19......Jill Remmele, Sara Pistello, and Lenna Ribar, Hospitality Management, Measuring Southwest Minnesota State University Student Satisfaction of Chartwells Residential Dining, 10:30 - 12:00 20 Deepak Sharma, Mathematics, Approximate Solutions of Nonlinear Algebraic Systems using Power Series Method, 9:45-11:15 21......Robert Shields, Mathematics, The Incompleteness of Mathematics, 9:45-11:15 22 Alexandrea Samuelson, Mathematics, Solving Sudoku with Mathematical Methods, 1:00-2:30 23Olivia Drummer, Katelyn Johnson, Joy Krosschell, and Madelyn Wade, Psychology, Cognitive Control Affects Memory for Distracting Information, 10:30 - 12:00 24Courtney Hedeen, Julianne Pankow, Isabella Rickmyer, and Abigail Satterlee, Psychology, Cognitive Control and Spontaneous Recognition Memory of Distracting Information,

25Gracie Lenz and Madelyn Wade, Psychology, Pessimistic Vs.

Optimistic COVID-19 Outlook: Effects on Meaning in Life,

1:00-2:30

1:00-2:30

POSTER PRESENTATION SESSION B

SMSU Student Center Upper Level (SC 216)
Posters displayed 8:30AM – 5:00PM
Times shown indicate when authors will be present at the poster
Communication Studies, History, Music, Philosophy,
Political Science, and Theatre

26	Sarah Spieker, Communication Studies, SMSU Student Performance Anxiety: Public Speaking vs. Musical Perfomances, 9:45-11:15
27	Rylie Brown, Communication Studies, Are Female Athletes Treated Differently Than Male Athletes? 10:30 - 12:00
28	Morgan Johnson, Communication Studies, Press Secretary Non-Verbals, 10:30 - 12:00
29	Hanna Vos, Communication Studies, Nonverbal Immediacy Behavior of YouTubers, 1:00-2:30
30	Darren Winkelman, Communication Studies, The Suspense of the Prehistoric: Jurassic Park, 1:00-2:30
31	Kristen Neumann and Devyn Halvorson, Communication Studies, Impression Management Via Personal Appearance of Univeristy Faculty Who Identify as Women, 1:00-2:30
32	Adihia Bell, Communication Studies, Words Is Strength: Motivating The Collegiate Athlete, 2:30-4:00
33	Neil Hanson, History, The Miracle on Ice, 9:45-11:15
34	Palmer Hittesdorf, History, How German Prisoners-of- War Helped Alleviate The Labor Shortage in Sleepy Eye, Minnesota During the Second World War, 9:45-11:15
35	Cheyenne Volk, Music, "Già il sole dal Gange" and "Le Violette": A Stylistic Comparison of the Works by Alessandro Scarlatti, 9:45-11:15
36	.Kevin Totusek, Music, Differences Between Writing a Jazz Chart and a Classical Composition, 10:30 - 12:00
37	.Megan Thooft, Music, Mozart's Cosi Fan Tutti: Comedy or Misogyny? 10:30 - 12:00
38	Alexis Christensen, Music, Toru Takemitsu and His "Air", 2:30-4:00

39	Jenna Vick, Music, A Comparative Analysis of Selections from the Funny Marimba Book by Nebojsa Jovan Zivkovic, 2:30- 4:00
40	
41 .	
42	
43	Tucker Machart, Political Science, The Effects of Coronavirus on Law Enforcement in Greater Minnesota, 1:00-2:30
44	Jesutofunmi Segun-Alao, Political Science, Immigrants in the Greater Minnesota Workforce, 2:30-4:00
45	
46	
47	
48	Bryn Mongeau, Theatre, Blurring the Binary - The History of Drag, 10:30 - 12:00
49	Alexander Duus, Theatre, Creating Pennywise, 10:30 - 12:00
50.	Alexis Christensen, Theatre, The History and Development of Makeup in Kabuki, 10:30 - 12:00
51.	Domonique McPhail, Theatre, Radium in Cosmetics, 1:00-2:30
52.	
53	Brady Berg, Theatre, Villain Makeup in the Bond Films, 1:00-2:30
54	Allyson Thuringer, Theatre Dangerous Makeup: the Wizard of Oz, 2:30-4:00
55	Emma Lipinski, Theatre, Egyptian Stage Make-Up Application Process, 2:30-4:00
56.	TJ Tjeerdsma, Theatre, Zombie TV and Movie Makeup, 2:30-4:00

CLOSING SESSIONS AND PRESENTATION OF LIBRARY RESEARCH AWARD

SMSU Conference Center Upper Level & Zoom Zoom Link: https://minnstate.zoom.us/j/98546707508
Password: URC2021

Room Moderator: Dr. Alyssa Anderson

4:30 Closing Remarks and Presentation of Library Research
Award

DISCOVER. ENGAGE. LEAD.





www.SMSU.edu | 1-800-642-0684

For more information contact conference coordinators:
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