

Wednesday, December 4, 2019

Starting at 8:30 a.m.
SMSU Conference Center

PROGRAM

Welcome and Keynote

SMSU Conference Center Upper Level

8:30 Kumara Jayasuriya, SMSU President, Opening Remarks

8:45 Dr. Peter J. Grahn, Mayo Clinic,
Keynote Address: "From dairy farmer to translational
neuroscientist: My journey across Minnesota"

ORAL SESSION A

SMSU Conference Center Upper Level Biology, Chemisty, Environmental Science

9:45	Erin Richardson, Environmental Science, Assessment of Adult Zebra Mussels in Lake Sarah, Southwest Minnesota
10:00	C. Bridget DuBrey, Environmental Science, Zebra mussel (<i>Dreissena polymorpha</i>) larvae distribution in Lake Sarah
10:15	Brent Huls, Environmental Science, Effects of Two Laundry Detergents on Green Algae (Selenastrum capricornutum)
10:30	BREAK
10:45	Samantha Pankratz, Environmental Science, Evaluation of tardigrades in moss on standing trees and fallen logs at Camden State Park in Lynd, Minnesota
11:00	C. Bridget DuBrey, Katherine Knights, Anneke Weg & Samantha Pankratz, Biology, Color Preferences of SMSU Birds at Supplementary Feeders
11:15	Ola Abimbola, Environmental Science, The survival rate of <i>E. coli</i> and <i>Salmonella</i> in 50:50 yard and kitchen waste compost at 120°F, 140°F and 160°F

11:30 Baylie Bloomquist, Environmental Science, Growth Patterns of Lichen, *Xanthoria elegans* and *Dimelaena oreina*, on Tombstones in Southwest Minnesota

11:45	Candace Thomas, Environmental Science, Designing an
	Exhibit for the SMSU Natural History Museum: The Prairie
	Pothole Region

12:00-1:00.... LUNCH BREAK

- 1:00......Sean Amegashie, Environmental Science, Concentration of Microplastics in Commercial Sea Salts
- 1:15......Baylie Bloomquist, Louis Lozinski & Candace Thomas, Biology, Food Preference and Competition for Food Among Acheta domesticus (Orthoptera: Gryllidae)
- 1:30Cody Friedges & Austin Domeier, Biology, Dominance Assessment of Madagascar Hissing Cockroaches
- 1:45 Christopher Berg, Idayat Agunbiade & Sarina Smith, Biology, A Longitudinal Study of PO₄³⁻ and NO₃ runoff from agricultural fields
- 2:00......Erin Richardson, Louis Lozinski & Sara Stoneberg , Biology,
 Assessment of Aquatic Macroinvertebrate Biodiversity in
 Camden State Park, Minnesota
- 2:15......Tanisha Neeley, Hayley Gerdes, Patrick Rhoads & Manoj Sapkota, Biology, Does bird feeder location influence the frequency of feeder visit from native species?
- 2:30......Abbagail Schotter & Nona Meunsy, Biology, Various

 Behaviors of *Anolis carolinensis* Following Artificial Dew lap

 Ornamentation
- 2:45.....Amy Heibult & Dina Vosberg , Biology, Evaluation of Chironomid Pupal Exuviae Sampling Methodology
- 3:00 BREAK
- 3:15......Cora J. Engels, Chemistry, Evaluation of a modified hot-water extraction and azomethine complexation method for soil boron determination
- 3:30.......Marissa Mattson, Environmental Science, Rainfall harvest summer 2019 in Prior Lake, Minnesota Compared to Historical Events
- 4:30 Awards Ceremony, Library Research Awards Presented

ORAL SESSION B

SMSU Charter Hall 201

English, Nursing, Sociology, Theatre

10:00	. Melinda Kassandra Lopez, Nursing, Hearing Loss and Dementia; Uncharted Territory
10:15	. Cat Schmidt, Theatre, Creating Fantastical Characters Through Makeup
10:30	.BREAK
10:45	. Claudia Wahl, Theatre, Marble Statue Makeup
11:00	Danny McDonnell, Theatre, The Influence and Application of Stage Makeup on Rock'n'Roll and Professional Wrestling
11:15	. Alyssa Ehlen, Theatre, Ghost, Ghouls, and Goblins, Oh my! A how to on goblin makeup
11:30	. Hailey Bieber, English, The Historical Evolution of Feminist Novels
11:45	. Sariah Cheadle, English, Underestimating Children's Literature: The War That Saved My Life
12:00- 1:00	LUNCH BREAK
1:15	Brooke Sorensen, Sociology, The Experiences of Female Students in the STEM Field on the Southwest Minnesota State University Campus
1:30	. Amber Clobes, Sociology, That's a WRAP
1:45,	. Megan Wickenhauser, Sociology, Men's Drive for Muscles and Media
2:00	. Megan Cull, Sociology, Sociology in Occupational Therapy

POSTER PRESENTATION SESSION A

SMSU Conference Center Lower Level Posters displayed 8:30 a.m. to 5:00 p.m.

Times shown indicate when authors will be present at the poster

Accounting, Agriculture, Biology, Computer Science, Exercise Science, Mathematics

1	Chelsea Wiese, Biology, Anti-immune system antibodies as a cause of kidney damage in Systemic Lupus Erythematous, Formal 2:45-3:15, Informal 11:15-11:45, 3:15-3:45
2	Patrick Rhoads, Biology, Serotonin receptor 5-HT4 activation and its ability to impede the accumulation of amyloid beta in Alzheimer's patients, Formal 1:00-1:30, Informal 10:15-10:45, 1:30-2:00
3	Hayley Gerdes, Biology, Efficacy of ketamine as an antidepressant and involvement of mTOR signaling, Formal 10:45-11:15, Informal 9:45-10:15, 3:00-3:30
4	Shawn Griffin, Biology, The Inhibitory Effects of Green Tea Derived Epigallocatechin-3-gallate against <i>Streptococcus</i> <i>mutans</i> , Formal 2:00-2:30, Informal 1:00-1:30, 2:30-3:00
5	Nona Meunsy, Biology, <i>Echinacea purpurea</i> for the treatment and prevention of influenza viruses, Formal 10:15-10:45, Informal 10:45-11:15, 1:30-2:00
6	Moses G. Ogundipe, Biology, The Role of Toll-Like Receptors in Pathogenesis of Guillain-Barré Syndrome, Formal 11:30-12:00, Informal 9:45-10:15, 2:30-3:00
7	Fadumo Ismail, Biology, The influence of the gut microbiome and vagus nerve on depressive behavior, Formal 1:30-2:00, Informal 2:00-2:30, 3:00-3:30
8	Prabhat Shrestha, Biology, Association between talc use and ovarian cancer, Formal 3:45-4:15, Informal 10:45-11:15, 1:00-1:30
9	Pushpa Chhantyal, Biology, Identification of the amino acid sequence responsible for Neurofibromatosis type 2 (NF2) tumor suppressor function in merlin protein, Formal 9:45-10:15, Informal 10:15-10:45, 2:00-2:30

10	Cassie Rogotzke, Agriculture, History of Risk Management in Agriculture, 11:00-12:00
11	Marco Gacke, Biology, Combinational immunotherapy with dual CTLA-4 and PD-1 blockade, Formal 3:15-3:45, Informal 11:00-11:30, 3:45-4:15
12	Erica Gervais & Cassie Rogotzke, Agriculture, Economic Development in Afghanistan, 2:30-3:30
13	Tarah Young & Ashley Anderson, Agriculture, Economic Development of Madagascar, 2:30-3:30
14	WITHDRAWN
15	Orrie Frahm, Accounting, The Positive Impacts of Family- Friendly Work Policies on Company Profits and Productivity, 10:00-11:00
16	Tanner Differding, Katie Robling & Luis E. Gaona, Biology, Allelopathic Effect of Velvetleaf on Soybean Plants, Katie 11:00-11:45, Tanner & Luis 3:00-3:45
17	Zakk Schmitz, Makayla Hoselton & Chidera Ezeh, Biology, Allelopathic Effects of Thyme on Bush Bean Growth, Chidera & Zakk 9:45-10:30, Makayla 1:00-1:45
18	Amber Wells, Rachel Miller & Kenny Famakinwa, Biology, The Impact of Herbivory on Companion Planting with Basil, Amber & Kenny 10:15-11:00, Rachel 1:45-2:30
19	Marco Gacke & Jayla Burt, Biology, Allelopathic Effect of Canada Goldenrod on Tomato Growth, Jayla & Marco 1:00-1:45
20	Emmeline D. Soto, Bryan Hurley & Moshood Agboola, Biology, Allelopathic Effects of Red Pine, Blue Spruce, and White Cedar on Dandelion Growth and Development, Bryan & Moshood 9:45-10:30, Emmeline 2:30-3:15
	Montayya McManus, Exercise Science, Body Composition Changes in a Summer Swim-Team Season, 1:30-2:30
22	Gabriel Galamue & Quadri Busari, Exercise Science, Does reaction-time testing improve reaction-time during sprinting? 1:30-2:30
23	Matthew Stude, Mathematics, Understanding the Mandelbrot Set, 10:00-11:00

24	Zach Thissen & Ben Specht, Exercise Science, Anaerobic Power in Division 2 Football Players, 1:00-2:00
25	Alison Drexler, Alex Ney, Justin Clark & Zachary Morgan, Exercise Science, Effects of Fasted High Intensity Interval Training on Body Composition , Alison & Alex 10:00-11:00 ; Justin & Zachary 1:00-2:00
26	Jenna Walczak & Madison Strodtman, Exercise Science, Difference in Reaction Time Between Division II Women's Volleyball and Basketball Players, 2:00-3:00
27	Tyler Smith, Exercise Science, Effects of RPR Resets on Jump Height of DII Basketball Players, 10:00-11:00
28	Jacob Rausch, Mathematics, Sabermetrics: The Math Behind Baseball, 10:30-11:30
29	Austin Domeier, Mathematics, Lotka-Volterra Theory: The Mathematics Behind Predator-Prey Interactions, 10:00-11:00
30	Nathan Kuhn, Mathematics, A Gambling System, 10:00-11:00
31	Alexis Bass, Mathematics, Analysis of Option Pricing Using the Black-Scholes Model, 10:30-11:30
32	Ankit Parajuli, Mathematics, Perron-Frobenius Theorem and Ranking of Soccer Teams, 10:00-11:00
33	John Miller, Computer Science, Digital Synthesis, 9:30-10:30
34	David Mcharo & Romit Tajale, Computer Science, DavidDoctors Android Application, 9:30-10:30
35	Jace Bunne & Bailey Olson, Computer Science, BartenderMe IOS Mix Drink Application, 9:30-10:30
36	Jason Kleindl, Computer Science, Fourball / Combined Golf Tournament Scoring, 1:00-2:00
37	Shrijan Suwal & Prajwal Shrestha, Computer Science, Cuisine Concept, 1:00-2:00
38	Jordan Mueller, Computer Science, Designing and Building a Website for the SMSU Residence Hall Association, 9:30-10:30

POSTER PRESENTATION SESSION B

Student Center Upper Level (SC 216) Posters displayed 8:30 a.m.- 5:00 p.m.

Times shown indicate when authors will be present at the poster

Culinology, History, Music, Philosophy, Political Science, Psychology, Sociology, Theatre

39	Samantha Hotzler, Music, Bringing life to music: How performers highlight emotion as exemplified by the performance of <i>Vergebliches Ständchen</i> by Johannes Brahms, 10:00-11:00; Performance at 1:30-2:20 FA Theatre
40	Kevin Totusek, Music, Music of Future Past: Composing Classical Music Through Modern Rock, 9:30-10:30; Performance at 1:30-2:20 FA Theatre
41	Rachael Blake, Music, Can You Hear Me Now?: Evolution of Musical Instinct in Relation to Hearing Loss, 10:30-11:30; Performance at 1:30-2:20 FA Theatre
42	Maria Callens, Music, <i>Sturm und Drang</i> in the Beethoven's Sonata Op. 10 No.1 in C minor, 9:30-10:30; Performance at 1:30-2:20 FA Theatre
43	Jack Elbert, Music, Can You Feel the Rhythm?: What you Hear Versus What you See, 10:30-11:30; Performance at 1:30-2:20FA Theatre
44	Ryan Ohm, Music, <i>Pavane Pour une Infante Défunte</i> (Pavane for a Dead Infant/Prince) "The story of the music by Ravel," 9:30-10:30; Performance at 1:30-2:20 FA Theatre
45	Maggie Graber-Heisinger, History, The Foundation of Southwest Minnesota State University's Inter-Faculty Organization Local: Toward Conflict Resolution, 2:00-3:00
46	Casey Klosterbuer, History, A Century and a Half Later: Looking Back at The Formation of Lyon County, 2:00-3:00
47	Brad Bahlmann, History, From the Ashes: Tracy, Milroy, Balaton School Consolidation and Small Town Identity, 10:00- 11:00

48	Ty Veen, History, Crime in Lyon County during World War I and World War II, 11:00-12:00
	Brandon Vonderharr, History, The Way We Drank: Lyon County in Pre-Prohibition Minnesota, 11:00-12:00
50	Cory Hollowell, History, From There to Here: The Experience of African American Student Athletes at Southwest Minnesota State University, 2:00-3:00
	Broderick Eveslage, History, Marshall, Alcohol, and Blue Laws, 11:00-12:00
	Whittney McCamish, History, Cultivating Community Through Celebration, 10:00-11:00
53	Paul Ragan, History, Sharing the Stage: The History of SMSU's Theatre Program in Lyon County, 9:30-10:30
54	Stanze Smith & Rajesh Hamal, Culinology, Product Development: Quick'r Curry, 11:30-12:30
55	Savannah Boedigheimer, Theatre, "Cause this is Thriller," 1:30-2:30
56	Allie Lamote, Theatre, The Beauty of Makeup, 1:00-2:00
57	Mary Jean Porter, Theatre, History of Theatrical Clown Makeup, 1:00-2:00
58	Leah Graham, Theatre, The Ageing Process: In Stage Makeup, 2:00-3:00
59	Zyairr Johnson-Landoll, Theatre, African Tribal Make-up, 2:00-3:00
60	Elizabeth Zoya, Theatre, Fantasy To The Stage, 2:00-3:00
61	WITHDRAWN
62	Jennifer Cox, Political Science, Community Responses to Plant Closures in Greater Minnesota, 1:00-2:00
63	Nathaniel Van Asperen, Political Science, Student Recruitment and Retention in Greater Minnesota State Universities, 10:00-11:00
64	Jake Samp, Political Science, Rural Broadband: Improving Education in the 21st Century, 10:00-11:00

65	Fatou MS Kinteh, Political Science, Community Leaders Respond to Immigration Issues in Southwest Minnesota, 1:00- 2:00
66	Ryleigh Haynes, Sociology, How Do College Students Justify Their Deviant Behavior? 1:30-2:30
67	Osman Osman, Sociology, Gender differences in professional sports, 1:30-2:30
68	Richard Ayers II, Sociology, University Program Management, 1:30-2:30
69	Kortney Genske, Ryleigh Haynes, Parker DeBates & Kimberlee Geuther, Psychology, Effect of Positive and Negative Emotions on Time Perception, 12:30-1:30
70	Cassandra Lee, Ivan Carrillo & Katelyn Plendl, Psychology, Time Perception and Memory for Simple and Complex Words, 12:30-1:30
71	Jamie Schell, Cassondra Ohnsorg & Carrie Enga, Psychology, The Effects of Personality Differences on Students' Perception of Time While Testing, 12:30-1:30
72	A. James Gully, Philosophy, Should Corporations Serve the Public Good? 1:30-2:30
73	Joey Heinen & Katherine Knights, Why the Argument of Unequal Consideration of Animals Due to Cognitive Inequality Fails, 10:00-11:00
74	Jessica Stai, Philosophy, Which is Better: Direct Democracy vs. Representative (Indirect) Democracy? 10:00-11:00
75	Rachal Albrecht, Political Science, Intended Effects of

Rochester's Destination Medical Center, 1:00-2:00

NOTES



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For more information contact conference coordinator: Dr. Emily Deaver (Emily.Deaver@SMSU.edu) SMSU Science Program, 1501 State Street, Marshall MN 56258

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