# CONCISE SCHEDULE OF EVENTS

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>ALL DAY</td>
<td>Senior Art Exhibition&lt;br&gt;Cyrus M. Running Gallery, ISC Commons</td>
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<tr>
<td>8:00 A.M.</td>
<td>Refreshments &amp; Presenter check-in&lt;br&gt;Centrum</td>
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<tr>
<td>9:00 A.M.</td>
<td>Welcome from the Provost and Director of&lt;br&gt;URSCA, Poster Session 1&lt;br&gt;Centrum</td>
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<tr>
<td>10:30 A.M.</td>
<td>Concurrent Session 1&lt;br&gt;ISC, Jones, Olin, Birkeland</td>
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<tr>
<td>11:25 A.M.</td>
<td>Concurrent Session 2&lt;br&gt;ISC, Jones, Olin, Birkeland</td>
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<tr>
<td>12:15 P.M.</td>
<td>Department Sessions, Lunch break&lt;br&gt;Various Locations</td>
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<tr>
<td>1:45 P.M.</td>
<td>Concurrent Session 3&lt;br&gt;ISC, Jones, Olin, Birkeland</td>
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<tr>
<td>2:40 P.M.</td>
<td>Concurrent Session 4&lt;br&gt;ISC, Jones, Olin, Birkeland</td>
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<tr>
<td>3:30 P.M.</td>
<td>Mentor of the Year Award, Prize Drawings&lt;br&gt;Centrum</td>
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<td>3:45 P.M.</td>
<td>Poster Session 2&lt;br&gt;Centrum</td>
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<tr>
<td>5:00 P.M.</td>
<td>Closing&lt;br&gt;Centrum</td>
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SESSION FORMATS

POSTER SESSIONS
These are fluid sessions that include large printed posters on easels as well a variety of creative works such as 2D and 3D art displayed on pedestals or digital monitors. Students are assigned a window of time to stand by their work in the Knutson Campus Center Centrum or Atrium along with other posters and/or art exhibits. They communicate their research or creative scholarship with attendees as they move throughout the space.

ART EXHIBITIONS
The Senior Art Exhibition is featured in the Cyrus M. Running Gallery, and one senior’s art installation hangs from the ceiling in the ISC Commons.

CONCURRENT SESSIONS
These sessions feature several presentations scheduled at the same time in different locations. Presenters in concurrent sessions are assigned a specific room on campus and a time slot within the session during which they present their work to a seated audience. Presenters and audience members are encouraged to stay for the duration of the whole session. Current sessions include up to four variations, selected by students when they submitted their abstract.

Panel
40-minute session featuring a 10- to 20-minute presentation followed by facilitated discussion for the remainder of the session

Classic
15-minute oral presentation (e.g. papers, PPT, artist’s talks, performance talks, extemporaneous speeches) followed by 5 minutes of Q&A for a total of 20 minutes

Nano
8-minute presentations followed by group Q&A. Three to four nano presentations will be scheduled in a single concurrent session

Pecha Kucha
400-second PPT presentation containing 20 PPT slides, each auto-timed for 20 seconds, with spoken word choreographed with each visual aid to tell a compelling story

DEPARTMENT SESSIONS
Academic departments and programs have the option of offering a special session during the lunch break. Examples of department session activities include honor society inductions and conversations with alumni.
COSS QUEST

DESCRIPTION
COSS QUEST is a gamified way to enjoy and interact with the various events at the URSCA Symposium COSS. There are a few ways to play COSS QUEST and earn chances to win prizes.

Follow concordia_ursca on Instagram and answer posted trivia questions.

Use #coss2024 #cordmn when commenting about your COSS experience on socials.

Pick up your COSS Passport from the Knutson Campus Center Centrum.

Collect stamps on your Passport as you attend COSS sessions and visit the tables in the atrium.

Show your stamped Passport to COSS volunteers in the Centrum for prize drawing entries.
SHOWCASE

DESCRIPTION

The Concordia Scholars - Showcase of Undergraduate Research is a digital collection of exemplary works presented by Concordia students at COSS. Faculty, staff, and guests are invited to nominate COSS presentations of any format for the Showcase. Nominations are due by 30 April 2024. To nominate, email the scholar’s name and presentation title to archives@cord.edu.

Visit the Showcase: https://digitalhorizonsonline.org/digital/collection/cord-work

NOMINATION CRITERIA

- Project demonstrates a high degree of rigor, depth, and quality
- Research or creative activity is original work that makes a relevant contribution to its area of study
- Presentation of research (written, oral, performed) is clear, professional, and engaging
- Research was conducted and presented in an ethical manner
- Project serves as an excellent model of undergraduate scholarship for the Concordia community
9:00 - 10:15 A.M. POSTER SESSION 1
Knutson Campus Center Centrum

P01. “Comparing Biodiversity of Small Mammal Species in Remnant and Restored Prairie Habitats”
   Student Presenter(s): Katie Waugh, Lydia Durrett
   Mentored by: Dr. Joseph Whittaker

P02. “Ethnographic review of Concordia’s EACH club”
   Student Presenter(s): Olivia Daniels
   Mentored by: Dr. Karla Knutson

P03. “Phytoplankton Abundance in Long Lake, Detroit Township, MN”
   Student Presenter(s): Jordan Hunnicutt, Jadrian Moe, Tessa Danielson, Isaac Blashack
   Mentored by: Dr. Mike Bush

P04. “Review of Water Quality in Turtle River Lake”
   Student Presenter(s): Rachel Andersen
   Mentored by: Dr. Mike Bush

P05. “A Real-life Oasis: The importance of springs in desert ecosystems”
   Student Presenter(s): Rachel Andersen, Hannah Olson, Grace Borka, Erin Vruwink
   Mentored by: Dr. Mike Bush

P06. “Stomata Density in Green Ash and Bur Oak Trees between Moorhead, MN and Long Lake, Detroit Lakes, MN”
   Student Presenter(s): Desi Hoppe, Jillian Walz, Rachel Krause, Maddie McGraw
   Mentored by: Dr. Mike Bush

P07. “Magnetic Properties of Pipestone (Catlinite) Samples”
   Student Presenter(s): Rowan Nelson, Elijah Heyer
   Mentored by: Dr. Thelma Berquó

P08. “Unraveling the Function of Protein 3L1W: A Comprehensive In Silico and In Vitro Investigation”
   Student Presenter(s): Gabriel Sparks, William Knoop, Alexander Rapelje
   Mentored by: Dr. Julie Mach
9:00 - 10:15 A.M. POSTER SESSION 1
Knutson Campus Center Centrum

P09. “Synthesis of RAPTA Derivatives”
Student Presenter(s): Gannon Kuehn, Braden Jackson
Mentored by: Dr. Donald Krogstad

P10. “Photothermal Imaging of Transient and Steady State Convection Dynamics in Primary Alkanes”
Student Presenter(s): Johan Dominguez Lopez
Mentored by: Dr. Darin Ulness Dr. Mark Gealy

P11. “Top Managerial Challenges Small and Large Retail Stores Face”
Student Presenter(s): Isabella Ortendahl, Brady Tatro, Sam Johnson, Hannah Luithle, Emma Bowman, Garrett Sandberg
Mentored by: Dr. Shontarius Aikens

P12. “Modern Concerns of Administrative Roles”
Student Presenter(s): Kane Hoff, Abbey Hardwick, Conner Walsh, Matthew Gangl, Ryan Pogue
Mentored by: Dr. Shontarius Aikens

P13. “Exercise Culture in College Gyms”
Student Presenter(s): Devon Adams
Mentored by: Dr. Karla Knutson

P14. “Aerial Dance: The Teachers of FM Aerial and Movement Arts”
Student Presenter(s): Briea Freeman
Mentored by: Dr. Karla Knutson

P15. “Hummingbird Behaviors Concerning Sugar Concentrations in Feeders”
Student Presenter(s): Madelyn Barlage, Stella Peterson, Alexa Routledge
Mentored by: Dr. Jenn Sweatman, Dr. Joseph Whittaker, Dr. Mike Bush

P16. “Diferencias entre el sistema escolar y los sistemas de apoyo psicológico en Segovia y Estados Unidos (Differences between the school system and psychological support systems in Segovia and the United States)”
Student Presenter(s): Jacob Thompson
Mentored by: Ady Johnson
9:00 - 10:15 A.M. POSTER SESSION 1
Knutson Campus Center Centrum

P17. “The Influence of ‘Balance ton porc’ and other Feminism Movements in France”
   Student Presenter(s): Margrethe Hawthorne
   Mentored by: Dr. Gay Rawson

P18. “#NiUnaMenos: A Movement Against Femicide in Latin American Countries”
   Student Presenter(s): Kailey Thomas
   Mentored by: Karin Hillstrom

P19. “Writing for The Concordian”
   Student Presenter(s): Amy Carpenter
   Mentored by: Dr. Karla Knutson

P20. “Ethnography in The Real World”
   Student Presenter(s): Joey Molstre, Annalise Skrade
   Mentored by: Dr. Karla Knutson

P21. “A Suggestion for Concordia College on Adopting a Policy to Support Lifelong Learning”
   Student Presenter(s): Bree Sheridan, Raquel Egge, Sydney Olson, Hadlie Dahlseid
   Mentored by: Dr. Philip Lemaster

P22. “Intergenerational Relationships: Bridging the Gap”
   Student Presenter(s): Jaxon Dewald, Kelly Pudwill, Sophie Mickelson, Dayana Ramsay
   Mentored by: Dr. Philip Lemaster

P23. “Preparing The African American Spiritual”
   Student Presenter(s): Matthew Mortensen
   Mentored by: Dr. Jennifer Nash

P24. “Musicians and ‘Heretics’: Connections between the Troubadours and the Cathars of Medieval France”
   Student Presenter(s): Zachary Catalan
   Mentored by: Dr. Michael Johnson
DETAILED SCHEDULE
https://ursca.org/coss

9:00 - 10:15 A.M. POSTER SESSION 1
Knutson Campus Center Centrum

P25. "Becoming What We Eat: How the Holy Mass Prepares the Laity for Missionary Discipleship"
   Student Presenter(s): Claire Dummer, Erika Collins
   Mentored by: Dr. Mark Krejci

P26. "Investigation into Evidence Base Around New Emergency Department Chest Pain Protocol"
   Student Presenter(s): Leo Hanson
   Mentored by: Dr. Tally Tinjum

P27. "Plasma Donation Center Potential to Act as a Community Resource"
   Student Presenter(s): Gendra-Marleen Aasmaa
   Mentored by: Dr. Tally Tinjum

P28. "Determinants of Oncology Health in Spanish-speaking countries"
   Student Presenter(s): McKenna Becher, Gabriela Castro
   Mentored by: Karin Hillstrom

P29. "Curanderismo Contemporaneo: An Examination of Contemporary Curanderismo in the US"
   Student Presenter(s): Josh Kramer, Gavin Bakke
   Mentored by: Karin Hillstrom

P30. "Studying the Healthcare Industry"
   Student Presenter(s): David Dorsey, Jacoby Nold, Robert Leslie, Jacob Parmer, Abby Eidsness
   Mentored by: Dr. Shontarius Aikens

P31. "Life and Work at the Fargo Police Department"
   Student Presenter(s): Caden Nestler
   Mentored by: Dr. Karla Knutson

P32. "The Impact of Poverty on Youth Crime Rates"
   Student Presenter(s): Levi Gross, Tanner Olson, Terry Kreps
   Mentored by: Dr. Michelle Lelwica
DETAILED SCHEDULE
https://ursca.org/coss

9:00 - 10:15 A.M. POSTER SESSION 1
Knutson Campus Center Centrum

P33. “Analyzing the Relationship between Childhood Trauma and the Likelihood of Committing Sexual Crimes in Adulthood”
   Student Presenter(s): Clara Rooney, Cole Cook, Frederick Robin
   Mentored by: Dr. Michelle Lelwica

P34. “Objection, Your Honor! An Analysis of Contemporary Courtroom Dramas and Their Portrayals of Race, Gender, and Common Courtroom Stereotypes”
   Student Presenter(s): Mykaela Zola
   Mentored by: Dr. Indira Neill Hoch

P35. “Exploring the Role of Emotional Stimuli in Visual Working Memory Binding”
   Student Presenter(s): Megan Olson
   Mentored by: Dr. Dwight Peterson

Knutson Campus Center Atrium

P36. “The Efficacy of Gifted and Talented Education”
   Student Presenter(s): Katrina Ustanko
   Mentored by: Dr. Karla Knutson

   Student Presenter(s): Alissa Edjacin, Olivia Brault
   Mentored by: Karin Hillstrom

P38. “Empathy is Hard: a Replication Study”
   Student Presenter(s): Hanna Walica
   Mentored by: Dr. Mona Ibrahim

   Student Presenter(s): Jordon Perkins
   Mentored by: Dr. Aileen Buslig

P40. “Pollinators Preference on Sugar Solution and Color”
   Student Presenter(s): Mohamed Mustafa
   Mentored by: Dr. Mike Bush
DETAILED SCHEDULE
https://ursca.org/coss

9:00 - 10:15 A.M. POSTER SESSION 1
Knutson Campus Center Atrium

P41. “Exploring Different Recipes For New Chitosan And Alginate Bioplastics”
   Student Presenter(s): Favziya Rasulova
   Mentored by: Dr. Graeme Wyllie

P42. “Assessing Microplastic Concentrations in the Gastrointestinal Tracts and Fecal Matter of Tree and Ground Squirrels (Sciuridae) found in Urban and Rural Habitats.”
   Student Presenter(s): Yuden Dorji, Fatima Mohammed, Mubina Rasul, Favziya Rasulova
   Mentored by: Dr. Joseph Whittaker

COSS PASSPORT TABLES
Knutson Campus Center Atrium

Visit these tables for information about the services and opportunities they offer to students. Collect a stamp on your COSS Passport at each table.

   Center for Holistic Health
   Center for Student Success
   Archives
   Integrative Learning and PEAK
   Career Center
DETAILED SCHEDULE
https://ursca.org/coss

10:30 - 11:10 A.M. CONCURRENT SESSION 1

Birkeland Alumni Lounge (near Memorial Auditorium)
Theme: Voices & Representation

C01. “Building a Better Concordia: A Fresh Exercise Facility for a Fresh Start” (Panel Presentation)
    Student Presenter(s): Mason Dahl, Daniel Skrade, Ethan Leopold, Kyla Abrahamson, Brynn Nelson, Lauren Sekely
    Mentored by: Dominic Meyers

Integrated Science Center (ISC) 201
Theme: Food Health & Social Responsibility

C02. “Viral Pathogenic Mechanisms Leading to Stroke after Herpes Zoster Ophthalmicus in Children” (Classic Presentation)
    Student Presenter(s): Connor Sturges
    Mentored by: Dr. Charles Grose, University of Iowa

C03. “Utilization of the Crystal Kappa Mutations in HIV Fab Crystallization” (Classic Presentation)
    Student Presenter(s): Dustin Traffie
    Mentored by: Dr. Ian Wilson, The Scripps Research Institute

Integrated Science Center (ISC) 260
Theme: Knots & Threads

C04. “Building Healthy Communities with Food Sovereignty and Traditional Ecological Knowledge” (Nano Presentation)
    Student Presenter(s): Lydia Durrett, Amber Eken
    Mentored by: Dr. Jenn Sweatman

C05. “Building a Website with Multimedia” (Nano Presentation)
    Student Presenter(s): Margaret Rappa, Alyssa Czernek
    Mentored by: Erin Hemme-Froslie

C06. “A Mixed Method Study: What Lies Behind the Job Application” (Nano Presentation)
    Student Presenter(s): Rachel Hauschildt
    Mentored by: Dr. Indira Neill Hoch
10:30 - 11:10 A.M. CONCURRENT SESSION 1

**Integrated Science Center (ISC) 301**
**Theme: Potential & Frustration**

C07. “Exploring the Effects of Vivaldi Music Enrichment on Anxiety and Memory in Adult Leopard Zebrafish” (Classic Presentation)
   Student Presenter(s): Annika Griffith, Jessica Howard, Ian Scheele
   Mentored by: Dr. Krys Strand, Harshana DeSilva Feelixge

C08. “Culturing Neurons from Zebrafish Brain and Spinal Cord: A Student-Centered Tissue Culturing Approach” (Classic Presentation)
   Student Presenter(s): Yvette Umutoniwase, Sharleen Mtesa
   Mentored by: Harshana De Silva Feelixge, Dr. Krys Strand

**Morrie Jones A-B (in Knutson Campus Center)**
**Theme: Community & Environment**

C09. “Court Culture: Unveiling the Social Dynamics and Behaviors in the Intermural Basketball League at Concordia College” (Classic Presentation)
   Student Presenter(s): Benjamin Becker
   Mentored by: Dr. Karla Knutson

C10. “Verticality Old and New: Issues of Class Mobility in West Side Story and Parasite” (Classic Presentation)
   Student Presenter(s): Reagan Mueller, Kaylee Robinson
   Mentored by: Dr. Gregory Carlson

**Morrie Jones C-D (in Knutson Campus Center)**
**Theme: Power & Reaction**

C11. “The Unacknowledged Role of Women in Revitalizing Post-conflict Societies: An analysis of women’s roles in societies of conflict, war, and violent resistance movements” (Classic Presentation)
   Student Presenter(s): Dana Al Khaldi
   Mentored by: Dr. Kenneth Foster

C12. “Armies, Battles, Cards, and Dice: Building community through collaborative play” (Classic Presentation)
   Student Presenter(s): Parsley Sternhagen, Sarah Mueller
   Mentored by: Dr. Karla Knutson
DETAILED SCHEDULE

https://ursca.org/coss

10:30 - 11:10 A.M. CONCURRENT SESSION 1

Olin 124
Theme: Controversy & Empathy

C13. “Understanding CRT Predicts Antiracist Attitudes and Commitment to Social Justice” (Classic Presentation)
   Student Presenter(s): Jaden Link
   Mentored by: Dr. Mona Ibrahim

   Student Presenter(s): Hakima Amiri
   Mentored by: Dr. Amy Watkin

11:25 - 12:05 P.M. CONCURRENT SESSION 2

Birkeland Alumni Lounge (near Memorial Auditorium)
Theme: Voices & Representation

C15. “Student Publications Importance On A College Campus” (Panel Presentation)
   Student Presenter(s): Kay Erickson, Paige Naughton, Desarae Kohrs
   Mentored by: Erin Hemme Froslie

Integrated Science Center (ISC) 201
Theme: Food Health & Social Responsibility

C16. “The Digital Space as a Tool for the Democratization of Suppressed Knowledge” (Classic Presentation)
   Student Presenter(s): Tasha Branden
   Mentored by: Dr. Rebecca Stewart-Gray

C17. “Effectiveness and Engagement in Virtual Education and Work” (Classic Presentation)
   Student Presenter(s): Graycin Wanzek
   Mentored by: Bree Langemo, J.D.
11:25 - 12:05 P.M. CONCURRENT SESSION 2

Integrated Science Center (ISC) 260
Theme: Knots & Threads

C18. “A Virtual Tool for Virtual Knots” (Classic Presentation)
   Student Presenter(s): Emily Liddell, Matej Kozanek
   Mentored by: Dr. Sarah Seger

C19. “Characterization of IL-6 Cytokines in the Rat Supraoptic Nucleus” (Classic Presentation)
   Student Presenter(s): Connor Sturges, Alisha Debleye, Ian Scheele, Tembo Chilala, Julia Wolf
   Mentored by: Dr. Jason Askvig

Integrated Science Center (ISC) 301
Theme: Potential & Frustration

C20. “Neuro-solidarity’: Exploring the Union of Experiential Learning and Social Justice towards Creating Spaces of Intergenerational Healing and Resiliency” (Classic Presentation)
   Student Presenter(s): Timea Vrabcová
   Mentored by: Dr. Joe Underhill, Augsburg University

C21. “Low Pitch or Low Self-Esteem? Verbal and Vocalic Manifestations of Self-worth” (Classic Presentation)
   Student Presenter(s): Zoey Zachek
   Mentored by: Dr. Aileen Buslig

Morrie Jones A-B (in Knutson Campus Center)
Theme: Community & Environment

C22. “The Community Behind the Music- An Ethnography on the Microcultures of Hvidsten” (Classic Presentation)
   Student Presenter(s): Macyn Speer
   Mentored by: Dr. Karla Knutson

C23. “Mysterious Manet: An Examination of Musical Paradoxes in Edouard Manet’s (1832-1883) The Spanish Singer (1860)” (Classic Presentation)
   Student Presenter(s): Lydia Repnow
   Mentored by: Dr. Annett Richter
DETAILED SCHEDULE
https://ursca.org/coss

11:25 - 12:05 P.M. CONCURRENT SESSION 2
Morrie Jones C-D (in Knutson Campus Center)
Theme: Power & Reaction

C24. “It isn’t JUST HAIR” (Classic Presentation)
   Student Presenter(s): Hameedah Oladele
   Mentored by: Dominic Meyers

C25. “How She Shoots: Women Empowerment Through Basketball” (Classic Presentation)
   Student Presenter(s): Hakima Amiri
   Mentored by: Dr. Karla Knutson

Olin 124
Theme: Controversy & Empathy

C26. “Jean Genet : Énigme et écrivain” (Classic Presentation)
   Student Presenter(s): Rachel Andersen
   Mentored by: Dr. Gay Rawson

C27. “LGBTQ+ Targeted Literary Censorship” (Classic Presentation)
   Student Presenter(s): Jessica Shaw
   Mentored by: Dr. Amy Watkin

12:15 - 1:30 P.M. DEPARTMENT SESSIONS

Art
A Lifelong Journey and Senior Art Exhibition Opening
Olin 207

Biology
A Legacy of Mentorship: Celebration of Dr. Ellen Aho
Birkeland Alumni Lounge

Communication Studies and Theatre Arts
CSTA Honors and Awards
Francis Frazier Comstock Lab Theatre
DETAILED SCHEDULE
https://ursca.org/coss

12:15 - 1:30 P.M. DEPARTMENT SESSIONS

History
Phi Alpha Theta Induction Ceremony
Old Main 301

Physics
Sigma Pi Sigma Honor Society Induction
ISC 249

Psychology
Psi Chi Honors Induction and Psychology Job Panel
ISC 106

Sociology
Lessons from the Field
Old Main 331

World Languages and Cultures
A Taste of the Language Villages
Grose 236

1:45 - 2:25 P.M. CONCURRENT SESSION 3

Birkeland Alumni Lounge (near Memorial Auditorium)
Theme: Voices & Representation

C28. “Chinese Culture in Everyday Life” (Panel Presentation)
Student Presenter(s): Yun Chieh Chang, Al Sterling, Cassandra Sternitzky, Ginger Garcia-Ortiz, Yuki Tei, Belle Wei
Mentored by: Yun Chieh Chang, Dr. Gay Rawson
1:45 - 2:25 P.M. CONCURRENT SESSION 3

Integrated Science Center (ISC) 201
Theme: Food Health & Social Responsibility

C29. “Accessibility in Norway’s Universal Healthcare System” (Classic Presentation)
   Student Presenter(s): Kailey Thomas
   Mentored by: Mark Melby

C30. “The Legacies of Norwegianization: Refugee Settlement & Integration Policy in Contemporary Norway” (Classic Presentation)
   Student Presenter(s): Anna Kronbeck
   Mentored by: Dr. Erik Cleven, St. Anselm College

Integrated Science Center (ISC) 260
Theme: Knots & Threads

C31. “Interviewing Standards and Stories” (Panel Presentation)
   Student Presenter(s): Mary Skorich, Parsley Sternhagen, Benjamin Hunke
   Mentored by: Erin Hemme Frosole

Integrated Science Center (ISC) 301
Theme: Potential & Frustration

C32. “Frustrated Plumes in Fresh and Salt Water” (Classic Presentation)
   Student Presenter(s): John Biebighauser
   Mentored by: Dr. Darin Ulness, Dr. Krys Strand, Dr. Mark Gealy

C33. “Photothermal Imaging of Convection and Conduction in Artificial Vitreous Humor” (Classic Presentation)
   Student Presenter(s): Jack Pelzel, Reese Anderson
   Mentored by: Dr. Krys Strand, Dr. Darin Ulness
1:45 - 2:25 P.M. CONCURRENT SESSION 3

Morrie Jones A-B (in Knutson Campus Center)
Theme: Community & Environment

C34. “Pathways to Greatness: Unveiling Leadership Insights from the Red River Valley” (Classic Presentation)
   Student Presenter(s): Kevin Ness
   Mentored by: Dean Chris Mason, Dr. Angel Carrete Rodriguez, Bree Langemo, J.D.

C35. “Fifty-Two Years of Title IX: The Study of Young Women’s Culture in Competitive Volleyball” (Classic Presentation)
   Student Presenter(s): Laura Brown
   Mentored by: Dr. Karla Knutson

Morrie Jones C-D (in Knutson Campus Center)
Theme: Power & Reaction

C36. “’Poly-huh?’ An Intro to Polymers, Epoxies, and New Advances in the Field” (Classic Presentation)
   Student Presenter(s): Hannah Olson
   Mentored by: Shikhin Nadjarkni and Dr. Dean C Webster, NDSU

C37. “Mutated WDR45 Effects on Neurodevelopmental Delays in Beta-Propeller Protein Associated Neurodegeneration (BPAN)” (Classic Presentation)
   Student Presenter(s): Jessica Howard
   Mentored by: Dr. Louis-Jan Pilaz, Sanford Research, Sioux Falls, SD

Olin 124
Theme: Controversy & Empathy

C38. “Red River Waste Management and Cleanup” (Classic Presentation)
   Student Presenter(s): Emma Louise Berger, Alex McPhee
   Mentored by: Dr. Jenn Sweatman

   Student Presenter(s): Josh Kramer
   Mentored by: Dr. Darren Valenta, Dominic Meyers
2:40 - 3:20 P.M. CONCURRENT SESSION 4

Birkeland Alumni Lounge (near Memorial Auditorium)
Theme: Voices & Representation

C40. “MUS 380: Singing, Incarceration and Restorative Justice” (Panel Presentation)
   Student Presenter(s): Erik Ault, Elena Plum, Aaron Kess
   Mentored by: Joseph Kemper

Integrated Science Center (ISC) 201
Theme: Food Health & Social Responsibility

C41. “Food Systems in Indigenous Societies under Settler Colonialism” (Classic Presentation)
   Student Presenter(s): Dana Al Khaldi
   Mentored by: Dr. Jan Pranger

C42. “Grounds to Grow- How a Coffee Cup Can Feed a Family and Save the Environment” (Classic Presentation)
   Student Presenter(s): Veronica Wolfe
   Mentored by: Karin Hillstrom

Integrated Science Center (ISC) 260
Theme: Knots & Threads

C43. “The Weimar Republic: a queer utopia, or a cautionary tale?” (Panel Presentation)
   Student Presenter(s): Emily Liddell
   Mentored by: Dr. Darren Valenta, Dominic Meyers
2:40 - 3:20 P.M. CONCURRENT SESSION 4

**Integrated Science Center (ISC) 301**  
Theme: Potential & Frustration

**C44. “Improving Healthcare for Patients with Adverse Childhood Experiences (ACEs)” (Classic Presentation)**  
Student Presenter(s): Kailey Thomas, Edwin Rasidovic  
Mentored by: Dr. Michelle Lelwica

**C45. “Spaceflight Associated Neuro-Ocular Syndrome (SANS)” (Classic Presentation)**  
Student Presenter(s): Zenab Ariye, Sahra Mohamed, Sharleen Mtesa  
Mentored by: Dr. Krys Strand

**Morrie Jones A-B (in Knutson Campus Center)**  
Theme: Community & Environment

**C46. “Impact of Urban Zoning on Deposition of Heavy Metal Pollution in Soil: Analysis on As, Cd, Cr, Hg, and Pb Using ICP-OES” (Classic Presentation)**  
Student Presenter(s): Landry Maragos, Connor Sturges, Maddie Guler  
Mentored by: Dr. Jenn Sweatman, Dr. Mark Jensen

**C47. “Environmental Justice in Moorhead, Minnesota: An Examination of Public Green Spaces in Six Neighborhoods of Varying Income Levels” (Classic Presentation)**  
Student Presenter(s): Anna Kronbeck, Daniel Pambu  
Mentored by: Dr. Ken Foster
2:40 - 3:20 P.M. CONCURRENT SESSION 4

Morrie Jones C-D (in Knutson Campus Center)
Theme: Power & Reaction

C48. “Recalled to Life, Searching for the Missing Thread” (Classic Presentation)
   Student Presenter(s): Abigail Thurmer
   Mentored by: Dr. Amy Watkin

C49. “Dead Fathers and Withered Violets: The Symbols of Psychosis in Hamlet and the Unreliability of Narration” (Classic Presentation)
   Student Presenter(s): Laura Jensen
   Mentored by: Dr. Karla Knutson

Olin 124
Theme: Controversy & Empathy

C50. “Researching and Testing ChatGPT and its Competitors, Separating the Hype from the Facts” (Classic Presentation)
   Student Presenter(s): Nathan Kraft, Ye Yint Win
   Mentored by: Dr. Ahmed Kamel

C51. “Building Better Mobile Keyboard Suggestions with Large Language Models and International Internship Opportunities (DAAD RISE)” (Classic Presentation)
   Student Presenter(s): Riley Fiske
   Mentored by: Florian Bemmann, Prof. Sven Mayer, Daniel Buschek, University of Bayreuth

3:30 - 3:45 P.M. AWARDS AND PRIZES

Presenters were invited to nominate their mentor for the 2024 COSS Mentor of the Year Award. The recipient of this award will be announced during this time. Following the award, a number of prize winners will be drawn from attendees and presenters who have played COSS Quest.
3:45 - 5:00 P.M. POSTER SESSION 2
Knutson Campus Center Centrum

P43. “Exploring the Origins and Impact of Microplastics on Squirrel Gut Microbiome: Insights into Firmicutes and Bacteroidetes Dynamics”
   Student Presenter(s): Yuden Dorji, Danielle Haigh
   Mentored by: Dr. Jenn Sweatman

P44. “Quantitative and Qualitative Analysis of Dental Anomalies and Pathology in White-tailed Deer (Odocoileus virginanus)”
   Student Presenter(s): Tessa Danielson
   Mentored by: Dr. Joseph Whittaker

P45. “Investigating Phyllotaxis with Arabidopsis thaliana”
   Student Presenter(s): Eden Smith, Jorgen Deitz
   Mentored by: Dr. Mallorie Taylor-Teeples

P46. “Examining the Relationship of Polypore Size and Tree Circumference”
   Student Presenter(s): Seema Tian, Charlotte Dove, Braden Jackson, Mame Diarra Bousso
   Mentored by: Dr. Mike Bush

P47. “Exploring the Psychoactive Brew Ayahuasca: Its Effects and Expansion to Western Medicine”
   Student Presenter(s): Clara Rooney, Cole Cook
   Mentored by: Karin Hillstrom

   Student Presenter(s): Hailey Puppe, Kelly Pudwill
   Mentored by: Dr. Dwight Peterson

P49. “Green Analytical Chemistry Principles Applied to the Extraction of Endocrine Disruptors from Water”
   Student Presenter(s): Gabriel Sparks, Alexander Rapelje
   Mentored by: Dr. Mark Jensen

P50. “History of Artificial Reefs”
   Student Presenter(s): Delaney Claggett
   Mentored by: Dr. Elijah Bender
3:45 - 5:00 P.M. POSTER SESSION 2
Knutson Campus Center Centrum

P51. “Tunneling Time in a Simple Ionization Model”
Student Presenter(s): Zach Jackson, Matthew Mondry
Mentored by: Dr. Luiz Manzoni

P52. “Parental Influences of Gendered Behavior”
Student Presenter(s): Jacob Thompson
Mentored by: Dr. Elizabeth Ewing Lee

P53. “Top 10’ Concerns in the Healthcare Industry; What Managers Need to be Aware of.”
Student Presenter(s): Anna Carlson, Mariame Ghayout, Elizabeth Malz, Lindsay Miller, Patience Kollie
Mentored by: Dr. Shontarius Aikens

P54. “¿Cómo vamos a pagar por eso?: The Spanish Universal Healthcare System vs The United States Healthcare System”
Student Presenter(s): Luke Wilts, Reanna Borgen
Mentored by: Karin Hillstrom

P55. “Exploring the Impact of Sporting Events on Climate Change”
Student Presenter(s): Rachel Andersen, Hallie Thompson, Madelyn Barlage
Mentored by: Dr. Jenn Sweatman

P56. “Carbon Tax in Minnesota? Is it applicable and how would it be used?”
Student Presenter(s): Ayden Friese
Mentored by: Dr. Jenn Sweatman

P57. “Youth Mental Health Access to Prevent Contact with the Justice System”
Student Presenter(s): Alyssa Czernek, Delaney Smith, Jadrian Moe, Alex Brings, Anna Guttormson
Mentored by: Dr. Michelle Lelwica
3:45 - 5:00 P.M. POSTER SESSION 2
Knutson Campus Center Centrum

P58. “Combatting Loneliness and Depression in Older Adults by Creating Intergenerational Connections Through a School Sanctioned Organization.”
   Student Presenter(s): Madeline Guler, Ethan Tong, Jordyn Kahler, Liam Haslam
   Mentored by: Dr. Philip Lemaster

P59. “Women’s Role in the Continuation of Curanderismo as Folk Medicine and Resistance in Mexico”
   Student Presenter(s): Anna Kronbeck, Sara Kampsen
   Mentored by: Karin Hillstrom

P60. “ Forced Sterilization of Indigenous Peruvian Women”
   Student Presenter(s): Rachel Bringle
   Mentored by: Karin Hillstrom

P61. “Femicide in Mexico”
   Student Presenter(s): Crystal Analco Morales
   Mentored by: Karin Hillstrom

P62. “Virtual Gatherings: An Ethnographic Study of Culture and Socialization in Online Voice Chat Communities”
   Student Presenter(s): Zachary Culver
   Mentored by: Dr. Karla Knutson

P63. “Seeing the Message? TV Advertising in State-Wide Primary Elections”
   Student Presenter(s): Hannah Paysse
   Mentored by: Dr. Nicholas Howard

P64. “Organizational Behavior Issues for Managers/Leaders in the Arts and Culture Industry”
   Student Presenter(s): Chase Linde, Christian Elmer, Erick Torres, Michael Matthews
   Mentored by: Dr. Shontarius Aikens

P65. “Excavating Dinosaurs in the Hell Creek Formation”
   Student Presenter(s): Olivia Daniels, Peter Weinzierl, Cael Schlauderaff
   Mentored by: Dr. Ron Nellermoe
3:45 - 5:00 P.M. POSTER SESSION 2
Knutson Campus Center Centrum

   Student Presenter(s): Zara Iwen
   Mentored by: Dr. Susan Lee

P67. “Organizational Behavior in the Retail Industry”
   Student Presenter(s): Kay Pederson, Charlie Rasmussen, Justin Lamp,
   Kipton Jenson Jena Bjelland Ben Blancas
   Mentored by: Dr. Shontarius Aikens

P68. “Beyond the Boardroom: An Ethnographic Study of the Moorhead
   Public School Board”
   Student Presenter(s): Ridgley Hulstein
   Mentored by: Dr. Karla Knutson

P69. “Beyond the Books”
   Student Presenter(s): Tristin Qualey
   Mentored by: Dr. Karla Knutson

P70. “El Crecimiento del Ecoturismo en Segovia, España”
   Student Presenter(s): Hannah Olson
   Mentored by: Karin Hillstrom

P71. “Coffee and Connection: Exploring Social Dynamics in Twenty Below
   Coffee Co.”
   Student Presenter(s): Peyton Moench
   Mentored by: Dr. Karla Knutson

P72.-P74. “Beyond LEO: Human Factors of Long-Duration Space Travel”
   Student Presenter(s): Venesa Angau, Cayley Borrud, Alexa Corbett,
   Charlene Geraci, Annika Griffith, Signe Harris, Jessica Howard, Kathryn
   Lind, Peace Nanyonga, Sharon Mac-George Nwalia, Sahra Mohamed,
   Sharleen Mtesa
   Mentored by: Dr. Krys Strand
DETAILED SCHEDULE
https://ursca.org/coss

3:45 - 5:00 P.M. POSTER SESSION 2
Knutson Campus Center Centrum

P75. “Investigating the Effects of Acetazolamide on Spaceflight-Associated Neuro-ocular Syndrome (SANS) in a Simulated Microgravity Environment”
   Student Presenter(s): Yvette Umutoniwase, Yuden Dorji, Mubina Rasul, Favziya Rasulova, Fatima Mohammed
   Mentored by: Dr. Krys Strand

P76. “Hactivism and Beyond: An Examination of Hacking in the Digital Era”
   Student Presenter(s): Vanessa Islas, Mariana Martins Carvalho, Zamzam Mohamed
   Mentored by: Dr. Ahmed Kamel

P77. “Establishing ‘Established Adulthood’: Empirical Support for a Distinct Period of Adult Life”
   Student Presenter(s): Meg Shercliffe
   Mentored by: Dr. Philip Lemaster

Knutson Campus Center Atrium

P78. “Understanding Consumer Perceptions and Behaviors in the Mental Health Merchandise Market: A Quantitative Analysis”
   Student Presenter(s): Kaleigh Reller
   Mentored by: Dr. Odile Streed

P79. “Pouring Apologia: How Bud Light Responded to Public Scrutiny”
   Student Presenter(s): Alexandra Klein
   Mentored by: Dr. Kirsten Theye

P80. “Regularly”
   Student Presenter(s): Makayla Anderson
   Mentored by: Dr. Karla Knutson

P81. “3DS8, Why Should we Investigate?”
   Student Presenter(s): Mackenzie Johnson, Al Sterling, Isaac Blashack, Lily Haasser
   Mentored by: Dr. Julie Mach
3:45 - 5:00 P.M. POSTER SESSION 2
Knutson Campus Center Atrium

P82. “The Effect of Anthropogenic Food Sources on Nest Placement and Foraging Location of Gray and Red Squirrels in an Urban Environment”
   Student Presenter(s): Maia Lieske
   Mentored by: Dr. Joseph Whittaker

P83. “Comparative Analysis of Microlitter Abundance in the Proventriculus, Gizzard, and Intestines of North American Waterfowl”
   Student Presenter(s): Seema Mustafa, Therese Byankuba, Luke Young
   Mentored by: Dr. Jenn Sweatman

P84. “Wild Rice Monitoring Near Tamarac National Wildlife Refuge”
   Student Presenter(s): Sophie Schaumann
   Mentored by: Kent Sundseth

COSS PASSPORT TABLES
Knutson Campus Center Atrium

Visit these tables for information about the services and opportunities they offer to students. Collect a stamp on your COSS Passport at each table.

- Center for Holistic Health
- Center for Student Success
- Archives
- Integrative Learning and PEAK
- Career Center
MENTOR OF THE YEAR AWARD

DESCRIPTION

Mentors can be key to student success. COSS presenters were invited to nominate their mentor(s) for the Mentor of the Year Award. An outstanding mentor demonstrates excellence in a variety of ways, including being a resource for students, guiding them, and providing support throughout the project; facilitating students’ academic and professional growth, encouraging independence, and creating a positive learning environment; and supporting students as whole individuals, engaging with them in meaningful and encouraging ways throughout their project.

MENTOR OF THE YEAR AWARD RECIPIENTS

2013  Dr. Laura Aldrich-Wolfe  
2014  Dr. Aileen Buslig  
2015  Dr. Krys Strand  
2016  Dr. Darcie Sell  
2017  Dr. Ellen Aho  
2018  Dr. Jason Askvig  

2019  Dr. Susan Lee  
2020  Dr. Jenn Sweatman  
2021  Dr. Julie Mach  
2022  Dr. Indira Neill Hoch  
2023  Dr. Joseph Whittaker  
2024  Will be announced at 3:30 p.m.

Thank you mentors!
GRATITUDE

STAFF, VOLUNTEERS, AND DONORS

The COSS URSCA Symposium would not be possible without the many staff and volunteers who help make the day run smoothly. The COSS Steering Committee thanks all of the session chairs, student moderators, competition jury members, COSS Quest assistants, hospitality providers, catering, and the room set-up crews. We would also like to thank all of the donors who have made URSCA possible at Concordia. Research and creative scholarship are transformative experiences for many students and we deeply appreciate the generous philanthropy of donors.

Thank you!

COSS STEERING COMMITTEE

Dr. Krys Strand, Director of URSCA, Associate Professor of Biology, Neuroscience Program Director

Dr. Susan Lee, Associate Professor of Art History, Heritage and Museum Studies Program Director

Allison Koster, Chemical Safety Officer, ISC Building Manager, COSS Competition Coordinator

Justin McDowell, Librarian

Yvette Umutoniwase, Biology and Neuroscience Majors, URSCA Intern

Sharleen Mtesa, Neuroscience and Psychology Majors, URSCA Intern

Timea Vrabcová, Neuroscience Major, URSCA Intern