Dear Students, Faculty, Parents and Friends:

Welcome to Celebrating Scholarship and Creativity Day!

We encourage and support scholarship and creativity in our classrooms, laboratories, and studios on a daily basis. Today, we make this work public. In sessions this morning and afternoon, on into the evening, you will see and hear the fruits of countless hours spent by students and their faculty mentors in science laboratories, library archives, editing suites, rehearsal halls, art studios, and in the community. In poster sessions, talks, and performances students will show us how they’ve challenged themselves and been challenged to think, to analyze, to stretch, to imagine, and to create. It certainly is cause for celebration!

The high quality of work done by our undergraduate research scholars and artists often wins them fellowships and scholarships as well as invitations to state and national undergraduate research conferences. It also opens up new career opportunities. Above all, it gives these students the invaluable opportunity to work in close partnership with the artists and scholars who are our faculty.

Student presentations take place from 8:00-10:00 a.m. and 1:00-5:00 pm. At 10:30 a.m. in the Stephen B. Humphrey Auditorium at SJU, William Cronon will deliver the plenary address, entitled “Kencocott Journey.” Dr. Cronon is a noted environmental historian at the University of Wisconsin, and an award-winning author, researcher, public-minded citizen, and teacher. The lecture will also be broadcast live in the CSB Haehn Center, sustaining our institutional commitment to reducing transportation energy use.

Please join me in congratulating and celebrating our students – the 500 and more who are presenting today as well as the hundreds of others engaged in research and creative scholarship throughout the year. I would like to congratulate the faculty members who mentor, teach, and model scholarly excellence for our students.

Thank you to Dr. Marcus Webster, Dr. Ernie Diedrich, Julianne Gilbert, OSB, Bev Radaich, Communication and Marketing Services, and the Events Staff for their fine work organizing and managing this event.

Thanks, too, to all of you for your continuing support of The College of Saint Benedict and Saint John’s University.

Sincerely,

Rita Knuesel, PhD
Dr. William Cronon is the Frederick Jackson Turner Professor of History, Geography, and Environmental Studies at the University of Wisconsin Madison. Cronon received his B.A. in 1976 from the University of Wisconsin, Madison. He holds an M.A., M.Phil., and Ph.D. from Yale University, and a D.Phil. from Oxford University. Cronon has been a Rhodes Scholar, Danforth Fellow, Guggenheim Fellow, and MacArthur Fellow and has won prizes for his teaching at both Yale and Wisconsin.

Cronon’s research seeks to understand the history of human interactions with the natural world: how we depend on the ecosystems around us to sustain our material lives, how we modify the landscapes in which we live and work, and how our ideas of nature shape our relationships with the world around us.

He is the author – along with many scholarly essays and research papers -- of *Changes in the Land: Indians, Colonists, and the Ecology of New England*, a study of how the New England landscape changed as control of the region shifted from Indians to European colonists; *Nature’s Metropolis: Chicago and the Great West*, which examines Chicago’s relationship to its rural hinterland during the second half of the nineteenth century. He co-edited *Under an Open Sky: Rethinking America’s Western Past*, a collection of essays on the prospects of western and frontier history in American historiography, and *Uncommon Ground: Rethinking the Human Place in Nature*, examining the implication of different cultural ideas of nature for modern environmental problems. Dr. Cronon was recently a contributor to the documentary film "The National Parks: America’s Best Idea" produced by Ken Burns and Dayton Duncan.

He is presently writing a history of Portage, Wisconsin, from the end of the last Ice Age down to the present. It will explore how people’s sense of place is shaped by the stories they tell about their homes, their lives, and the landscapes they inhabit. He is also completing a book entitled *Saving Nature in Time: The Environmental Past and the Human Future* on the evolving relationship between environmental history and environmentalism, and what the two might learn from each other.
The Day Before: April 27th

Two events marking our colleges’ commitment to exemplary scholarship and creativity are scheduled for the day before.

**PHI BETA KAPPA CEREMONY AND BANQUET**
*Haehn Campus Center, CSB*

A new chapter of the nation’s oldest academic honor society, Phi Beta Kappa, was established in 2009 at the College of Saint Benedict and Saint John’s University. The Theta Chapter of Minnesota will induct its first student members, selected on the basis of excellence in academic achievement in the liberal arts and sciences.

Alumnae Hall
5 p.m. Chapter Installation and Induction of Students
6:30 p.m. Banquet (by invitation)

**ERIC REGO BIG IDEA COMPETITION**
*Sexton Commons Lounge, SJU*

5:45 – 9:00 p.m. All students are invited to present an idea that would make the world, or things in it, better. Individuals or teams first submit a venture idea description online by April 23rd and then describe the idea in a 90 second “elevator pitch” to a panel of judges. Winners receive cash prizes and, if they wish, promotion of their idea on campus, to alumni and to the local community. The Donald McNeely Center for Entrepreneurship annually sponsors this event in memory of Eric Rego, an E-Scholar student alumni of Saint John’s who passed away in 2008. The competition is open to all CSB/SJU students.

Everyone is welcome to join the audience.

5:45-8:30 p.m. Presentations for the Panel of Judges. E-Scholars present their pitch during the last hour of competition.

8:45 p.m. Winners announced
2010 Scholarship and Creativity Day Schedule

ABBREVIATED SCHEDULE OF EVENTS

7:30-8:45 a.m.  Continental breakfast for all
                Great Hall and Peter Engel Science Center, SJU
                Flagpole Mall, CSB

8-10 a.m.      Student presentations — various locations, CSB and SJU

10:30 a.m.     Speaker: Dr. William Cronon, Stephen B. Humphrey Auditorium, SJU

12-12:50 p.m.  Lunch at SJU Refectory or CSB Gorecki Dining and Conference Center
                On your own.

1-4 p.m.       Student presentations — various locations, CSB and SJU

4-5 p.m.       Receptions — various locations, CSB and SJU
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FULL SCHEDULE OF STUDENT PRESENTATIONS

FINE ARTS SYMPOSIUM I
Benedicta Arts Center, CSB

Art and Music — Moderator: Rachel Melis

BAC 104
9 a.m. KATHERINE ELLIS (Dr. Rachel Melis, Art).
Choosing your destiny; how feminism affects fairy tales.

9:30 a.m. NICHOLAS A. PALMQUIST (Dr. O. Nicholas Raths, Music).
Music and China: a sojourner’s tales.

10 a.m. BENJAMIN HANSBERRY (Dr. Brian Campbell, Music, and Dr. Emily Esch, Philosophy).
Phenomenology as a basis for music-theoretical claims.

Gorecki Dining and Conference Center

Musical Performance – String Quartet Recital

GDCC
Fireside Lounge String Chamber Ensembles

2:15-3:30 p.m. JOHN LEIGHTON, PEDER JACOBSON, MARIANNE LUETMER and CHARLOTTE ROGERS (Lucia Magney, Music)

XIN PIAO, JENNA FRANKLIN, MICHAEL PEIFFER and JOSEPH BERNS (Lucia Magney, Music)

CARLIN STILES, MATTIE ERNST, GANNON McGrath and NICOLAS MATTHEES (Lucia Magney, Music)

ANNA WIGTIL, AMANDA OLSEN, MICHAEL PEIFFER and EMILY NIEVES (Lucia Magney, Music)

CHELSEA PARKER, CHARLES RYGH-WALLIN, KATHERINE MANDELIN and BRIANNA JENSEN (Lucia Magney, Music)
FINE ARTS SYMPOSIUM II
Benedicta Arts Center, CSB

Theater
BAC A108
1-2 p.m.  MEGHAN GUNDERSON, KURT OOSTRA and EVAN SCHUMACHER (Dr. Kaarin S. Johnston, Theater). The Don’t Abandon Me collaboration.

2:30 p.m.  JENNIFER RICHTER (Dr. Kaarin S. Johnston, Theater)
Teaching Chinese culture through children’s theater

2:50 p.m.  JARED SHERLOCK (Dr. Kaarin S. Johnston, Theater).
Entrepreneurship in theater: producing a theatrical production; managing Night Games.

3:00 p.m.  MASON MAHONEY (Dr. Kaarin S. Johnston, Theater).
Acting and directing a two-person show: Dutchman.

3:30 p.m.  AMANDA FORSTROM (Dr. Kaarin S. Johnston, Theater).
Acting and directing a two-person show: Dutchman.

4 p.m.  PHIL JOREGENSEN (Dr. Mark Hennigs, Theater).
Time, space, and mood: transporting the audience of Macbeth.

4:20 p.m.  KEVIN SPRINGER (Dr. Mark Hennigs, Theater).
Time, space, and mood: transporting the audience of Macbeth.

4:40 p.m.  ASHLEY M. BUDDE (Leigh Dillard, Theater).
The exploration and creation of theatre for young audiences.

5 p.m.  PAULA TRAUT and KEVIN SPRINGER (Dr. Samuel Johnson, Art, and Dr. Mark Hennigs, Theater).
The combined experience of minimalist ceramic art and sound.
HUMANITIES SYMPOSIUM I — HISTORY AND AREA STUDIES
The Quadrangle, SJU

Quad 135, Dunstan Tucker Room
8:30-10 a.m.

Latin American and Latino Studies

Student conversations about their work on capstone projects over breakfast.
(Dr. Corey Shouse Tourino, Hispanic Studies)

History
Quad 339
Concurrent Session A: World War II in European Memory

8:30 a.m. ANDREW KLEINENDORST — Amnesia and identity suppression: postwar memory of the occupation of Alsace, 1944-1953.


9:30 a.m. NICOLE N. HOCHSPRUNG — A new victory: How the Russian Federation remembers the Great Patriotic War.

Quad 343
Concurrent Session B: Great Britain and the Empire
Moderator: Gregory Schroeder

8:30 a.m. ARIEL MEISTER — Unity in a palace: The Great Exhibition of 1851 in a class driven society.

9 a.m. SARAH DAYTON — “Goodbye Mother! I hope we get to see each other again”: The movement of children out of London during the Blitz attacks of World War II.

9:30 a.m. DAVID J. SANDAGER — Red Terror in Rhodesia: the Rhodesian government’s understanding of communism.
Quad 344  Concurrent Session C: Tuskegee Airmen in History//Promoting Oral Health in China — Moderator: Gregory Schroeder

9 a.m.  JORDAN B. WEIR — Lost in history: the Tuskegee Airmen’s struggle for equality.

9:30 a.m.  MEGAN A. KACK — The promotion and marketing of advanced oral health technology in China.

Quad 347  Concurrent Session D: Asian Stereotypes (video presentation) — Moderator: Richard Bohr

8:30-10 a.m.  JOSH MEUWISSEN, ANDREW WISNIEWSKI, ANDREW FORKES-GUDMUNDSON, BRITTANY BOKOVY, RYAN GOTT and BRADLEY STUDNISKI (Dr. Richard Bohr, History)

Quad 349  Concurrent Session E: Inventing the Conquest of Mexico
Moderator: Brian Larkin

9-10 a.m.  HI 200 Sophomore Colloquium
JOHN EUTENEUER, ADAM LISKE, PATRICK MASON, MAXWELL McHUGH, JACOB MORRIS, JOHN MOUA, ALEXANDER OBERMEYER, MATTHEW PALMQUIST, TAYLOR PETERSON, JOSEPH PETRZELKA, DREW STOMMES, MATTHEW TRICHE, BRYAN WACHTER, TIMOTHY WATTENHOFER, PHILLIP WHITCOMB and CHENG XIONG (Dr. Brian Larkin, History)
HUMANITIES SYMPOSIUM II — LITERATURE, LINGUISTICS AND CREATIVE WRITING

The Quadrangle, SJU

Linguistic Explorations and Discoveries — Moderator: Ozzie Mayers
Quad 361
8 a.m. TAYLOR M. HAMILTON (Dr. Ozzie Mayers, English)
Slang and its importance in culture

8:20 a.m. LAURA E. KINOWSKI (Dr. Ozzie Mayers, English)
Language immersion education: the path to a multilingual world

8:40 a.m. NICHOLAS G. KURTZ (Dr. Ozzie Mayers, English)
Appreciating Tolkien’s Elvish

9:10 a.m. NICHOLAS F. MAYHEW (Dr. Ozzie Mayers, English)
A trek into the Klingon language

9:30 a.m. SAMANTHA OWENS (Dr. Ozzie Mayers, English)
Reading acquisition and linguistic correlation

Literature and Creative Writing — Moderator: Christina Shouse Tourino
Quad 261
1 p.m. KIRA GARRETT (Dr. Cynthia Malone, English)
The future of the book

1:20 p.m. MEGAN SINNER (Dr. Cynthia Malone, English)
Harry Potter, the Chronicles of Narnia, and the Gospels: the implications of gender roles in savior narratives

1:40 p.m. MATT DALEY (Dr. Christina Shouse Tourino, English)
“Coining” black into white

2 p.m. MATTHEW T. BECK (Dr. Anna Lisa Ohm, Modern and Classical Languages)
Immigration and the German school system: a Freirean perspective
Quad 261  Creative Writing — Moderator: Matt Callahan

2:30-4 p.m.  The students in English 313 Advanced Creative Writing will read a selection of “Flash Fiction” pieces they have written and revised during the semester. Flash fiction (also known as sudden fiction, short-shorts, micro fiction, etc.) is loosely defined as a short story that averages approximately 500 words in length; has a beginning, middle and end; and arrives at some sort of final point or punch. This point is just as often emotional or psychological as it is intellectual.

ANA K. BAUMGARTNER, JOHN K. BUCKEYE, BRUCE P. FRANK, DUSTIN R. FRANTA, SARA J. GARDNER, ERIN R. HERBERG, THOMAS A. HIGGINS, KATYA M. KARAZ, THERESA K. KERR, MEGAN L. MILLS-RETTMANN, STEVEN W. POSTHUMUS, JACOB S. SCHUMACHER, FREDRICK M. SOUKUP, ANGELA M. TATE and BRITA M. THIELEN (Matt Callahan, English) Flash Fiction

Quad 353  Communication and Leadership — Moderator: Richard Ice

8 a.m.  SAM PILNEY (Dr. Richard Ice, Communication)
Aristotle and stasis theory

8:30 a.m.  ANGELA TATE (Dr. Richard Ice, Communication)
Plato’s Phaedrus and Apology: illustrations of Socrates’ rhetorical consistency

9 a.m.  KELSEY GERMAN (Dr. Richard Ice, Communication)
Cicero’s theory of ethos and its use in judicial speech

9:30 a.m.  BENJAMIN SEHNERT (Dr. Richard Ice, Communication)
Ecclesia Gentilium?: the metaphorical use of the Jewish Temple Cultus among the early Christians
HUMANITIES SYMPOSIUM III — THEOLOGY — Moderator: Kathryn Cox

Quad 360

8 a.m.       SHANNON PRESTON (Dr. Kathryn Cox, Theology)
             Christian teaching on food applied to artificial nutrition and hydration

8:20 a.m.    BENJAMIN SEHNERT (S. Mary Forman, O.S.B., Ph.D., Theology)
             The pure love of the bridegroom: St. Macrina as the bride of the Song of Songs

HUMANITIES SYMPOSIUM IV — LANGUAGES AND LITERATURE

Henrita Academic Building, CSB

Chinese Language and Culture — Moderator: Sophia Geng

HAB 121

8 a.m.        Poster Session — Moderator: Sophia Geng

             GARRET BASSET, LINDSAY BRULL, HIBES GALENO and ADRIANNA RIVERA (Dr. Sophia Geng, Modern and Classical Languages)
             Chinese New Year and its importance in Chinese culture

8:20 a.m.     BRANDON GORMAN, MATT LAINE, POR CHEE LEE and SHANNON O’NEIL (Dr. Sophia Geng, Modern and Classical Languages)
             Qin Shi Huangde, the first Emperor of China

8:40 a.m.     SYDNEY HENDERSON, JENNY KELLER and ABBY PETERSON
               (Dr. Sophia Geng, Modern and Classical Languages)
               Music history of China

HAB 121

Oral Presentations — Moderator: Sophia Geng

1 p.m.        JEREMY IVERSON, MEGAN KACK, YIK-PANG NGAN and DIEM TRINH (Dr. Sophia Geng, Modern and Classical Languages).
               A Comparison of University Culture in the United States and in China.

1:15 p.m.     LEE MOUA and NGA TRAN (Dr. Sophia Geng, Modern and Classical Languages)
Languages)

**Income Inequality in China**

1:30 p.m.  JACOB GILBERT, ANDREW MORISS and CHARLES WOODRUFF  
(Dr. Sophia Geng, Modern and Classical Languages)  
**A brief history of China**

1:45 p.m.  ZACHARY BOEVER, NICHOLAS A. PALMQUIST and KEVIN CHOW  
(Dr. Sophia Geng, Modern and Classical Languages)  
**Chinese education.**

2:30 p.m.  MARISSA K. ORAM, KIM R. DeBEER, JULIA M. FRAYNE, JOSHUA D.  
MORTENSON and KATIE M. NELSON (Dr. Sophia Geng, Modern and Classical Languages)  
**Chinese food**

2:50 p.m.  NICK LAHTI and VICTORIA LY (Dr. Sophia Geng, Modern and Classical Languages)  
**Catholicism in China**

3:10 p.m.  TAYLOR PETERSON, REDMOND FRASER and PHILIP WHITCOMB  
(Dr. Sophia Geng, Modern and Classical Languages)  
**Chinese medicine: a modern approach to a traditional practice**

3:30 p.m.  JACOB N. WALETZKO and ABBIE HELMINEN (Dr. Sophia Geng, Modern and Classical Languages)  
**Regional diversity across China**
## HUMANITIES SYMPOSIUM V — LANGUAGES AND LITERATURE

*Henrita Academic Building, CSB*

### Hispanic Studies

**HAB 101**

**Concurrent Session A — Moderator: Gladys White**

1 p.m.  AARON S. FELIX (Dr. Gladys White, Hispanic Studies)

*Historical memory in Spain*

1:20 p.m.  AMANDA FORSTROM (Dr. Gladys White, Hispanic Studies)

*Chicano theatre monologue presentation*

1:40 p.m.  SOPHIE MORELLI (Dr. Gladys White, Hispanic Studies)

*La diferencia de la lingüística entre los géneros: La creación de la oppression de las mujeres*

2 p.m.  DAVID JOHNSON (Dr. Elena Sanchez-Mora, Hispanic Studies)

*Are we on the same page?*

2:20 p.m.  MATTHEW HEITKAMP (Dr. Nelsy Echavez-Solano, Hispanic Studies)

*Revitalization of Mayan languages in Guatemala*

2:40 p.m.  LEAH PETERMEIER (Dr. Nelsy Echavez-Solano, Hispanic Studies)

*Spain: a mosaic of language diversity*

**HAB 102B**

**Concurrent Session B — Moderator: Tania Gomez**

1:00 p.m.  ALYSSA HOFF (Dr. Christina Hennessy, Hispanic Studies)

*Mother Teresa and San Manuel Bueno: holiness, doubt and sacrifice*

1:20 p.m.  DAVID HARRISON (Dr. Tania Gomez, Hispanic Studies)

*Language in contact: Spanish, Quechua, and Aymara*

1:40 p.m.  SHALANE REEVES-TORKELSON (Dr. Tania Gómez, Hispanic Studies)

*Interpretation in the courtroom: characteristics, linguistic conflicts, and the future*
2 p.m. ANDREW STEVENS (Dr. Tania Gómez, Hispanic Studies)
Investigation of modern day seseo and ceceo in Spain from a sociolinguistic perspective

2:20 p.m. ASHLEY SINNEN (Dr. Tania Gomez, Hispanic Studies)
Immersion schools: preparing the students of today for tomorrow

2:40 p.m. KENDRA WILLHITE (Dr. Christina Hennessy, Hispanic Studies)
Interpretación psicoanalítica del simbolismo en El Cuarto de Atrás de Carmen Martin Gaite

3 p.m. ERIN YATES (Dr. Christina Hennessy, Hispanic Studies)
Los deseo incumplidos: frustración e impotencia femeninas en Lorca

Concurrent Session C — Moderator: Roy Ketchum

HAB 106
1 p.m. EMILY BUGGY (Dr. Roy Ketchum, Hispanic Studies)
Los cartoneros de Buenos Aires

1:20 p.m. MARY M. CROSBY (Dr. Eleonora Bertranou, Hispanic Studies)
Family planning and birth control among the indigenous population of Guatemala

1:40 p.m. MEGHAN CHIRPICH (Dr. Eleonora Bertranou, Hispanic Studies)
Similar themes, different styles: the poetry of Walt Whitman and Pablo Neruda

2 p.m. TOM HICKEY (Dr. Roy Ketchum, Hispanic Studies)
The conflict over the Tambogrande Mine in Peru: cross-cultural differences in perceptions of wealth

2:20 p.m. JENNA MILLER (Dr. Roy Ketchum, Hispanic Studies)
Macho no significa mucho: La representación de la masculinidad en El Matadero de Esteban Echeverría

2:40 p.m. DOUG TRUMM (Dr. Roy Ketchum, Hispanic Studies)
Portavoz: Marcos as an exemplary organic intellectual

3 p.m. KATHERINE H. WESTLUND (Dr. Roy Ketchum, Hispanic Studies)
Indigenous assimilation in Peru: past and present

Concurrent Session D — Moderator: Corey Shouse Tourino

1 p.m. MELISSA M. FUJAN (Dr. Corey Shouse Tourino, Hispanic Studies)  
Drug resistant tuberculosis in South America: how new cures breed molecular epidemics and threaten human rights

1:20 p.m. EDWARD HOOLEY (Dr. Corey Shouse Tourino, Hispanic Studies)  
¿Ayudaron las políticas económicas de la dictadura de Augusto Pinochet a la gente de Chile? Un análisis de los impactos económicos de la implantación del neoliberalismo en Chile

1:40 p.m. SARAH VANNESTE (Dr. Corey Shouse Tourino, Hispanic Studies)  
La cara de la pobreza y la clase social baja en Chile

2 p.m. RACHEL M. VANDERHEYDEN (Dr. Corey Shouse Tourino, Hispanic Studies)  
Un empuje para un Chile bilingüe

2:20 p.m. ABBY WALCH (Dr. Corey Shouse Tourino, Hispanic Studies)  
Saving a democracy by first destroying it: the fall of democracy in Chile

2:40 p.m. KATHRYN EBBEN (Dr. Ron Pagnucco, Peace Studies and Dr. Gladys White, Hispanic Studies)  
Mexican immigration in Green Bay, Wisconsin

Concurrent Session E — Moderator: Nelsy Solano

HAB 119

1 p.m. HANNAH KOPREK (Dr. Nelsy Echavez-Solano, Hispanic Studies)  
El aprendizaje del español como segunda lengua/Learning Spanish as a second language

1:20 p.m. LARISSA RANVEK (Dr. Nelsy Echávez-Solano, Hispanic Studies)  
El hablar en congo: Un lenguaje afrohispánico de los negros congos de Panamá
1:40 p.m. CHRISTIN TOMY (Dr. Roy Ketchum, Hispanic Studies)
Banco Esperanza: Using Micro-Credit to Empower Low-income Hispanic Women in Rural Minnesota

2 p.m. ANGELA LEINEN (Dr. Sarah Schaaf, Hispanic Studies)
El Camino de Santiago: A Reflection on my Experiences and Discoveries

2:20 p.m. CAITLIN RIES (Dr. Bruce Campbell, Hispanic Studies)
El maíz en México: la tradición y la amenaza de la modificación genética

2:40 p.m. HAYLEY BERRISFORD (Dr. Bruce Campbell, Hispanic Studies)
Los murales como un puente cultural en el Distrito de Sol: Sharing Chicano culture and identity with the many ethnicities of Minnesota’s Twin Cities

3 p.m. KATELYN ENGEL (Dr. Bruce Campbell, Hispanic Studies)
La agricultura andina: la tradicional contra la moderna

*Henrita Academic Building Lobby, CSB*

3-4 p.m. **Hispanic Studies Reception**
**HUMANITIES SYMPOSIUM VI — LANGUAGES AND LITERATURE**  
*The Quadrangle, SJU*

**Quad 252**  
French Language & Literature — Moderator: Charles Villette

1 p.m.  
LAURA BEACH (Dr. Charles Villette, Modern and Classical Languages)  
*Les Personnages Secondaires: Les Porte-Paroles de Voltaire dans Candide*

1:20 p.m.  
LAURA BUGGY (Dr. Karen Erickson, Modern and Classical Languages)  
*Green Travel à la française: « Pour que les déplacements aujourd'hui alternatifs soient demain la norme »*

1:40 p.m.  
NATALIE HAMILTON (Dr. Camilla Krone, Modern and Classical Languages).  
*Women and power in Balzac and Maupassant.*

2:30 p.m.  
ANN KOLLER (Dr. Karen Erickson, Modern and Classical Languages).  

2:50 p.m.  
MICHELLE R. EBERHARD (Dr. Charles Villette, Modern and Classical Languages).  
*Haute trahison?: Petain et le regime Vichy*

3:30 p.m.  
SHALANE REEVES-TORKELSON (Drs. Nathaniel Dubin and Camilla Krone, Modern and Classical Languages).  
*Interprétation en les cours : Caractéristiques, conflits linguistiques et l’avenir*

**Quad 254**  
German Language and Literature — Moderator: Mark Thamert

1 p.m.  
TERESA WALCH (Dr. Mark Thamert, OSB, Modern and Classical Languages).  
*Supporting a myth: the effect of Vienna’s post-World War II monuments on Austrian identity, 1945-1955*

1:20 p.m.  
CHRISTEN BECKSTRAND (Dr. Andres Kiryakakis, Modern and Classical Languages)  
*Music as political tool: the role of music as propaganda in Nazi Germany (1933-1945)*

1:40 p.m.  
2:30 p.m.  
GREG SANDQUIST (Dr. Anna Lisa Ohm, Modern and Classical Languages)
The Berlin Airlift: the start of the US-German relationship

2:50 p.m.  JAY RANFRANZ (Dr. Mark Thamert, OSB, Modern and Classical Languages)
How far is too far? A comparison of Nazi eugenic movements during World War II with today’s developments in modern eugenics

3:10 p.m.  DAN SALAY (Dr. Anna Lisa Ohm, Modern and Classical Languages)
The significance of the word Volk [German people] from the Romantic Period to today

3:30 p.m.
HAB 118 Concurrent Session A — Femininity, Masculinity and Feminism: What’s at Stake in Defining Each? Moderator: Shane Miller (Communication and Gender and Women’s Studies)

1 p.m. BRENNA FINLEY. Male antagonists and the wasted allies: how the demonization of men in fascist films hinders gender equity.

1:25 p.m. JAMIE WELLE. Playboy and the expansion of traditional masculinity.

1:50 p.m. CATHERNINE WESTLUND. Woman and the new race: is Margaret Sanger a feminist?

HAB 118 Concurrent Session B — Moderator: Jean Keller

2:30 p.m. ALYSSA JOHNSON, CAROLYN M. VANDELAC, and KAYLA WARD (Dr. Jean Keller, Philosophy & Gender and Women’s Studies). Scream quietly or the neighbors will hear … domestic violence.

2:50 p.m. SHAWN THURSTON (Dr. Jean Keller, Philosophy & Gender & Women’s Studies). Women batterers: the new face of oppression.
SOCIAL SCIENCES SYMPOSIUM I — POLITICAL SCIENCE

Main Building, CSB
First Floor

Political Science 114: Public Policy Analysis and Recommendation —
Moderator: Jim Read

TRC Board Room
1 p.m.      MAI XIONG — Protecting Hmong Refugees in Thailand and Laos.
1:10 p.m.   VALENTIN SIERRA — The Federal Reserve and regulating financial risk.
1:20 p.m.   KELSEY MINTEN — Education of women and girls in developing world.
1:30 p.m.   RONGFEI GOU — Ending Military Sales to Taiwan.
1:40 p.m.   SYDNEY HENDERSON — American Consulate for Tibet.
1:50 p.m.   ADAM LISKE. High-speed passenger rail for the US.
2 p.m.      IAN GOLDSMITH — Extending light rail to St. Paul.
2:10 p.m.   AMY HOESCHEN. — Pedestrian and bicycle-friendly infrastructure for St. Cloud.
2:20 p.m.   BRENNA FINLEY. Maple Grove planning for aging population.
2:30 p.m.   KATHRYN HAUFF — Flood prevention in Fargo.
2:40 p.m.   DAN WOLGAMOTT — Tax policies to stimulate economy.
2:50 p.m.   SAM BROWN — Limiting pollution from Hennepin County incinerator.
3 p.m.      FELIPE NIEVES-JIMENEZ — Making CSB/SJU more welcoming for cultural diversity.
3:10 p.m.   TYLER CARLEN — Political involvement and Supreme Court justices
Main Building, CSB
Ground Floor

Thesis Presentations in Political Science – Moderator: Kay Wolsborn

Main 006
2:30 p.m. KELLIANNE M. LAUER (Dr. Kay Wolsborn, Political Science)
Shaping U.S. foreign aid: incrementalism, policy networks and food aid policies

2:50 p.m. ZACHARY J. LIEBL (Dr. Kay Wolsborn, Political Science)
Project Fraternity: combating sexual aggression on college campuses

3:10 p.m. VALENTIN SIERRA (Dr. Matt Lindstrom, Political Science)
Mission challenges of the U.S. Federal Reserve as systemic risk regulator

3:20 p.m. MICHAEL R. JOHNSON (Dr. Philip Kronebusch, Political Science)
How to effectively & accurately measure judicial activism: an examination of current empirical approaches

3:40 p.m.
SOCIAL SCIENCES SYMPOSIUM II – ECONOMICS

Main Building, CSB

1-4 p.m. Presentations will be on 1st and 3rd floors. A comprehensive schedule is available at the entrance to Main. **Moderator: John Olson**

NICHOLAS BLANCO — An economic analysis of improving energy consumption in single family homes

IAN BOUMAN — The effectiveness of the Federal Reserve’s Term Asset-Backed Securities Loan facility.

SHAWN BUERMANN — Production costs and prices of milk

SEAN CANNON — Current and past recessions of the United States: a comparison of macroeconomic components.

MARCUS CONWAY — Developments in the economics of hog production.

DYLAN DECKER — An analysis of the efficient markets hypothesis: earnings growth and share prices.

BRADY DEVAAN — How do retail gasoline prices respond to changes in crude oil prices?

ETHAN EID — Explaining the U.S. personal savings rate since 1980.

MITCHELL FAUST — A look at the growth experience of Hong Kong.

JOE FELDMEIR — Testing the efficient market hypothesis in the National Football League betting market.

DEANGELA FERGUSON — Education and economic growth in the Bahamas since independence.

KEVIN FUCHS — Sovereign wealth funds.

SARA HOFFMAN — Understanding U.S. household savings
EDWARD HOOLEY — *La apertura neoliberal*: a comparison and contrast of trade policy reforms in Pinochet’s Chile and Franco’s Spain

PATRICK BRENNAN HOOLEY — The effectiveness of access to sustained clean water sources for increasing economic productivity

JACOB KOEHLER — An analysis of U.S. trade during recessions

CHELSEA KOLB — An economic analysis of Minnesota state aid to counties.

ADAM LARSON — Did slavery slow the growth of southern railroads?

JAMES LATTERELL — What is causing banks to hold excess reserves?

ANG LI — A study on the relationship between stock prices and trading volume.

JEFFREY LUDWIG — An economic analysis of public transportation use and its effect on unemployment.

ELIZABETH McMURRAY — An economic analysis of the effects of ethanol production on livestock and livestock feed markets.

DREW McPHERSON — Does an increase in patent activity lead to economic growth?

MIKE MEEHL — Effects of export prices on the Bolivian economy: an analysis using the market for tin.

KEVIN NEAL — How tax rates affect the proportion of workers with health insurance.

RYAN NOACK — The effect of recent recessions on unemployment duration.

BRYAN RAUSCH — Supply and demand’s contributions to corn price volatility.
Nicholas Retzlaff — The NBA minimum age policy from a player's perspective: an economic analysis of determining when to turn pro.

Michael Roering — Marginal tax rates and total factor productivity growth in manufacturing.

Michael SchmaLEN — The economics of migratory bird hunting.

Elizabeth Schmidtke — An economic analysis of Switzerland's neutrality.

Carson Sievert — Play for Pay: the effects of “walk year” performance on Major League Baseball free agent contracts.

Mark Sonkin — Agriculture policies in China, 1978 to the present.

Michael Steck — NAFTA’s effects on U.S. trade.

Nick Ukestad — A Cost-Benefit analysis of smart metering

Matthew Vierling — The Treaty of 1837 and the quota system on Lake Mille Lacs.

Michael Wollmering — The effects of human capital accumulation on Minnesota’s economic growth.

Peter Woodruff — The effect of the U.S. budget deficit on consumption — testing the Ricardian Equivalence Proposition.

Main Building, CSB
Third Floor Rotunda
4-5 p.m. Economics Reception
SOCIAL SCIENCES SYMPOSIUM III – PSYCHOLOGY

New Science Center, SJU

NSC 140

Psychology Poster Session — Moderator: Linda Tennison

8-10 a.m.

KATHRYN BARON, LINDSEY HOLM, EMILY MILER and JOY POHLAND (Dr. Laura Sinville, Psychology). The impact of jealousy and romantic love on our perceptions of others.

BRENT CRAWLEY, ANDREW J. GUSTAFSON, MICHELLE A. PICKLE and others (Dr. Aubrey Immelman, Psychology). The political personality of former presidential contender John Edwards

ALISON GRESBACK (Dr. Stephen Stelzner, Psychology). Emotional intelligence development in children through play.

CHELSEA JENSON (Dr. Richard Wielkiewicz, Psychology). The relationship between service-learning beliefs about leadership and morality.

STEPHANIE KAPLAN and EMILY NOVAK. Memory based on emotion.

ALEXANDRA L. LENZEN, GREGORY M. SULLIVAN, FERNANDO B. VILLARES and others (Dr. Aubrey Immelman, Psychology). The political personality of former Alaska Governor Sarah Palin.

AMY MARSCHALL and MICHAEL KEEGAN (Dr. Linda Tennison, Psychology). The effects of chronic mild stress on the ability to perform the DRL-72 schedule in rats.

GREGORY M. SULLIVAN (Dr. Aubrey Immelman, Psychology) The Political Personality of Russian Federation President Dmitry Medvedev
Psychology Honors Theses — Moderator: Pamela Bacon

NSC 146

1 p.m.  ANNEMIEKE LAGERWAARD (Dr. Pamela Bacon, Psychology).  
The relationship between self-theories, emotion, and coping.

1:30 p.m.  CHRISTY CATrina oI yAN jING chaN (Dr. Linda Tennison, Psychology).  The relationship between family environments and the first year transition
ENVIRONMENTAL STUDIES POSTER SESSION
Great Hall, The Quadrangle, SJU

2:30-4 p.m. In this session, senior Environmental Studies majors present their thesis research in poster format. Each thesis focuses on a specific environmental problem or issue which is addressed from an interdisciplinary perspective, illustrating the connections between Environmental Studies and a wide range of other disciplines. **Moderator: Jean Lavigne**

RICHELLE CAYA (Dr. Jean Lavigne, Environmental Studies).  
**Restoring a legacy: reintroduction of the American Chestnut.**

SHANNON CONK (Dr. Jean Lavigne, Environmental Studies, and Dr. Matt Lindstrom, Political Science). **A school food revolution: identifying and overcoming barriers to meaningful school lunch reform.**

PATRICK CRANE (Dr. Jean Lavigne, Environmental Studies).  
**Revegetation of fly ash dumps.**

TREVOR DRAKE (Dr. Jean Lavigne, Environmental Studies, and Dr. Matt Lindstrom, Political Science). **Coop culture: urban chicken farming as a response to food distancing.**

MELISSA GEARMAN (Dr. Jean Lavigne, Environmental Studies, and Dr. Bill Lamberts, Biology). **Toxic fire: effect of forest fires on mercury contamination in lakes.**

EMILY KROGH (Drs. Jean Lavigne and Diane Veale-Jones, Environmental Studies). **Food for thought: organic food items in Saint Cloud grocery stores.**

IPHIGENIE NSHUTINYAYO (Dr. Jean Lavigne, Environmental Studies, and Dr. Ernie Dietrich, Economics). **Recycling yourself: the most sustainable option to dispose of human remains.**

BRENDAN SHEEHAN (Dr. Jean Lavigne, Environmental Studies, and Dr. Jeffrey Anderson, Peace Studies). **DDT and malaria.**
MATTHEW STASICA (Drs. Derek Larson and Jean Lavigne, Environmental Studies). **Canada Thistle: best management practice**

RYAN WIMMER (Dr. Jean Lavigne, Environmental Studies, and Dr. Bill Lamberts, Biology).

**The Rusty Crayfish: Is it beneficial to Minnesota waterways?**

**Environmental Studies GIS Project Forum:** The GIS Project Forum provides an opportunity for students in the Geographic Information Systems course to share their final mapping projects with the larger campus community. The majority of the projects are collaborations between the students and faculty or staff members who have requested help with creating maps. Examples range from creating a new map of the St. Ben’s woods to looking for patterns in which Minnesota high schools have qualified for state sports tournaments in the past five years. Students will be looking for new projects in the fall, so stop by for inspiration for your own mapping project. **Moderator: Jean Lavigne**

MELISSA J. BACH, JENNIFER BORAN, SHANNON CONK, MATTHEW COULTER, STEVEN DAHLKE, JEFFREY GILBERTSON, SUSANA GONZALEZ, KYLE JANSKY, KELSEY KIRCHER, MARNIE McINNIS, HADLEY McINTOSH, COLIN OWENS, BENJAMIN RIETZ, BRYAN RODRIGUEZ, NICHOLAS SHULTE, JUSTIN STANGLER and ASHLEY VER BURG.
EDUCATION POSTER SESSION

*Henrita Academic Building, CSB*

Elementary education majors and secondary science education minors investigate issues in the field of education. Students address a range of topics including student achievement, teacher best practices and content standards.

HAB 128

1-2:30 p.m. KAITLIN L. BECKER, MARGARET S. BURBACH, ASHLEY M. CARLISLE, ELIZABETH A. DUBAY, KARA J. EHLERT, BENJAMIN S. HOGAN, RACHEL C. INDIHAR, TIMOTHY R. JUBA, LAURA E. KINOWSKI, PAUL W. LARSON, MELINDA M. LAWSON, ERIC P. LEE, MEGHAN M. LICHTER, NICOLE A. MASLOWSKI, DAVID G. MASSEY, SARA E. MIESEN, MOLLY L. PETERSON, KATHERINE M. SAUER, ASHLEY M. SINNEN, AMY E. STIFTER, KELCIE M. TSCHIDA, and LAUREN C. ZWOLENSKI (Dr. Karen M. Bengtson, Education)

FIRST-YEAR SEMINAR POSTER SESSION

*Haehn Campus Center, CSB*

Alumnae Hall Janna LaFountaine’s (Physical Education) FYS class considered topics of sports and recreation and their place in society.

1-2:15 p.m.

OMAR ABDULLAHI — **Soccer As a vehicle for peace.**

ALEX CARLSON — **Is it really an uneven playing field?**

CHUHU A. CHA — **Religion and sport being friends or foe.**

MICHAEL CHHOUN — **Can I have a piece?**

SHOPIE KEM — **Technology and sports.**

ASHLEY LAUDENBACH — **Building a better youth through strength training.**

RYAN LONGLEY — **The slippery slope of ski resorts: can going green save the mountains?**

FATIMA MEDINA — **Driven into disordered eating.**
DAVID NAUGHTIN — BCS or college football playoff.

ASHLEY OLSON — Champions keep studying.

JASCHA PETTIT — Hunting benefits all.

MARY RYMANOWSKI — Effects of parent-coaches on children in sports.

DUSTIN SCHLANGEN — Opportunities from Title IX.

MEGAN SCHMIDT — Rebel without a brand.

ELIZABETH STOCKER — Fighting Sioux logo: a racist or respectful representation.

AXEL WIKSTROM — Participation or not — The U.S. debate over the 1936 Olympics.
SOCIAL SCIENCES SYMPOSIUM IV
Ardolf Science Center, CSB

PHYSICAL EDUCATION — Moderator: Don Fischer

ASC 142
8 a.m. CALLIE HARP and NICK KOHLER (Dr. Don Fischer, Physical Education)
The effect of maximal effort upper extremity ergometer versus lower extremity ergometer on heart rate and blood lactate levels in physically active females

8:20 a.m. KRISTEN HERGES and TOMMY PURNELL (Dr. Don Fischer, Physical Education)
The effect of using the V-force on whole body vibration intervention on the vertical jump height of female college students

8:40 a.m. MARK ISAACSON (Dr. Don Fischer, Physical Education)
The effectiveness of interval training in preparing for the demands of an intercollegiate women’s hockey practice and game

9 a.m. ABBY NEIGEBAUER and MIKE POWERS (Dr. Don Fischer, Physical Education)
The difference in blood lactate after completing a 200-meter race and an 800-meter race

1 p.m. EMILY REINERT (Dr. Don Fischer, Physical Education)
What is the effect of using the V-force total body vibration machine on the vertical jump height of csb volleyball players?

1:20 p.m. MIKE STILLER and CHASE ENDRES (Dr. Don Fischer, Physical Education)
Acute effect of V-force vibration stretch training on “sit and reach” flexibility compared to static stretching in college-aged males.

1:40 p.m. EMILY WILLAERT and GABRIELLE KEPHART (Dr. Don Fischer, Physical Education). Do gender differences in maximum oxygen consumption exist when normalized by lean body mass or leg length?
SOCIAL SCIENCES SYMPOSIUM V
Henrita Academic Building, CSB

PEACE STUDIES

HAB 119

Moderator: Kelly Kraemer

8-10 a.m.
ERIC DELUCA, KATIE EBBEN, MICHELLE EBERHARD, KRISTINA SESLIJA, BANJA SUDAR, CHRISTIN TOMY, ALEX TORIGIAN, STEPHANIE WEGMANN, JOE WONDERLICH (Dr. Kelly Kraemer, Peace Studies) Emcee: Llindsey Waytashek. How we made peace in the future.

HAB 120

Moderator: Ronald Pagnucco

9 a.m.
CHRIS MORGAN (Dr. Dr. Ronald Pagnucco, Peace Studies)
Raising warriors: Maasai male socialization.

9:30 a.m.

Simons Hall, SJU

Interdisciplinary Studies

Simons 310

Concurrent Session A – Moderator: Lisa Lindgren

1 p.m.
PATRICK CURRAN, HALLIE JACKSON, ELIZABETH JAQUA and BREANNA PETERSON (Dr. Lisa Lindgren, Management; Dr. Barb May, Biology; and Julie Christle, internship director)

Mayo Innovation Scholars Program

Applied Social Sciences — Moderator: Steve Schwarz

1:50 p.m.

S.A.M Presentation
DOMINIC HAIK, SARA BAKER, ADAM McMONIGAL-SUNDSMO, ANDRIJA WELSH and MEGAN CURRY (Dr. Steve Schwarz, Management)

Tom Tom: Management case study competition

2:40 p.m.

SIFE Presentation
SARAH SCHWALBACH, EMILY REZNECHECK, AIMEE HARREN, SHAZREH AHMED and ROSS NEUBAUER (Presentation coordinator: Emily Masters). CSB/SJU SIFE Annual Report Presentation
3:30 p.m.  TOM HENDERSON and SHAWN GUST (Dr. Steve Schwarz, Management).  Impact of Facebook on job selection.

Simons 330  Leadership: Research and Application — Moderator: Margrette Newhouse

1 p.m.  KATIE BEUMER, BOB DURANT, ANNA CONZEMIUS and EMILY BACKES.  Sustainability through coffee collars.

1:20 p.m.  RACHAEL POPP, BROOKE BHEYER, BLAKE HALLER and MICHAELA FOLEY.  Race for Kids with Cancer.

1:40 p.m.  KATIE ESTREM, AARON BURTZEL, AARON LAINE and SIMONE HALDER.  Help for Haiti.

2 p.m.  JESSICA FLOREK, EMILY MASTERS, JIMMY SHARPE and GREG DONALDSON.  Microloans for Minnesotans.

2:20 p.m.  BRANDON BOKINSKI, ANDY JOHNSON, ALEX LINDBERG and ALEX McCALLUM.  Anna Marie’s Alliance Assistance.

2:40 p.m.  ROSS NEUBAUER, ADAM McMONIGAL-SUNDSMO and NICK BLEE.  Cell phones for soldiers.

3 p.m.  MEGAN KACK (Dr. Sanford Moskowitz, Management & Asian Studies)  The promotion and marketing of advanced oral health technology in China.
Gorecki Dining and Conference Center, CSB

Building Communities Poster Session

GDCC 204 A & B
2:15-4 p.m.  **Moderator: Mara Jacobson-Schulte**

The Service-Learning Program, Bonner Leader Program and Jackson Fellows Program foster civic engagement and social justice through community-based learning. Student participants in each of these programs will present their projects, describe what they learned, and answer questions about the communities they served.
NATURAL SCIENCES SYMPOSIUM I — CHEMISTRY, BIOCHEMISTRY, and NUTRITION

Gorecki Conference and Dining Center and Ardolf Science Center, CSB

GDCC 2nd floor
7:30-8:45 Continental Breakfast for participants and guests.

GDCC 204 A-C
8:00 – 9:00 a.m. General Chemistry Poster Session

Poster presentations of laboratory research by students in Chem 234: General Chemistry (advisors Dr. Brian Johnson and the Chemistry Faculty).

ASC 104 Nutrition Oral Presentations -- Concurrent Session A

8:00 a.m. ALLISON GALZKI (Dr. Amy Olson, RD, LD, Nutrition). Vitamin D status in division III male cross country runners: a follow-up study.

8:20 a.m. KELSEY REHWALDT and ALLISON GALZKI (Dr. Amy Olson, RD, LD, Nutrition). Iron Status of Division III male cross country runners: A follow-up study.

8:40 a.m. BRIAN SYVERSON and STEPHANIE MACKENTHUN (Dr. Amy Olson, RD, LD, Nutrition, and Dr. Mani Campos, Biology). Weight loss, dehydration practices and serum electrolyte levels in Division III wrestlers.

9:00 a.m. JESSICA AGNEW HOEPPNER (Jayne L. Byrne, MS, RD, LD, Nutrition). Changes in human serum lipid profile with regular consumption of omega-3 fatty acid enriched eggs vs. regular consumption of standard hen eggs.

9:20 a.m. MOLLY BRAY, EMILY FIELD, and SHANNON MOORE (Dr. Amy Olson, RD, LD, Nutrition). The effects of 8 grams soluble, viscous fiber, provided as one serving of oatmeal, on blood lipid levels in 28 college staff.

9:40 a.m. MOLLY BRAY (Dr. Amy Olson, RD, LD, Nutrition). Vitamin D intake and average serum level of 25(OH)D₃ in a monastic community compared to the national average and how these levels correlate with the community’s rate of dementia/cognitive decline.
Chemistry and Biology Sessions

Concurrent Session A – Moderator: Kate Graham

ASC 104
1:00 p.m. AMY HOGERTON (Drs. Kate Graham and T. Nicholas Jones, Chemistry, and Dr. Jayne L. Byrne, Nutrition).
Determination of the fatty acid composition of egg yolks.

1:30 p.m. NATHAN ORTMANN (Dr. Henry Jakubowski, Chemistry).
Drug resistant Pseudomonas aeruginosa.

2:00 p.m. MIKE A. BURGMEIER (Dr. Brian Johnson, Chemistry).
Metal carbenes in metathesis reactions.

2:30 p.m. STEPHEN CAMPBELL (Dr. Brian Johnson, Chemistry).
Theory and application of building integrated photovoltaics.

ASC 105
Concurrent Session B – Moderator: T. Nicholas Jones

1:00 p.m. HADLEY McINTOSH (Dr. T. Nicholas Jones, Chemistry).
Assessing the potential viability of algae for environmental remediation and as a biofuel feedstock: biochemical composition.

1:30 p.m. ANNE HYLDEN (Dr. T. Nicholas Jones, Chemistry).
Lewis acid promoted cyclization of 5-hexynoic acid.

2:00 p.m. ANDY AEBLY (Dr. T. Nicholas Jones, Chemistry).
Synthesis of catalytically functionalized PAMAM dendrimers for tandem Suzuki cross-coupling/diels alder one-pot Ssynthesis.

2:30 p.m. JOEL ANDERSON (Dr. Michael Ross, Chemistry).
Mechanical stability and photocatalytic activity of TiO₂ –based films in a flow-through system.
ASC 107  Concurrent Session C – Moderator: Chris Schaller

1:00 p.m.  STEPHANIE ROE (Dr. Chris Schaller, Chemistry).
Kinetic study of aluminum catalysts in the ring-opening polymerization of caprolactone.

1:30 p.m.  R. ALEX MOHER (Dr. Richard White, Chemistry).
Thermodynamic Pertubation Theory applied to the surface tension of nanoparticles.

2:00 p.m.  LUKE STEINER (Dr. Richard White, Chemistry).
The effect of soil structure on the efficiency of ground source heat pumps through heat conductivity.

2:30 p.m.  NICOLE GAGNON (Dr. Richard White, Chemistry).
Simultaneous determination of the acid dissociation constant and the partition coefficient of a solution of benzoic acid in heptane and water.

ASC 121  Concurrent Session D – Moderator: David Mitchell

1:00 p.m.  DUSTIN BENTLEY (Dr. David Mitchell, Biology).
The purification and characterization of lactate dehydrogenase.

1:30 p.m.  DREW SEEGER (Dr. David Mitchell, Biochemistry, research performed under Dr. Min Wu of UND).
Docosahexaenoic acid increases the resistance to hyperoxic toxicity in lung epithelial cells.

2:00 p.m.  JUSTIN EKLUND (Dr. David Mitchell, Biology).
Purification and characterization of swine lactate dehydrogenase.
Concurrent Session E – Moderator: Edward McIntee

1:00 p.m.
COURTNEY R. A. TIEGS (Dr. Henry Jakubowski, Chemistry).
Using fluorescence spectroscopy to study the binding of phosphopeptides to mutants of human low molecular weight protein tyrosine phosphatase (PTP).

1:30 p.m.
KEVIN BETTENDORF (Dr. Edward McIntee, Chemistry).
Electric field induced reversible pH microarrays.

2:00 p.m.
DARYL FIELDS (Dr. Edward McIntee, Chemistry).
A nanoscience approach to drug delivery systems.

Chemistry Department Honors and Awards Presentations
Dr. Henry Jakubowski, Chair.
Concurrent Session A – Moderator: Mani Campos

8:00 a.m.  SUSAN CHHEN (Dr. Mani Campos, Biology).
Knowledge of human papilloma virus (HPV) and social indicators affecting the level of awareness, barriers, and perspectives that influence cervical cancer screening among American Indian women.

8:25 a.m.  JOSEPH CARR (Dr. Stephen Saupe, Biology).
Idioblasts in action.

8:50 a.m.  KATHRYN A. HOLT (Dr. Mani Campos, Biology).
Etiology, pathogenesis, and treatment of type II Diabetes Mellitus in low-income African Americans and East African immigrants.

9:15 a.m.

Concurrent Session B – Moderator: Elizabeth Wurdak

Pengl 375

8:00 a.m.  NICHOLAS MATTHEES (Dr. Elizabeth Wurdak, Biology).
Effects of 2, 4-D, Triclopyr, Dicamba and pyraflufen ethyl herbicide on *Xenopus laevis* survival, growth, behavior and pathology.

8:25 a.m.  BENJAMIN L. UNDERHILL (Dr. Jeanne Marie Lust, OSB, Biology).
The importance of watercraft inspectors.

8:50 a.m.
ASC Lobby  
Poster Presentations – Moderator: Marcus Webster  
3:00-4:00 p.m.  

JESSICA AGNEW HOEPPNER (Jayne L. Byrne, MS, RD, LD, Nutrition).  
Changes in human serum lipid profile with regular consumption of omega-3 fatty acid enriched eggs vs. regular consumption of standard hen eggs.  

MEGAN CRAIN (Dr. Danielle Grove-Strawser, Biology).  
Bisphenol A and neurons: using immunoassay to determine estrogen receptor-alpha protein expression in rat hippocampal and striatal tissue.  

KIM D’ALOIA, REBECCA HROMATKA, ZACHARY KREUGER, and KELCIE TSCHIDA (Dr. Marcus Webster, Biology).  
The effects of hormones on uterine smooth muscle of rats.  

TYLER R. DEROUIN, DEVON D. WARREN and TIM MAYERHOFER (Dr. Barbara May, Biology).  
Expression of annotated xylanase gene in Cellulomonas flavigena in different carbohydrate media.  

ALLISON GALZKI and KELSEY REHWALDT (Dr. Amy Olson, RD, LD, Nutrition and Dr. Manuel Campos, Biology).  
Vitamin D status in division III male cross country runners: a follow-up study.  

AARON HELLEM and MARIE BOO (Dr. Don Fischer, Physical Education).  
The aerobic capacity of division III female soccer players.  

MICHAEL JAEGGER (Dr. Ellen Jensen, Biology).  
Effects of glucose on macrophage phagocytosis of Candida albicans.  

MITCH LARSON, NICK KROLL, and PAUL DeWINTER (Dr. Marcus Webster, Biology).  
Effect of temperature on muscle performance.  

DAVID MASSEY, WILL WAHLERS, and MATT WILLIAMSON (Dr. Marcus Webster, Biology).  
Growth rate in mice.  

STEPHANIE MACKENTHUN, BRIAN SYVERSON (Dr. Manuel Campos, Biology and Dr. Amy Olson, RD, LD, Nutrition).  
Serum electrolyte levels in Division III wrestlers on competition day.
KELSEY REHWALDT and ALLISON GALZKI (Dr. Amy Olson, RD, LD, Nutrition and Dr. Manuel Campos, Biology). Iron status of Division III male cross country runners: a follow-up study.

SARAH SORENSON and JARED SUNDSTROM (Dr. Amy Olson, RD, LD, Nutrition). The effect of Accelerade versus water on the hydration status of cross country skiers.

BRIAN SYVERSON, STEPHANIE MACKENTHUN, (Dr. Manuel Campos, Biology and Dr. Amy Olson, RD, LD, Nutrition) Weight loss and dehydration practices in Division III wrestlers 2010.

ALASTAIR TULLOCH and CONNOR McINTEE (Dr. Kristina Timmerman, Biology). An exploration of the reproductive activity of the giant ground bromeliad *Puya clava-herculis* found in the Andes Mountain range.
Session A – Moderator: Sarah Yost

8:00 a.m.  DANIEL FRANTA (Dr. Dan Steck, Physics).
Radon emanation from building materials including granite flooring tiles, concrete and wallboard.

8:20 a.m.  ADAM M. GENTNER (Dr. Sarah Yost, Physics).
Analysis and classification of potentially variable stars.

8:40 a.m.  DAVID HARRISON (Dr. Dan Steck, Physics).
Modeling radiation exposure from decorative granite.

9:00 a.m.  MATTHEW J. ANDERSON (Dr. Dean Langley, Physics).
Backscattering ultrashort pulses from nonlinear sphere.

9:20 a.m.  PEDER M. JACOBSON (Dr. Jim Crumley, Physics).
FAST satellite observations of Ion cyclotron waves.

Session B – Moderator: Jim Crumley

1:00 p.m.  JOSHUA NOVACHECK (Dr. Jim Crumley, Physics).
The CSB/SJU All-Sky Camera.

1:15 p.m.  JENNIFER M. ALEXANDER (Dr. Dean Langley, Physics).
Sonoluminescence measurements.

1:30 p.m.  TODD M. FREDRICKSON (Dr. Jim Crumley, Physics).
The effect of ion composition on the dispersion relation of Ion cyclotron waves.

1:45 p.m.  RYAN P. KETTNER (Dr. Dean Langley, Physics).
Wavelength dependance of self-pumped phase conjugation from BaTiO₃.

2:00 p.m.  MUNKHBAATAR BAATAR (Dr. Adam Whitten, Physics).
Ozone measurements.
Session C – Moderator: Tom Kirkman

2:30 p.m. MATTHEW T. ELLIS (Dr. Tom Kirkman, Physics). Eclipsing binary cepheid stars.

2:45 p.m. BRIAN E. KLEIN (Dr. Dean Langley, Physics). Optimized reflector shape for acoustic levitation of water droplets in air.

3:00 p.m. BRENDON J. MURN (Dr. Dean Langley, Physics). Backscattering ultrashort pulses from nonlinear spheres.

3:15 p.m. JUSTIN B. OTIS. (Dr. Adam Whitten, Physics). Aerosol optical depth and total ozone thickness.

3:30 p.m. CHRISTINE M. PALMER (Dr. Tom Kirkman, Physics). Trumpet pitch variation and compensation.
NATURAL SCIENCE DIVISION SYMPOSIUM V — COMPUTER SCIENCE and MATHEMATICS
Peter Engel Science Center, SJU

PE 229 Computer Science – Moderator: Michael Heroux

1:00 p.m. ALEXANDER HELWIG (Dr. Michael Heroux, Computer Science).
Testing the merits of parallel computing.

1:20 p.m. ERIC BAVIER (Dr. Michael Heroux, Computer Science).
Refactoring Trilino’s Amesos Direct Sparse Solver.

1:40 p.m. SEAN LANDMAN (Dr. Imad Rahal, Computer Science).
Improving start codon prediction accuracy in prokaryotic organisms using naive Bayesian classification.

2:00 p.m. JEREMY IVERSON (Dr. James Schnepf, Computer Science).
VOCS: An online clustering system for source code plagiarism detection.

Mathematics – Moderator: Thomas Sibley

2:20 p.m. KRISTIN REINSVOLD and NICK ZWEBER (Dr. Thomas Sibley, Mathematics).
Using higher dimensions to make codes.

2:40 p.m. KARLA SCHOMMER (Dr. Lynn Ziegler, Computer Science).
Subtraction Games and Computer Applications.
FINE ARTS SYMPOSIUM II
*The Great Hall, SJU*

7:30 – 8:15 p.m. MIKE FLAHAVE, ETHAN CALABRIA, ALEXANDER COLLERAN, KEVIN FINLEY, ABBY GALLAGER, DERIK GERTKEN, KELLY HAYES, CAITLIN HILL, MATT HORNING, AMANDA KERNOSKY, ASHLEY KITTRIDGE, ALYSON KLENKE, ROBERT MARTIN, MARTIN McTIGUE, NATHAN MEYER, PATRICK MOE, MILAN NARIC, JAKE RANALLO, KEVIN SAUNDERS, KAYLA SMITH, NICOLE SWANSON, ASHLEY TONG, HUE VANG, KAYLA WEST and BEN ZILKA (Br. Simon-Hoa Phan, OSB, Art).

**Streams: Portraits in Sound and Image.**
Acknowledgments and thanks

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Marcus and Ernie

Marcus Webster
Director, Undergraduate Research
Professor of Biology

Ernie Diedrich
Social Sciences Division Head
Professor of Economics