

*The College of Letters and Science
wishes to thank the committee of faculty
that assist in planning this event:*

*Dôna Warren, Department of Philosophy
Padmanabhan Sudevan, Department of Psychology
Richard. Crowther, Department of Biology
Eugene Johnson, Department of Chemistry
Jin Wang, Associate Dean*

*University of Wisconsin – Stevens Point
College of Letters and Science*

University of Wisconsin – Stevens Point
College of Letters and Science

**3rd Annual Undergraduate
Research Symposium
Program**



University Center,
UW-Stevens Point Campus

Saturday
April 27, 2002

◆ Oral Presentations ◆

See Program for Individual Room Locations
9:00 – 10:00

◆ Poster Presentations ◆

Located in the LaFollette Lounge
10:00 – 11:00

◆ Oral Presentations ◆

See Program for Individual Room Locations
11:00 - 12:00

◆ Lunch ◆

Served in the Alumni Lounge at Noon

Ceremony Master: Dr. Justus F. Paul,
Dean, College of Letters and Science, UWSP

Welcome by Dr. Bill Meyer,
Provost and Vice Chancellor for
Academic Affairs, UWSP

Your name tags and lunch tickets are available
at the Registration Table
located in the LaFollette Lounge.

Poster Presentations

Department of Biology

Identification of Scab Resistant Potato Haploid Clones

Elizabeth Mauritz

Faculty Mentor: Dr. Shelley H. Jansky

AP-PCR Fingerprints Reveal Distinct Populations of Rainbow Smelt in the Western Great Lakes

Tracy Back, Theodore W. Peters

Faculty Mentor: Dr. Diane A. Caporale-Hartleb

Do Tick Densities Relate to Lyme Disease Infection Rates?

Curtis M. Johnson

Faculty Mentor: Dr. Diane A. Caporale-Hartleb

Grafting of Hydroponic Plants to Study the Physiological Basis of Potato Early Dying Disease

Dana M. Benson

Faculty Mentor: Dr. Shelley H. Jansky

Identification of an Unknown Streptomyces Species and Study of its Anti-Fungal Compounds

Jane-Renee Lund

Faculty Mentor: Dr. Terese M. Barta

Improved Methods for the Expression, Extraction, and Purification of GFP

*Jason Brazzale, Mary Brezinski, Mike Feldcamp,
Rebecca Ganzow, Bruce Knutson, Tony Lowenberg,*

Eric Simkins, Cassie Theusch

Faculty Mentor: Dr. Ed Gasque

Seasonal Diet Changes of Larval Yellow Perch Raised in Aquaculture Ponds

Michael Warren, Brad Wimmer, Travis Motl

Faculty Mentor: Dr. Chris Hartleb

Screening for Verticillium Wilt Resistance in Progency of a Cross Between Resistant Clones

Phil Kauth

Faculty Mentor: Dr. Shelley H. Jansky

A Survey of Endoparasites of Swallow-Tailed Kites

Jessica Orlofske, Sarah Orlofske

Faculty Mentor: Dr. Steve Taft

Taxonomic Comparison of Odonata in Lentic and Lotic Sites

Nicole M. Harings

Faculty Mentor: Betsie Graham, M.S.

Department of Sociology

A Student Conducted Assessment of the Community Needs in Boquillas, Mexico

Sarah E. Bristol, Olivia Carbajal, Stephanie Perry

Faculty Mentor: Dorothy R. De Boer

Department of Chemistry

Trace Metal Content in Processed and Raw Corn and Peas

Kazumi Nakada

Faculty Mentor: Dr. Eugene Johnson

Synthesis of Phosphine Supported Germanium Nanoparticles

Benjamin E. Kucera, Robin S. Tanke, Susan M. Kauzlarich

Faculty Mentors: Dr. Robin Tanke and Dr. Eugene Johnson

Progress toward the Total Synthesis of Methoxylated Canthin-6-one Indole Alkaloids

Tara Miller, Steven Mennen, Brian Zick

Faculty Mentor: Dr. Kevin Czerwinski

Electrolysis and Faraday's Laws

Fay M. Jahr

Faculty Mentor: Dr. C. Marvin Lang

Determination of N-Methylcarbamate Insecticides via Micellar Electrokinetic Chromatography

Brian D. Skaike

Faculty Mentor: Dr. Laura J. Cole

Chemical Genealogy – A Multi-Generational Study of the Roots of the Chemistry Department at the University of Wisconsin-Stevens Point

Steven D. Nieland

Faculty Mentor: Dr. C. Marvin Lang

Analysis of Germanium Nanoparticles

Amber Wise

Faculty Mentors: Dr. Robin Tanke and Dr. Eugene Johnson

Department of Geography/Geology

Spectral Reflectance of Blueschist in the Anti-Atlas Mountain Range of Morocco

Kevin Bossenbroek, Mandy Fenn, Dris Lyons, Nathan Shasby

Faculty Mentors: Dr. Kevin Hefferan, Eric Larsen,

Dr. Keith Rice, Dr. N. C. Heywood

Spatial Analysis of Sandhill Crane Nesting Preferences within a Briggsville, Wisconsin Study Area, 2001

Jaren Grosinske, Audrey Cox, Sean Goodwin

Faculty Mentors: Dr. Keith Rice, Dr. N. C. Heywood

Field Testing a 2002 Revision of the Hartman Creek State Park Map

Jacob Hofman, Naomi Johnson, Katie Opitz

Faculty Mentors: Dr. Keith Rice, Dr. N. C. Heywood

Evaluation of Stevens Point Downtown Commerce

Andy Krause, Cindi Patulski, Nate Goldberg, Chris Flannery

Faculty Mentors: Dr. Benjamin Ofori-Amoah,

Dr. Gary Meyer, Dr. N. C. Heywood

Detecting the Presence of Wild Lupine Utilizing Large-Scale Remote Sensing Multi-Spectrum Satellite Imagery

Jacob Hofman

Faculty Mentor: Dr. Keith Rice

Assessment of a Spring 2002 Remapping, and of Web Map Communication, for Hartman Creek State Park

Rebecca Colwell, Katherine Foelker, Melissa Kraemer,

Barbara Tormohlen

Faculty Mentors: Dr. Keith Rice, Dr. N. C. Heywood

Department of Physics/Astronomy

Construction of a Vibrating Sample Magnetometer to Measure Magnetic Samples

Adam Voltz

Faculty Mentor: Dr. Brad Hinaus

Optimization of an Optical Pump-Probe System for Femtosecond Laser Pulses

Paul Omernik

Faculty Mentor: Dr. Gregory Taft

Solid State Ionic Conductivity of $\text{Cu}_6\text{S}_5\text{PNr}$, $\text{Cu}_6\text{S}_5\text{PCI}$ and $\text{Cu}_6\text{S}_5\text{PI}$

Joshua Garbe, Nick Petersen, Dr. Bob Beeken

Faculty Mentor: Dr. Robert Beeken

Thermally-Induced Flow of Liquid-Crystal Defects

Paul Messman, Mick Veum, C.C. Huang

Faculty Mentor: Dr. Mick Veum

Department of Psychology

Athletes' and Non-Athletes' Judgments of Hazing Rituals

Patrick Bloom, Heidi Bemowski, Loren Lauffer, Kristin Gillen

Faculty Mentor: Dr. Amy Herstein Gervasio

Oral Presentations

University Center, Room 103

Session Moderator: William G. Gartner

Department of Philosophy

Religious Studies, Anthropology, Philosophy

9:00 – 10:00

Assessing and Recording Archaeological Sites in Central Wisconsin

Ray P. Reser

Faculty Mentor: William G. Gartner

Cataloging and Reporting Archaeological Data Found at Lake Emily

Leah M. Ostrander

Faculty Mentor: William G. Gartner

11:00 – 12:00

An Artifact Inventory of Standing Rocks State Park: Late Woodland Cultural Dynamics in Portage County, WI

Andrew J. Levy

Faculty Mentor: William G. Gartner

Research and Artifact Analysis of the Bigelow-Hamilton Site

Aprille J. Shepherd

Faculty Mentor: William G. Gartner

University Center, Heritage Room

Session Moderator: Dr. Donald Fadner

9:00 – 10:00

Department of Philosophy

Religious Studies, Anthropology, Philosophy

Attempt at a Lockean Proof of Free Will: A Rejection of Empiricist Determinism

Chris Harwood

Faculty Mentor: Dr. Dona Warren

Interpretation of the Parable of the Unjust Steward

Andrew Williams

Faculty Mentor: Dr. Donald Fadner

University Center, Heritage Room

Session Moderator: Dr. Mick Veum

11:00 – 12:00

Department of Physics

Recent Research on a Liquid Crystal Mixture

Jason Slattery and Professor Wim de Jeu

Faculty Mentor: Dr. Mick Veum

University Center, Room 205

Session Moderator: Dr. Terese M. Barta

Department of Biology

9:00 – 10:00

Effectiveness of Heat Treatments to Reduce Symptoms of Late Blight Disease on Potato Tubers Inoculated with *Phytophthora Infestans*

Susan Rudolph

Faculty Mentor: Dr. Terese M. Barta

Chromosome Doubling in Verticillium Resistant Potato Clones

Leslie Snyder

Faculty Mentor: Dr. Shelley H. Jansky

11:00 – 12:00

Determination of the Frequency of Occurrence of *E.coli* on Hands within a University Population

Eric G. Schmuck

Faculty Mentor: Dr. Terese M. Barta

Progression of Plankton Populations in Aquaculture Ponds

Travis Motl

Faculty Mentor: Dr. Chris Hartleb

University Center, Room 207

Session Moderator: Dorothy De Boer

Department of Sociology

9:00 – 10:00

Academic Freedom: A Social Psychological Approach Concerning Religiosity, Political Orientation, and Patriotism

Peter Barwis

Faculty Mentor: Dr. Doug Forbes

The Academic and Career Expectations of College Students

Amy Lang and Maggie Schaefer

Faculty Mentors: Dorothy De Boer and Dr. Doug Forbes

11:00 – 12:00

The Relationship Between Parents and the Effect they Have on Delinquency using Hirschi's Social Bond Theory

Jason J. Noel

Faculty Mentors: Dorothy R. De Boer and Dr. Doug Forbes

Women Working in the Correction System

Nikkohl L. Gallant

Faculty Mentors: Dorothy R. De Boer and Dr. Doug Forbes

University Center, Room 113

Session Moderator: Dr. Gary Mullins

9:00 – 10:00

Department of History

**Forming of a Nation:
Shift from a Religious and Dynastic Rebellion
to a Struggle for an Independent Scotland**

Christopher Reese

Faculty Mentor: Dr. Nancy LoPatin-Lummis

The KKK in Wisconsin during the 1920's

Christopher Ewan

Faculty Mentor: Dr. Susan Brewer

11:00 – 12:00

Department of Business/Economics

Investing in Bosnia

Tariq Sahovic

Faculty Mentor: Dr. C. R. Marshall

Petco – Alive and Barking

Steve Ryskoski, Tracy Stayton

Faculty Mentor: Barbara J. Mihm

University Center, Room 115

Session Moderator: Dr. Eric Yonke

9:00 – 10:00

Department of English

**Sex, Love, and Perversion in the 1950's and 1960's:
An Examination of James Baldwin's Writings**

Elizabeth Fontana

Faculty Mentor: Dr. William Lawlor

Department of International Studies / Foreign Language

**The Corrymeela Community:
47 Years of Waging Peace in Northern Ireland**

Rhonda Miska

Faculty Mentor: Dr. Eric Yonke

11:00 – 12:00

Department of History

The League of Princes: A Sign of the Times

Jason Verber

Faculty Mentor: Dr. Eric Yonke

Erica Jong's Vision of the Sexual Revolution

Alexa A. Priddy

Faculty Mentor: Dr. Theresa Kaminski