19th Annual Student Symposium

Tuesday, April 1, 2014
1:30 – 5:00 p.m.

2nd Floor, L.A. Pittenger Student Center
The Student Symposium

The Student Symposium recognizes and promotes the accomplishments of Ball State University students who have carried out research projects, creative endeavors, and other scholarly activities and who have benefitted from the mentorship of faculty advisors.
Nineteenth Annual Student Symposium  
Tuesday, April 1, 2014  
Ball State University  

L.A. Pittenger Student Center Ballroom  
1:30-5:00 p.m.  

1:00 – 3:00 Moderated Paper Presentations  
See page 4 for locations and times.  

1:30 – 4:20 Presentation of Student Displays and Posters  

4:20 Welcome and Introductory Remarks  
Justin Miller, Director  
Sponsored Programs Office  

4:30 Presentation of Student Awards  
Robert Morris, Associate Provost for Research  
and Dean of the Graduate School
Nineteenth Annual Student Symposium
Tuesday, April 1, 2014
Ball State University

Moderated Paper Presentations
1:00-3:00 p.m.

1:00 – 2:00  Music, Arts, and Languages
Music Lounge

1:00 – 2:00  Science and Environmental Issues
Cardinal Hall C

1:00 – 2:00  Issues in Higher Education
Cardinal Hall B

2:00 – 3:00  International Spaces and Communities
Music Lounge

2:00 – 3:00  International Relations and Political Issues
Cardinal Hall B

Each presentation will last for approximately 15 minutes, with time for questions after.
Paper Presentations
For times and locations please see the paper presentation program available at the check in table.
Mehdi Ayari
Political Science

*The Rise of Islamist Majorities in Tunisia and Egypt: Why were Islamist Parties so Successful in the Post Arab Spring Era?*

Faculty Mentor: Misa Nishikawa
Political Science

Brian Bosley
Music

*An Examination of William Albright's Pit Band In Comparison To His Other Compositions For Saxophone*

Faculty Mentor: George Wolfe
Music

Mikayla Carpenter
Art History

*The Shades of Difference in Gertrude Abercrombie’s White Cat*

Faculty Mentor: Lara Kuykendall
Art
Rachel Cunigan  
Political Science  
*Human Trafficking and the Political Sphere*  
Faculty Mentor: Gerald Waite  
Center for Peace and Conflict Studies

Pradeep Dissanayake, Sangapala Arachchige & Don Dissanayake  
Urban Planning  
*Development Projects: Empowering or Making Communities Dependent?*  
Faculty Mentor: Nihal Perera  
Urban Planning

Seula Han & J. Thomas McAlister  
English  
*A Psycholinguistic Study on Interference of Relative Clause Structures in Chinese and Korean L1/English L2 Speakers*  
Faculty Mentor: Megumi Hamada  
English
Katie Harper
Natural Resources and Environmental Management

Water Is Life: Building Wells in Sierra Leone

Faculty Mentor: Gerald Waite

Center for Peace and Conflict Studies

Jeffrey Lauer
Urban Planning

A Market For Dead Things: The Reformation of the Gujari Bazaar and the Politics of Heritage in Ahmedabad, India

Faculty Mentor: Nihal Perera

Urban Planning

Adam Lehman
Philosophy and Religious Studies

Living Simply in the 21st Century

Faculty Mentor: Gerald Waite

Center for Peace and Conflict Studies
Michael Mahoney  
Center for Peace and Conflict Studies  

*General Abdulsalami Abubakar's Nigeria*  
Faculty Mentor: Gerald Waite  
Center for Peace and Conflict Studies

Tobin Richardson  
Educational Studies  

*Legal Issues for International Students Studying in the United States*  
Faculty Mentor: John Connor  
Student Legal Services

Andrew Siliski  
Geological Sciences  

*An Investigation of the Stratigraphy Beneath the Ball State University Ground-Source Geothermal System*  
Faculty Mentor: Lee Florea  
Geological Sciences
Shelby Simonsen  
Psychological Science

*Healing the Unseen Wounds of Trauma*

Faculty Mentor: Gerald Waite

Center for Peace and Conflict Studies

Jumah Taweh  
Communication Studies

*Exploring Issues Related to Influence of Minority Faculty on Minority Students*

Faculty Mentor: Thalia Mulvihill

Educational Studies

Lorna Timmerman  
Educational Studies

*Self-Determination in Transitioning First-Year College Students With and Without Disabilities*

Faculty Mentor: Roger Wessel

Educational Studies
Poster Presentations
Natalie Abell
Biology

*The influence of stimulants on the freshwater snail, Physa acuta*

Faculty Mentor: Melody Bernot
Biology

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Farah Alam
Landscape Architecture

*Rocks and the City: A Protection Model for Hyderabad's Rockscapes*

Faculty Mentor: Robert Baas
Landscape Architecture

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Fatimah Albrekkan & Michael Dugan
Physiology and Health Science

*VAMP-2 Presence in Rabbit B Lymphocyte Plasmacytomas*

Faculty Mentor: Marie Kelly-Worden
Physiology and Health Science
Reem Alsufayan  
English  

*Gender Differences in the Use of Arabic Discourse Markers Among Saudis*  
Faculty Mentor: Carolyn MacKay  

Hana Altalhi  
English  

*The Speech Act of Thanking and Responses to it Among Saudi Females*  
Faculty Mentor: Carolyn MacKay  

Erin Anderson  
Center for Peace and Conflict Studies  

*Corporate Compassion*  
Faculty Mentor: Gerald Waite  
Center for Peace and Conflict Studies
Christina Andrews  
Social Work  

*The Benefits of Meditation for Anxiety and Self-Actualization*  
Faculty Mentor: Cynthia Conley  
Social Work  

Chad Argabright  
Biology  

*Assessment of Thermoregulation During Torpor in Three Sympatric Species of Myotis*  
Faculty Mentor: Tim Carter  
Biology  

Sasha Auer  
Biology  

*Diet Composition of Cerulean Warbler (Setophaga cerulea) Nestlings in Southern Indiana*  
Faculty Mentor: Kamal Islam  
Biology
Taylor Back, Stephanie Kuhn, Teddy Dawson & Erin Kelly
Psychological Science

Body Image and Sexual Relations

Faculty Mentor: George Gaither

Psychological Science

Julia Backus
Biology

Weak concordance among fish and macroinvertebrates in Indiana streams

Faculty Mentor: Mark Pyron

Biology

Jill Bange
Biology

Effects of Warming on the Algal Response to Nutrient Enrichment in a Rich Fen Peatland

Faculty Mentor: Allison Rober

Biology
Kevin Barnes
Biology

*Cerulean Warbler settlement cues: a conspecific attraction study*

Faculty Mentor: Kamal Islam
Biology

Rachel Bennett
Natural Resources and Environmental Management

*Nature and Culture Connect Us*

Faculty Mentor: Amy Gregg
Natural Resources and Environmental Management

Tristan Bennington
Journalism

*Peaceful Warriors: Ending a Civil War Nonviolently*

Faculty Mentor: Gerald Waite
Center for Peace and Conflict Studies
Denise Blankenberger  
College of Architecture and Planning  

*Shigeru Ban: Resilience by Design*

Faculty Mentor: Gerald Waite  
Center for Peace and Conflict Studies

Molly Bontrager  
Center for Peace and Conflict Studies  

*El Chapo: Small but Mighty*  

Faculty Mentor: Gerald Waite  
Center for Peace and Conflict Studies

Diane Brooks  
English  

*An Analysis of Cross Modal Priming Tasks with L1 Arabic Speakers*  

Faculty Mentor: Megumi Hamada  
English
Adam Burniston  
Geography

*The Accuracy of Forecasting through Cartographic Visualization: November 17, 2013 Tornado Outbreak*

Faculty Mentor: Elizabeth Vaughan

Lindy Caffo  
Biology

*Simvastatin inhibits Streptococcus pyogenes invasion*

Faculty Mentor: Susan McDowell

Samara Candreva  
Psychological Science

*Refinement of the Construct of Relationship Esteem*

Faculty Mentor: George Gaither
Chelsy Carlton
Social Work

Faith Maturity Presentation

Faculty Mentor: Cynthia Conley

Social Work

Adam Carr & Jonathan Miksanek
Biology

Fine Focus: A New International Journal for Undergraduate Microbiology Research

Faculty Mentor: John McKillip

Biology

Ashley Chambers, Lewis Brown, Kevin Cole & Eli Collis
Information Systems and Operations Management

Meeting Strategic Goals through Classroom Redesign in the College of Sciences and Humanities

Faculty Mentor: Fred Kitchens

Information Systems and Operations Management
Student Symposium 2014

Sara Chauvette
Mathematical Sciences

_Gifted Elementary Mathematics Students in Indiana_

Faculty Mentor: Rebecca Pierce
Mathematical Sciences

Maxwell Chezem
Biology

_Long-Term Changes in Algal Community Structure in Fish Stomachs Associated with Cultural Eutrophication in an Urban Dominated Watershed_

Faculty Mentor: Kevin Wyatt
Biology

Nicole Chodkowski
Biology

_The Interactions Between Parasites and Environmental Contaminants_

Faculty Mentor: Randall Bernot
Biology
Robert Cichocki
Architecture

Living Inbetween: Housing For The Undocumented

Faculty Mentor: James Kerestes

Architecture

Cory Clifford, Luke Pritchett, Justin Miller & Taylor Wesling
Physical Education, Sport, and Exercise Science

Ball State Football Attendance Audit

Faculty Mentor: Donghun Lee

Physical Education, Sport, and Exercise Science

Curtis Clock
Educational Studies

Transfer Students and the Barriers they Face: The Track from Community Colleges to 4 Year Institutions

Faculty Mentor: Amanda Latz

Educational Studies
Sam Coffey
Biology

*Development of a Yeast-Based Assay for Compounds that Inhibit Bacterial Invasion of Human Cells*

Faculty Mentor: Eric Rubenstein

Biology

Olivia Cosgray & Andrew Deathe
Physiology and Health Science

*Adolescents' Perceptions and Knowledge About Menstruation in Middle and Low Income Countries: A Case Study from India*

Faculty Mentor: Jagdish Khubchandani

Physiology and Health Science

Courtney Cromas & Amy Dieter
Psychological Science

*The Relationship Between Mood and Frequency of Sexual Behaviors*

Faculty Mentor: George Gaither

Psychological Science
Aaron Cross  
Biology  

*Lunar Phobia in Temperate Vespertilionid Bats: Modeling Moonlight’s Impact on Bat Activity*  
Faculty Mentor: Timothy Carter  
Biology

Justin Crowder, Eric Fults & Ian Tesch  
Biology  

*Damage Control: Cellular Regulation of Abnormal Proteins*  
Faculty Mentor: Eric Rubenstein  
Biology

Margaret Cude  
Journalism  

*Welcome to Your Graduate School Experience: Graduate Student Orientation at Ball State University*  
Faculty Mentor: Adam Kuban  
Journalism
Michael Curry
Biology

*The Effect of Lonicera Japonica on Antigen-Stimulated B Cell Functions*

Faculty Mentor: Heather Bruns

Biology

Heather Daly
Psychological Science

*Psychophysiological Responses to Isolated Musical Chord Progressions*

Faculty Mentor: Don Ester

Music Education

Rachel Dana
Biology

*Salty Taste Deficits in CALHM1 Knockout Mice*

Faculty Mentor: Stuart McCaughey

Medical Education
Natalie Davis
Anthropology

An Applied Anthropology Internship in Armenia

Faculty Mentor: Jennifer Erickson
Anthropology

Briana Davis & Natalya Mezenina
Physiology and Health Science

The Effect Age on Nuclear Protein Levels in the Rat Kidney

Faculty Mentor: Marianna Zamlauski-Tucker
Physiology and Health Sciences

Dawn DeColibus
Biology

Increased Frequency of Drying-Rewetting Events Alters Algal Community Dynamics in a Boreal Rich Fen

Faculty Mentor: Kevin Wyatt
Biology
Marlenne Devia, Berkley Conner, Matthew Ladwig & Christina M. Phillips
Psychological Science

*What Do You Believe? Developing Accurate Measures of Myths and Misconceptions*

Faculty Mentor: Darrell Butler

Psychological Science

Albert DiBenedetto
Physics and Astronomy

*Electron Transport of Carbon Nanotubes and Graphene Nanoribbons*

Faculty Mentor: Mahfuza Khatun

Physics and Astronomy

Jason Doll
Biology

*Walleye Recruitment in Indiana Reservoirs*

Faculty Mentor: Thomas Lauer

Biology
Erin Donovan & Kelsey Anderson  
Anthropology  

*Fire Cracked Rock: Does Size Really Matter?*  
Faculty Mentor: Mark Hill  
Anthropology

Shamus Driver  
Chemistry  

*Acid-Base Chemistry of Dissolved Organic Matter from Ecological End-Members: Black Water River and Antarctic Lake*  
Faculty Mentor: E. Michael Perdue  
Chemistry / Environmental Science

Michael Dugan  
Physiology and Health Science  

*Are Racial and Ethnic Minority Youths More Vulnerable to Mental Illness? An Exploratory Investigation*  
Faculty Mentor: Jagdish Khubchandani  
Physiology and Health Science
Daniel Elias  
Biology  

Effects of Atrazine, Metolachlor, Carbaryl, and Chlorothalonil on Stream Sediment Nutrients Dynamics  

Faculty Mentor: Melody Bernot  
Biology  

Jill Estes  
Kinesiology  

The Effect of Foot Strike Pattern and Fatigue on Running Biomechanics. 

Faculty Mentor: Henry Wang  
Kinesiology  

Oliver Firestone  
Anthropology  

Determining Pre-historic Pottery Firing Methods: An Experimental Study  

Faculty Mentor: Kevin Nolan  
Anthropology
Andrea Fitzgibbon
Biology

Comparison of Algal and Ecosystem Metabolism and Nutrient Dynamics in a Central Indiana Stream

Faculty Mentor: Melody Bernot

Sanovia Garrett
Communication Studies


Faculty Mentor: Robin Phelps-Ward

Adult, Higher and Community Education

Thomas Giffin
Natural Resources and Environmental Management

Mosquito Control in Hamilton County

Faculty Mentor: Amy Gregg

Natural Resources and Environmental Management
Derek Gosman  
Psychology  

*Longitudinal Co-Variation of Depression and Physical Activity Throughout Adolescence and Early Adulthood: Evidence from a National Study*

Faculty Mentor: David Perkins  
Psychology

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Justin Guilkey  
Human Performance Laboratory  

*Heart Rate Recovery and Variability in Boys and Girls Following Maximal and Submaximal Exercise*

Faculty Mentor: Anthony Mahon  
Physical Education, Sport, and Exercise Science

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Samantha Harsh  
Natural Resources and Environmental Management  

*Cultural and Environmental Impacts of Glacial Grooves on Kelley's Island, Ohio*

Faculty Mentor: Amy Gregg  
Natural Resources and Environmental Management
Nicholas Haunert  
Biology  

*Changing Demographics of the Eagle Creek Reservoir Fish Assemblage*  
Faculty Mentor: Thomas Lauer  
Biology

Emily Hayes  
Geological Sciences  

*A Closer Look at the Effects of Improper Waste Disposal on the Groundwater/Potable Water Systems Along the Base Camp Highway of Mt. Everest*  
Faculty Mentor: Kirsten Nicholson  
Geological Sciences

Melissa Hayes  
Religious Studies  

*Conscientious Objection Then and Now*  
Faculty Mentor: Gerald Waite  
Center for Peace and Conflict Studies
Heather Herring, Sara Hanley, Kaitlyn Birdwell & Jane Witmer
Psychological Science

The Relationship of Assertiveness, Masturbation, Relationships, and Attractiveness with Faking Orgasms

Faculty Mentor: George Gaither
Psychological Science

Daniel Hunt
Biology

Effect of Dilantin on the Ubiquitination of Cyclin A in Preimplantation Mouse Embryos

Faculty Mentor: Clare Chatot
Biology

Zachary Jameson
Biology

Climate Effects on Radial Growth in Earlywood and Latewood in Northern Red Oak at Wilbur Wright Fish and Wildlife Area New Castle, Indiana.

Faculty Mentor: David LeBlanc
Biology
Isabelle Jeffries
Educational Studies

*Heterosexual Masculinities: Examining the Experiences and Identities of Male Resident Assistants*

Faculty Mentor: Thalia Mulvihill

Educational Studies

Emily Johann
Physical Education, Sport, and Exercise Science

*Influence of Drop Height and Fatigue on Landing Mechanics in Recreationally Active Females*

Faculty Mentor: Clark Dickin

Physical Education, Sport, and Exercise Science

Ron Johnston, Thamer Alahmed, Brad Armour & Brandon Muhlbeck
Information Systems and Operations Management

*Developing a Revenue Stream from Underutilized Technology Resources at the Indianapolis International Airport*

Faculty Mentor: Fred Kitchens

Information Systems and Operations Management
Joe Kaufeld, Cory Goodwin, Steven Pickett & Katie Stewart  
Information Systems and Operations Management

*Improving Efficiency by Improving Access to Information at Republic Airways*

Faculty Mentor: Fred Kitchens

Information Systems and Operations Management

Ericka Kelley & Marlenne Devia  
Psychological Science

*Physiological Arousal Responses to Different Musical Genres*

Faculty Mentor: Stephanie Simon-Dack

Psychological Science

Hyeon Jung Kim, Jun Sung Park & Kyeonghwa Kim  
Physical Education, Sport, and Exercise Science

*Single Versus Dual-Personality Cobranding in Sports*

Faculty Mentor: Donghun Lee

Physical Education, Sport, and Exercise Science
Kyeonghwa Kim
Physical Education, Sport, and Exercise Science

Life Review: Let Your Life Speak

Faculty Mentor: Jane Ellery

Fisher Institute for Wellness and Gerontology

Kayla Kmiecik
Physical Education, Sport, and Exercise Science

Biomechanical Analysis of a Backward Somersault Landing and Drop Landing in Female Gymnasts

Faculty Mentor: Henry Wang

Physical Education, Sport, and Exercise Science

Matthew Knote
Physics and Astronomy

Modeling of Eclipsing Binary Candidates in the NSVS

Faculty Mentor: Ronald Kaitchuck

Physics and Astronomy
Sarah Komanapalli  
Biology  

*The Effect of ML 141 and Simvastatin on Human Umbilical Vein Endothelial Cell/Fibronectin Binding*  
Faculty Mentor: Susan McDowell  
Biology

Brian Kowalski  
Natural Resources and Environmental Management  

*Field Station and Environmental Education Center*  
Faculty Mentor: Amy Gregg  
Natural Resources and Environmental Management

Chelsie Krill  
Physical Education, Sport, and Exercise Science  

*Event Personality of the NFL and its Implications on Sponsorship Objectives*  
Faculty Mentor: Donghun Lee  
Physical Education, Sport, and Exercise Science
Julia Lambert  
Physical Education, Sport, and Exercise Science  

*KJLS: Sport Experience Audit*  
Faculty Mentor: Donghun Lee  
Physical Education, Sport, and Exercise Science  

Lauren Lambert  
Center for Peace and Conflict Studies  

*Martti Ahtisaari*  
Faculty Mentor: Gerald Waite  
Center for Peace and Conflict Studies  

Javier Lara  
Geology  

*Characterization of the Lead-Zinc-Silver Hydrothermal Deposits: Timing of Ore Genesis for the McKay Silver Claim in Yukon, Canada*  
Faculty Mentor: Kirsten Nicholson  
Geology
Student Symposium 2014

Jamie Lau
Biology

Comparing Five Macroinvertebrate Indices of Integrity:
Are We Meeting National Water Quality Monitoring Intent?

Faculty Mentor: Thomas Lauer

Christian Lauter
Family and Consumer Sciences

Community Analysis of The Waverley - 151 South East St.

Faculty Mentor: Carla Earhart

Tyler Lawson
Natural Resources and Environmental Management

NRCS Internship, Southwest Texas

Faculty Mentor: Amy Gregg
James LeCount
Natural Resources and Environmental Management

*Active Environmental Science Internship*

Faculty Mentor: Josh Gruver

Natural Resources and Environmental Management

Alyssa Lee, Haewon Lee & Brett Singer
Physical Education, Sport, and Exercise Science

*NFL Fan Factors for Game Attendance*

Faculty Mentor: Donghun Lee

Physical Education, Sport, and Exercise Science

Jee Hwan Lee
Biology

*The Toxicity and Effects of Carbamazepine on Yellow Perch (Perca Flavescens) Growth and Behavior*

Faculty Mentor: Melody Bernot

Biology
Student Symposium 2014

Matt Litten
Natural Resources and Environmental Management

Ethnography of the Dirtiest Show on Earth

Faculty Mentor: Josh Gruver

Natural Resources and Environmental Management

Yi-Hsin Liu
Natural Resources and Environmental Management

Nitroglycerin Decomposition in Soil as Affected by Presence of Co-Contaminants

Faculty Mentor: John Pichtel

Natural Resources and Environmental Management

Danielle Lutton
Biology

TAL-1 and T Cell Acute Lymphoblastic Leukemia

Faculty Mentor: James Olesen

Biology
Colin Macleod
Anthropology

A Feasibility Study: Using X-ray Fluorescence and Petrography on Indiana Chert

Faculty Mentor: Mark Hill
Anthropology

Naim Mahi
Mathematical Sciences

Identification of Differentially Expressed Genes in RNA-Sequence Data: A Two Step Combined Approach

Faculty Mentor: Munni Begum
Mathematical Sciences

Adam Markstein, Devin Davis, Jacob Dungan & Nick Graham
Information Systems and Operations Management

Automation of Interactive Intelligence Report Generation Procedures

Faculty Mentor: Fred Kitchens
Information Systems and Operations Management
Aaron Marti
Biology

*Nutrient Limitation of Eurasian Watermilfoil (Myriophyllum Spicatum L.)*

Faculty Mentor: Melody Bernot

Biology

Alyssa Mitchell
Center for Peace and Conflict Studies

*Play for Peace*

Faculty Mentor: Gerald Waite

Center for Peace and Conflict Studies

Tobias Morris
Chemistry

*Effects of the Carboxylic Capping Ligand Structure on the Growth of the CdSe Quantum Dots*

Faculty Mentor: Tykhon Zubkov

Chemistry
Sarah Neownum  
Center for Peace and Conflict Studies  

* A Government Against Peace  

Faculty Mentor: Gerald Waite  
Center for Peace and Conflict Studies  

Caitlin Nichols  
Anthropology  

* What's in a Name? Identifying Cultural Traditions from Faunal Remains at Archaeological Site 12LE377  

Faculty Mentor: Homes Hogue  
Anthropology  

Matthew Orvis  
Physics and Astronomy  

* Electron Transmission Through Two-Branch Nanoring  

Faculty Mentor: Eric Hedin  
Physics and Astronomy
Nolan Pachciarz
Biology

*The Effects of Dilantin on Male Fertility and Sperm Indices in Mice*

Faculty Mentor: Clare Chatot

Ashlee Parks
Center for Peace and Conflict Studies

*Moving Past the Bombing: Peace Movement in Hiroshima*

Faculty Mentor: Gerald Waite

Nicholas Patterson
Natural Resources and Environmental Management

*Management of Invasive Plant Species at Internship Experience of the Horticultural Department at Minnetrista Cultural Center*

Faculty Mentor: Amy Gregg
Austin Pensinger  
Computer Science  

*Bonewars: An Immersive Learning Experience on Educational Video Games*  
Faculty Mentor: Paul Gestwicki  
Computer Science

Audrey Perdew  
Psychological Science  

*Gender Bias in the Rosenberg Self-Esteem Scale*  
Faculty Mentor: Thomas Holtgraves  
Psychological Science

Josh Pierce  
Psychological Science  

*Attitudes Toward Different Types of Testing*  
Faculty Mentor: Darrell Butler  
Psychological Science
Ross Pierson, Veronica Prevost, Zakk Roberts & Mike Spasoff
Information Systems and Operations Management

*Using Technology to Reduce the Cost of Communications at Speedway LLC.*

Faculty Mentor: Fred Kitchens
Information Systems and Operations Management

Husnarea Rahman
Mathematical Sciences

*A Comparison of Bayesian Model Selection Approaches for Linear and Non-linear Models*

Faculty Mentor: Munni Begum
Mathematical Sciences

Catherine Rash
Natural Resources and Environmental Management

*Inside the Park: Living and Working at Fort Harrison State Park*

Faculty Mentor: Amy Gregg
Natural Resources and Environmental Management
Alexandra Redington-Noble  
Center for Peace and Conflict Studies  

*Combating the Water Crisis: The Works of Charity*  
Faculty Mentor: Gerald Waite  
Center for Peace and Conflict Studies

Katie Reed, Sarah Hummle, Ashley Zahrt & Adriane Tritask  
Biology  

*The Effect Leaf Spot Has on the Bacteria and Fungi Present on Acer Saccharinum Leaves*  
Faculty Mentor: Kamal Islam  
Biology

E.A. Ruder  
Biology  

*Surveillance of Toxoplasma Gondii Oocyst Bioaccumulation in Freshwater Bivalves Using Loop-Mediated Isothermal Amplification*  
Faculty Mentor: Randall Bernot  
Biology
Avery Sampson
Biology

*Drying-Rewetting Cycles Promote Heterotrophic Metabolism in a Rich Fen*

Faculty Mentor: Kevin Wyatt

Biology

Luke Schmid
Biology

*Assessment of Protein Expression Influenced by TAL1 in T-Cell Acute Lymphoblastic Leukemia*

Faculty Mentor: James Olesen

Biology

Aaron Schroeder
Natural Resources and Environmental Management

*The USDA and Japanese Beetle Regulation*

Faculty Mentor: Amy Gregg

Natural Resources and Environmental Management
Qua'Shana Seals
Social Work

The Fight for Education and Rights in Middle Eastern/War Torn Countries

Faculty Mentor: Gerald Waite
Center for Peace and Conflict Studies

Leigh Seibert
Architecture

Equity for the Incarcerated

Faculty Mentor: Gerald Waite
Center for Peace and Conflict Studies

Kimberly SerVaas
Nursing

The Lady with the Lamp

Faculty Mentor: Gerald Waite
Center for Peace and Conflict Studies
Anna Settineri & Jordan Evans  
Biology

*Age and Growth of Channel Catfish (Ictalurus Punctatus) on*  
*Eagle Creek Reservoir in Indianapolis, IN.*

Faculty Mentor: Tom Lauer

Biology

Kevin Shanks  
Marketing

*Microsoft's Foot Forward in Sustainability*

Faculty Mentor: Gerald Waite

Center for Peace and Conflict Studies

Hannah Sheets  
Center for Peace and Conflict Studies

*Samantha Smith: A Symbol of Peace*

Faculty Mentor: Gerald Waite

Center for Peace and Conflict Studies
Kortnee Singer
Speech Pathology and Audiology

*Developmental Memory Ability of Typical Children and Adults Recalling Picture Communication Symbols*

Faculty Mentor: Barry Wagner
Speech Pathology and Audiology

Chelsea Smith
Center for Peace and Conflict Studies

*Peace Through Community Activism*

Faculty Mentor: Gerald Waite
Center for Peace and Conflict Studies

Moya Smith
Natural Resources and Environmental Management

*Internship at Barney's Blooms*

Faculty Mentor: Amy Gregg
Natural Resources and Environmental Management
Krista Sprague
Biology

A Water Quality Assessment of Buck Creek in East Central Indiana

Faculty Mentor: Lee Florea
Geological Sciences

Jason Sprung
Natural Resources and Environmental Management

Mitigating Invasive Species in the Cabinet-Yaak Ecosystem: Kootenai National Forest MT

Faculty Mentor: Amy Gregg
Natural Resources and Environmental Management

Allison Stanley
Center for Peace and Conflict Studies

Tom Vanderwell: A Worker for Haitian Peace

Faculty Mentor: Gerald Waite
Center for Peace and Conflict Studies
Erin Steinwachs
Anthropology

*Fire-Cracked Rock: An Experimental Study of Prehistoric Cooking Contexts*

Faculty Mentor: Mark Hill

Anthropology

Dane Stewart
Physics and Astronomy

*Modeling the Kinetic Energy Density of the AE6 Test Set of Molecules.*

Faculty Mentor: Antonio Cancio

Physics and Astronomy

Matthew Stillwagon
Biology

*Effects of Temperature on the Release of Dissolved Organic Carbon from the Benthic Macroalga Cladophora Glomerata in an Indiana Stream*

Faculty Mentor: Kevin Wyatt

Biology
Natalie Strzok
Psychological Science

Assessment of Eating Disorders and Attention

Faculty Mentor: Kristen Ritchey

Psychological Science

Shelbie Sullivan
Psychological Science

Perceptions of Interparental Conflict and Romantic Partner Conflict: Young Adult’s Safe Sex Communication with Romantic Partners

Faculty Mentor: Kristin Ritchey

Psychological Science

Daniel Tracy, Ben Sabin & Alex Goins
Physical Education, Sport, and Exercise Science

The Trend of High School Consolidation and the Impact on Interscholastic Athletics

Faculty Mentor: James Johnson

Physical Education, Sport, and Exercise Science
Erin Tuhey  
Physics and Astronomy  

*Multiband Photometry of the Eclipsing Binary Star NSVS 5754586*

Faculty Mentor: Robert Berrington  

Kiara Vance  
Modern Languages and Classics  

*Individuals Keeping Peace*

Faculty Mentor: Gerald Waite  

Center for Peace and Conflict Studies  

Marina Vukajevic  
Biology  

*Analysis of PLCR Regulator Gene in Bacillus Spp. Expression by Using GFP Fusions and Flow Cytometry*

Faculty Mentor: John McKillip  

Biology
Sheldon Watts & Sam Coffey  
Biology  

Lost in Translocon: Investigating How Cells Unclog Clogged Channels  

Faculty Mentor: Eric Rubenstein  
Biology

Nicole Wilber  
Psychological Science  

High School Students' Expectations of School Counselors  

Faculty Mentor: Kathryn Fletcher  
Psychology

Lauren Williamson  
Biology  

Effects of Subinhibitory Carvacrol Concentrations on Progression of Bacillus Cereus-Mediated Endophthalmitis in Mice  

Faculty Mentor: John McKillip  
Biology
DeeAnna Woroszylo, Shaylie Martin & Taylor Lampke
Psychological Science

Impact of Personality, Gender, and Family Lifestyles on Friends with Benefits Relationships

Faculty Mentor: George Gaither

Psychological Science

Stacy Yager
Geological Sciences

Connecting Geochemistry and Tectonics: Cretaceous Gondwana Lavas of New Zealand

Faculty Mentor: Kirsten Nicholson

Geological Sciences

Chelsey Young
Psychological Science

A Meta-Analysis of the Effect of Oral Contraceptive Use on Women’s Psychological Well-Being

Faculty Mentor: Bernard Whitley

Psychological Science
Congratulations to all of our 2014 Student Symposium Participants!

See you next year!

Watch for registration materials in January 2015.
Linda Keys, Jeffrey Litten, Sandra L. Smith
Student Symposium Awards

The Keys/Litten/Smith awards are established on behalf of Linda Keys, Jeffrey Litten, and Sandra Smith, who served in the Sponsored Programs Office for a combined total of thirty years. The awards recognize students for their outstanding research or creative endeavors presented at the Student Symposium.

Anyone wishing to contribute to the Keys/Litten/Smith Student Symposium Awards fund may do so by sending a check made payable to Ball State University Foundation, notating either Account #9652 or Keys/Litten/Smith Symposium Award in the lower left hand corner.

Checks may be sent to the Ball State University Foundation or the Sponsored Programs Office.
Special Thanks to our Judges and Moderators

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