Western Illinois University

2nd Annual
Graduate Research Conference

Friday, March 6, 2015
University Union

Schedule of Events

9:00am – 2:00pm Check in (Lincoln Room)

9:30am – 10:45am Concurrent Sessions (Board Room, Fox Room, Cardinal/Oak Room, Algonquin Room)

11:00am – 12:30pm Poster Session (Heritage Rooms: Galena and Nauvoo Rooms)

12:30pm – 1:45pm Concurrent Sessions (Board Room, Fox Room, Cardinal/Oak Room, Algonquin Room)

2:00pm – 3:00pm Concurrent Sessions (Board Room, Fox Room, Cardinal/Oak Room, Algonquin Room, Heritage Room: New Salem)

3:30pm – 4:30pm Keynote: “Letters to a Young Researcher” by Professor Brian D. Peer, Biology (Sandburg Theatre)

4:30pm – 5:30pm Awards Reception (Sandburg Lounge)
9:30am-10:45am Concurrent Sessions

Islam
Board Room
Moderator: Dr. Algerian Hart
Azat Jumayev (Sociology) “Challenge of Islam with Democracy in the Modern World”
Ayesha J. Montgomery (Public Administration) “Hezbollah’s Influence”
Michael Kohler (Political Science) “Understanding Islamophobia”

Social Economics: Conflict, Welfare, and Resources
Fox Room
Moderator: Dr. Bhavneet Walia
Meline N. Nsaikila (Economics) “Poverty, Resource Abundance, and Conflicts in Sub-Saharan Africa”
Taras Safonov (Economics) “Measuring Quality of Life in the Regions of the Russian Federation”
Rodney Burnett (Economics) “Contest Theory”
Jude Geraldo (Economics) “Energy Intensity”

Impact of Sound and Music
Cardinal/Oak Room
Moderator: Dr. Jill Myers
Alyssa Yealy (Music) “Feminine Subjectivity and Narrativity in the Music of Jane Austen Film Adaptations”
Shyan R. Edwards (Sociology) “How Has Jamaican Dancehall Music Contributed to Hostility towards Members of the LGBT Community?”
Julie Kaiser (English) “Making Noise: Creating Sound in Graphic Novels”

Psychological Wellness
Algonquin Room
Moderator: Dr. Russ Morgan
Matthew Ryan Jamnik (Psychology) “Making Life Matter: A Psychological Investigation”
Naoyuki Sunami (Psychology) “Diminished Effect of Ostracism on Power-Provocation Needs among Lonely Individuals”
Lindsey K. Robinson (Psychology) “The Influence of Negative Mood and Personality on Covert Attention”
Jonathan Counce (Psychology) “Collaborating on Instructional Video Games to Scaffold Science Learning”

11:00am – 12:30pm Poster Session (Heritage Room)

1. Moha Aghdam (Mathematics) “Probing the Shape of High Dimensional Data”
2. Anne Dixon (Kinesiology) “From the Dance Floor to the Swimming Pool: Belly Dance as an Intervention Training Method for the Dolphin Kick”
3. Payal Shah (Biology) “The Impact of Beaver Herbivory on Late Successional Upper Mississippi River (Pool 13) Floodplain Forest Communities”
4. Omotola Ashafa (Health Sciences) “Protect Your Life while Saving Lives: Ebola and Healthcare Professionals’ Safety”
5. Tara Bhandari (Health Sciences) “Effect of Legalization of Abortion in Nepal: a Literature Review”
6. Akinwale Stephen Akingbule (Health Science) “Smoking Cessation Intervention among Campus Students”
8. Emma Trone (Biology) “Gene Expression in White-Tailed Deer (Odocoileus virginianus) with Chronic Wasting Disease”
10. Terry Torres (Biology) “Isolation and Molecular Characterization of Heavy Metal Tolerant Fungi”
13. Katie Hosteng (Kinesiology) “Exercise Science Students’ Perceptions on the Value of Sleep and Exercise”
15. Shelby Crawford (Chemistry) “Analysis of Local Water Contents by Direct Analysis in Real Time, DART, and Mass Spectrometry”
17. Anthony DeCiccio (LEJA) “Detecting Deception Using Drawings”
11:00am – 12:30pm Poster Session, con’t

19. Teresa Sartore (Biology) “Enhanced Electrotransformation of Leuconostoc Citreum”
20. David VanDerway (Chemistry) “Evaluation of Potential Cathepsin D Inhibitors”
23. Alaina DiGiorgio (Sport Management) “Level of Anxiety in Starting vs. Non-Starting Athletes”
24. Kelsey Michelini (Kinesiology) “The Effects of MRSA Carrier Knowledge on Athletic Trainers’ Compliance with Prevention and Management Standards and Recommendations”
25. James S. Zweep (Biology) “Evaluating Nest Site Selection by Southern Flying Squirrels in Northern Hardwood Forests of West-Central Illinois”
26. Shanna E. David (Biology) “Habitat Preferences of Den Location for the North American River Otter (Lontra canadensis)”
27. Adam Frantz (Geography) “The Influence of Soil Hydrological Properties and Topography on Iowa Corn Production”
28. Alanna Griffin (Biology) “Gene Expression of Soybean Plants Glycine Max and Glycine Soja in Response to a Primary and Secondary Infection Period by Bean Pod Mottle Virus (BPMV) and Southern Bean Mosaic Virus (SBMV) and Virus-Vectored Mexican Bean Beetle’s Feeding Preference”
30. Kevin R. Willson (RPTA) “Student Polychronicity with Media: Finding Time to Make the Grade in Higher Education”

Map of the poster-room layout on the next page
12:30pm – 1:45pm Concurrent Sessions

Study of Fungi and Forestry
Board Room
Moderator: Dr. Andrea Porras-Alfaro

Noland Deaver (Biology) “A Survey of Entomopathogenic Fungi from a Temperate Pine Forest Soil”
Cedric Ndinga Muniania (Biology) “Distribution of Fungi in Arid Microenvironments and Their Potential Role on Plant Growth”
Anthony Kloppenborg (Biology) “The influence of Canopy Structure on the Abundance of Pink Turtlehead (Chelone Obliqua) in a Floodplain Forest”

Physics at the Frontier: From Cosmic Dimensions to the Nanoscale
Fox Room
Moderator: Dr. Kishor Kapale

Mark T. Smith (Physics) “Position and Velocity Offsets between Formaldehyde and Water Masers in G23.71-0.20”
Jerold E. Young III (Physics) “Coexistence of Superconductivity and Itinerant Ferromagnetism in Single Crystalline Y$_3$Co$_5$”
Timothy Woodworth (Physics) “Quantum Error Stabilization”
William Heidorn (Physics) “Compositional Dependence of the Optical Properties of Sm$^3+$ Doped Lead Borate Glasses”

20th Century Nationalism
Cardinal/Oak Room
Moderator: Dr. Ginny Boynton

Ann Rosentreter (History) “Feminism and Socialism in the German Empire: A Study of Lily Braun’s Attempts to Unite Women”
Frank Shaw (History) “Working-Class Antifascists: Average American Women in the Spanish Civil War”
Debra Kolz-Olson (History) “German Nationalism as Expressed in the Works of …”

Emotional Negativity
Algonquin Room
Moderator: Dr. Sandra McFadden

Alicia Vallorani (Psychology) “Loneliness and Emotional Intelligence: Factors Underlying Social Deficits in Individuals with Alexithymia”
Alicia Vallorani (Psychology) “Emotion Processing Differences Between Individuals with Autism Spectrum Disorder and Alexithymia”
Zachary C. Roth (Psychology) “The Big Five, the Motivation to Respond Without Prejudice, and Homonegativity: A Path Model”

Survival in Fact and Fiction
Board Room
Moderator: Dr. Brian Davies

Benjamin Houston (History) “‘Victory at What Price?’ Reexamining the Legacy of Major-General Elwell S. Otis and the Development of Guerilla Warfare in the Philippines, 1899-1900”
Chris Ivy (English) “The Science of Survival: Exploring the Rational and Intuitive in Arthur Conan Doyle’s A Study in Scarlet and ‘The Final Problem.’”
Nick Swope (Health Sciences) “High School Football as a Catalyst for Disaster Recovery”

Group Dynamics, and Genocide
Fox Room
Moderator: Dr. George Mangalraj

Kelly McCormick (English) “The Two-World Divide in Tracks and The Grass Dance”
Kristin Bail (Political Science) “The Efficacy of Diplomacy in Managing Genocidal Crises”
Frank Shaw (History) “Navigating the Holocaust: Sephardim and Spanish Diplomacy in Vichy”

Law and Its Impact
Cardinal/Oak Room
Moderator: Dr. Keith Boeckelman

Vicki S Darwin (Sociology) “The Impact of United States v. Windsor on the Legal Landscape of Same-Sex Unions”
Jessica McCorkle (LEJA) “What Works: Correctional Officers’ Perceptions”
Victoria Bailey (LEJA) “Born Behind Bars: Prison Nurseries”

Mathematics of Biology (Start time: 2:15)
Algonquin Room
Moderator: Dr. Amy Ekanayake

Nazar Emirov (Mathematics) “Effect of Combined Control Strategies on Wildlife”
Kanwal Ayub (Mathematics) “Predator-Prey Stage Structured Model for Bythotrephes and Its Planktonic Prey”

Piano Performances Heritage Room (New Salem)
Moderator: Dr. Anita Hardeman

Matt Saltzberg (Theatre) “Bertolt Brecht’s Mother Courage - The Song of the Great Capitulation”
3:30pm Keynote (Sandburg Theatre)
“Letters to a Young Researcher”

Professor Brian D. Peer, Biology

Welcome Amy Patrick Mossman, Director, Liberal Arts and Sciences Program, and Chair of the inaugural Graduate Research Conference Planning Committee

Introduction Dr. Nancy Parsons, Associate Provost & Director of Graduate Studies

Dr. Brian D. Peer is a Professor in the Department of Biological Sciences. He received the Provost's Award of Excellence in Scholarly Activities in 2014, the College of Arts and Sciences Award of Excellence in Scholarly Activities in 2014, and the College of Arts and Sciences Excellence in Teaching Award in 2011. Dr. Peer was elected as a Fellow of the American Ornithologists' Union in 2014. He has over 50 peer-reviewed publications that have appeared in Science, Behavior, Ecology, and Ornithology journals. Most recently, his publication on a bilateral gynandromorph Northern Cardinal has been featured in news stories worldwide. His current research focuses on the coevolutionary interactions between avian brood parasites and their hosts. He received a B.A. in Biology from Illinois Wesleyan University, a Ph.D. from the University of Manitoba, and was a postdoctoral fellow at the Smithsonian Institution and the University of California.

4:30pm – 5:30pm Awards Reception (Sandburg Lounge)

Sponsored by
The College of Arts and Sciences
Department of Economics and Decision Sciences
Department of Biological Sciences
Department of English and Journalism
Department of History
The Phi Kappa Phi Honor Society
and
Dr. Nancy Parsons, Associate Provost & Director of Graduate Studies

The WIU Chapter of the Honor Society of Phi Kappa Phi, the nation's oldest, largest, and most selective all-discipline honor society, is a proud sponsor of the second Western Illinois University Graduate Research Conference. The chapter congratulates all student participants.

Admission to the Honor Society of Phi Kappa Phi is by invitation only to the top 10 percent of graduate students. Members are often preferred candidates for grants, scholarships, and fellowships, and membership is widely accepted by potential employers as an indicator of academic ability and motivation. The benefits of membership in this highly selective honor society include:

*Academic Recognition
*Career Assistance and the JobTarget Career Center
*Eligibility to Compete for Awards and Scholarships
*Advantages from Corporate Partnerships and Services
*Networking, Training, and Leadership Opportunities

For more information about the WIU Chapter of Phi Kappa Phi, find us online at http://www.wiu.edu/PhiKappaPhi/, on Facebook https://www.facebook.com/pages/Phi-Kappa-Phi-of-Western-Illinois-University/324696356029?ref=ts, or contact the current chapter President Dr. Dale Adkins: KD-Adkins1@wiu.edu
The Western Illinois University School of Graduate Studies would like to thank the following for their generous support of this year's Graduate Research Conference:

- College of Arts and Sciences
- College of Education and Human Services
- Department of Physics
- Department of Economics and Decision Sciences
- Department of Biological Sciences
- Department of History
- Department of English and Journalism
- Phi Kappa Phi Honor Society

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