

Western Illinois University

10th Annual
Graduate Research
Conference

Friday, March 3, 2023

University Union

Schedule of Events

9:00am – 2:00pm	Check in (<i>Union First Floor Hallway</i>)
9:30am – 10:30am	Concurrent Sessions (<i>DuSable Room, Fox Room, Cardinal/Oak Room, Capitol Rooms</i>)
10:30am – 10:11am	Break (<i>Lincoln Room</i>)
11:00am – 12:30pm	Poster Session (<i>Grand Ballroom</i>)
12:30pm – 1:00pm	Break (<i>Lincoln Room</i>)
1:00pm – 2:30pm	Concurrent Sessions (<i>DuSable Room, Fox Room, Cardinal/Oak Room, Capitol Rooms</i>)
2:30pm – 3:00pm	Break (<i>Lincoln Room</i>)
3:00pm – 4:00pm	Keynote: “To go about seeking: What am I doing when I don’t know what I’m doing?” by Dr. Luciano Picanco, Department of Foreign Languages and Literature (<i>Sandburg Theatre</i>)
4:00pm – 5:00pm	Awards Reception (<i>Lincoln Room</i>)

9:30am-10:30am Concurrent Sessions

Estimation and Computation

DuSable Room

Moderator: Dr. Astha Gupta

Harsha Iduruwage (Mathematics), “Estimating Transmission Parameters for Covid-19 In Sri Lanka”

Amita Vishwanath and Sai Chaitanya Thota (Applied Statistics and Decision Analytics), “Connecting to Apache Kafka”

Media and Society

Fox Room

Moderator: Dr. William Thompson

Emmanuel Odunfa (Communication), “Social Media Popularity: A Currency for Social Power.”

Mark Brown (English), “The Toll of The Bell: Apocalyptic Messaging in Metal Music”

Anne Vantieghem (English), “Modern Mini-Lessons for Literary Classics”

Dealing with Disasters

Cardinal/Oak Room

Moderator: Dr. David Banash

Md Shahedur Rahman (Communication), “Study of The RMG Industry's Resilience in the Aftermath of Multiple Disasters: Bangladesh Context”

Taiwo Agbaje (GIScience And Geoenvironment), “Spatial Analysis of Impact of Hurricane Ian on Wood Frame Structures in Fort Myers Florida”

Mohammad Rezaul Karim (Sociology), “Covid-19 and Loss of Employment in The Family”

Gender and Sexuality

Capitol Rooms

Moderator: Dr. Merrill Cole

Fanbin Zeng (Education), “Levels of Relational Messages and Gender Voices on the Evaluation of AI Instructors by Students”

Samuel Idowu (English), “The Covert Identity: The Renunciation of Vivid Queer in Africa and Queer Portrayal in African Literature”

Logan Volkert (English), “Final Girls and Distressed Damsels: Gender in Resident Evil 3 and Resident Evil 4”

11:00am – 12:30pm Poster Session (Grand Ballroom)

1. Emmanuel Adejumo (Chemistry), “Quantification of Cannabigerol Among Nineteen Cannabinoids in Hemp-Infused Gummies By Liquid Chromatography Ultraviolet Detection”
2. Grant Meyer (Chemistry), “Potency Testing of Cannabidiol in Hemp-Infused Gummies Among Nineteen Cannabinoids by Liquid Chromatography Ultraviolet Detection”
3. Ifeoluwa Adesoye (Master of Public Health), “Racial Incongruity in Obesity Among Adults in The United States: A Retrospective Review”
4. Hamed Karami (Mathematics), “Edge Distance-Balanced of Hamming Graphs”
5. Jennifer Lopez (General Experimental Psychology), “Embrace the Suck”: How the Theory of Planned Behavior and Stigma Influence Treatment-Seeking Military Service Members”
6. Ogheneruno Theodora Ideh (Chemistry), “Toxicity Evaluation of Acmella Alba Crude Extracts on Zebrafish (Danio Rerio) Embryos”
7. Tolulope Bolarinwa (Chemistry), Morel Plant (Morchella Esculenta) “Toxicity Studies Using Zebrafish Embryo Toxicity Assay (Zet)”
8. Gbemisola Akindeji (Chemistry), “Anti-Carcinogenic Activity of Acmella Extracts in Pancreatic Cancer”
9. Femi Egbeleke (Biology), “The Anti-Cancer Effect of Eyeball Plant (Acmella Species) Extracts in Ovarian Cancer”
10. Harsha Iduruwage (Mathematics), “Fractals of The Root-Finding Methods”
11. Keszia Fabien (Chemistry), “Potency Testing of Cannabinol in Cannabinol Isolates of Hemp Among Nineteen Cannabinoids by Liquid Chromatography Ultraviolet Detection”
12. Mehetaj Parvine (Mathematics), “Emhd Nano Fluid Flow Along a Porous Riga Plate with Thermal Radiation”
13. Zachary Dodson (Chemistry), “Quantification of Cannabidiol in Hemp-Infused Water by Ultra High-Performance Liquid Chromatography Electrospray Ionization Tandem Mass Spectrometry”
14. Al-Maliq Adetunji (Physics), “An Investigation into Extending Capabilities of Standard Quantum Error Correcting Codes to Handle Amplitude Damping Errors”

Continued on the next page ...

10:45am – 12:15pm Poster Session, Continued...

15. Damilola Oluwemimo (Public Health), "Effects of Climate Change on Human Health - A Literature Review"
16. Grace Brownlee (Chemistry), "Quantification of Cannabichromene in Cannabichromene Isolates of Hemp Among Nineteen Cannabinoids by Liquid Chromatography Ultraviolet Detection"
17. Okiki Quadri (Chemistry), "Towards the Synthesis Of O-Iodoxybenzoic Acid Derivatives with Biphenyl and Triphenyl Scaffolds"

1:00pm – 2:30pm Concurrent Sessions

Culture and Wellness

DuSable Room

Moderator: Dr. Kristine Kelly

- Md Shahedur Rahman (Communication), "Does an Informal Culture that Provides Various Amenities to its Employees Have an Effect on Employee Organizational Identification?"
- Jayce Brame (Public Safety Administration), "Introspection: The Path towards Redemption"
- Leo Ofili (General Experimental Psychology), "The Impact of Subclinical Personality Disorders on Work Productivity and Absence"
- Quint Thompson (Psychology), "Father-Child Relationships and Non-Pathological Personality Difficulties"

Physics: Nano to Astro

Fox Room

Moderator: Dr. P. K. Babu

- A K M Ashiqur Rahman (Physics), "Fluorescence Study of Dysprosium and Praseodymium Co-Doped Bismuth Boro-Tellurite Glasses"
- Md Hasibul Hasan Hasib (Physics), "Analysis of Optical Absorption of Pr³⁺ and Dy³⁺ Co-Doped Bismuth Boro-Tellurite Glasses"
- Alaric Evans (Physics), "Excited NH₃ Emission from Ionized Jet Candidates"
- Punya Paudel (Physics), "Continuum Imaging of Three High-Mass Star Forming Regions"
- Amisha Rane (Physics), "Finding the Optimal Spectral Resolution for Analysis of Molecular Line Observations of a Sample of High-Mass Star Forming Regions."

Cultural and Social Transformations

Cardinal/Oak Room

Moderator: Dr. Rashmi Sharma

- Yetunde Olaniran (Public Health), "Does Menstrual Stress Contribute to Stress Experienced by Female International Students? A Study for Policy Level Intervention."
- Anna Lucken (Liberal Arts and Sciences), "Reversing Raj: Hindu Nationalist's (Re) Imagination of Rishi Sunak"
- Emily Woods (English), "Diverse Influences in Minority Poetry"
- Saly Zwairi (English), "The Secret of Resistance: Bilal VS Sisyphus"

Session continues on the next page ...

1:00pm – 2:30pm Concurrent Sessions, Continued...

Cancer and Carcinogens

Capitol Rooms

Moderator: Dr. Shawn Meagher

Gbenga Dairo (Biology), “Compounds from *Morchella Esculenta* as Potential Inhibitors Of RNA-Binding Protein La in Ovarian Cancer: A Molecular Modeling and Quantum Mechanics Approach”

Funmilola Anjorin (Chemistry), “Pancreatic Cancer Specificity of Phage Display-Selected Peptide MCA1”

Joyce Ayodeji (Biology), “The Flavonoid Content of *Morchella Esculenta* (Morel) Extracts”

Program continues on the next page ...

3:00pm Keynote (Sandburg Theatre)

“To go about seeking: What am I doing when I don’t know what I’m doing?”

Dr. Luciano Picanco, Foreign Languages and Literature

Welcome Dr. Kishor T. Kapale, Chair and Professor Physics, and Chair of the Graduate Research Conference Planning Committee

Remarks and Introduction Dr. Mark Mossman, Associate Provost and Director of Graduate Studies

Keynote Dr. Luciano Picanco, Foreign Languages and Literature

Luciano Picanco is currently a Professor of French Language, Literatures and Cultures, and chair of the Department of Foreign Languages and Literatures at Western Illinois University. He is a Michigan State University alumnus. In his 25-year career path, Dr. Picanco has performed multiple functions in various universities, from small liberal arts colleges and HBCUs to larger graduate research institutions. His research centers essentially around Caribbean Francophone literatures and cultures and black identity movements around the world, but he has also written about other subjects, in English, French, Spanish, and Portuguese. He is known to be an excellent orator and lecturer who is appreciated by his students.

4:00pm – 5:00pm Awards Reception (Lincoln Room)

Sponsored by
The College of Arts and Sciences,
Department of English,
Department of Biological Sciences,
Department of Psychology,
and
Department of Chemistry.

**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
Department of Physics
Department of English
Department of Biological Sciences
Department of Chemistry
Department of Psychology

Dr. Mark Mossman, Associate Provost and Director of Graduate Studies

Graduate Research Conference Planning Committee

Dinesh Ekanayake, Hoyet Hemphill, Kishor T. Kapale (Chair), Jonathan Hammersley, James McQuillan, Amy Patrick Mossman, and Amanda Schulz.

Conference Day Volunteers

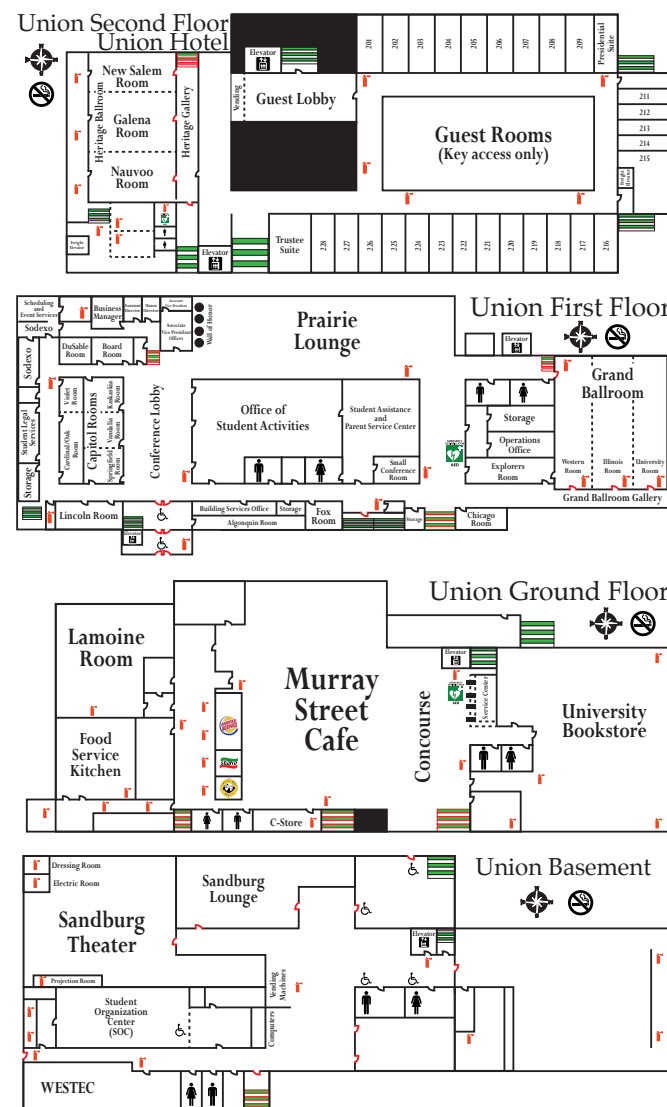
Al-Maliq Adetunji, Mariam Badmus, Anup Dahal, Kushal Dahal, Alaric Evans,
Md Hasibul Hasan Hasib, Md Nazmul Nihad, Punya Paudel, AKM Ashiqur
Rahman, and Amisha Rane

Judges

Fedor Andreev, Steven Bennett, Davison Bideshi, Roberta Carmine, Dennis DeVolder, Amy Ekanayake, Dinesh Ekanayake, Aastha Gupta, Sunita George,
Randy Glean, Jonathan Hammersley, Sue Hum, Jin Jin, Aparna Kapale,
Douglas Lafountain, David Lane, Saisudha Mallur, Anthony McBride, Sandra McFadden, Heather McIlvaine-Newsad, Steve Radlo, Mette Soendergaard,
Liguo Song, Feridun Tasdan, Lora Wallace, and Mei Wen.

Moderators

Aastha Gupta, P. K. Babu, Maureen Bezold, Merrill Cole, Rashmi Sharma,
Saisudha Mallur, Shawn Meagher, and William Thompson



Thank You!