

# MIGHTY LXV Conference Program

📍 Room 125, Robert Bell Building   🏛️ Ball State University   📅 April 17–18, 2026

Mathematics, graph theory, and related interdisciplinary research

## 📌 Conference Notes

- 🕒 **Talk Format:** Each contributed talk is 15 minutes, followed by 5 minutes for Q&A and transition.
- 🗨️ **Discussion Space:** RB 104 and RB 122 will be open for informal discussions.

## Friday, April 17

📅 **Registration and Coffee** 4:00–4:30

Check-in and informal welcome.

👥 **Opening Remarks** 4:30–4:40

Jay Bagga, Jennifer Coy, Dan Rutherford

👥 **Session I** 4:40–6:00

*Chair: Sugandha Malviya, Ball State University*

🎤 **Roza Aceska, Ball State University** 4:40–5:00

**On Difference Distance Magic Labelings**

🎤 **Ritabrato Chatterjee, Western Michigan University** 5:00–5:20

**On Ramsey Chains in Graphs**

🎤 **Alessandro Maria Selvitella, Purdue University Fort Wayne** 5:20–5:40

**Graph-Theoretic Problems Arising from Locomotion Biomechanics: From Anatomical Networks to Spectral & Hybrid Graph Theory**

🎤 **Adithya Kulkarni, Ball State University** 5:40–6:00

**Optimizing Crowdsourcing Budgets for Graph-Based Annotation Using Markov Decision Processes**

🍴 **Dinner on Your Own** 6:00–

## Saturday, April 18

📅 **Registration and Coffee** 8:30–9:00

Morning check-in and coffee.

★ **Invited Speaker** 9:00–10:00

*Chair: Adithya Kulkarni, Ball State University*

**Dawei Zhou**

Assistant Professor, Department of Computer Science, Virginia Tech

*Open-World Graph Long-Tailed Learning: Theories, Algorithms, and Applications*

☕ **Coffee Break** 10:00–10:30

Refreshments.

★ **Welcome Remarks and Harary Lecture** 10:30–11:30

*Chair: Jay Bagga, Ball State University*

**Welcome Remarks: Dean Maureen McCarthy**

Dean of the College of Sciences and Humanities, Ball State University

**Lowell Beineke**

Schrey Professor Emeritus, Purdue University Fort Wayne

*Milestones in Graph Theory: A Century of Progress*

👥 **Session II** 11:30–12:30

*Chair: Xin Sun, Ball State University*

🎤 **Andrew Bowling, Wabash College** 11:30–11:50

**Strong Generative  $\tau$ -Zonal Labelings**

🎤 **Zach Wilcher, Ball State University** 11:50–12:10


**Sparse Difference-Distance Magic Oriented Graphs**

 **McKailyn Lort, Ball State University** 12:10–12:30

**Difference Distance Magic Oriented Graphs (DDMOGs) and Ornaments**

 **Conference Photo** 12:30–12:35

Group photo.

 **Lunch Break** 12:35–2:00

Lunch on your own.

 **Session III** 2:00–3:20

*Chair: Justin Murray, Ball State University*

 **Allan Bickle, Purdue University** 2:00–2:20

**Classes of Chvatal-Erdos Graphs**

 **Tim Brauch, Manchester University** 2:20–2:40

**Stack Domination Density of Prism Graphs**

 **Munagala V. S. Ramanath, Software Engineer (retired)** 2:40–3:00


**Non-Hamiltonian 2-regular Digraphs**

 **Lee Blake and Xin Sun, Ball State University** 3:00–3:20


**Graph-Based Framework for Optimal Prefix Assignment in Enterprise Networks**

 **Coffee Break** 3:20–3:40

Refreshments.

 **Session IV** 3:40–4:50

*Chair: Roza Aceska, Ball State University*

 **Sugandha Malviya, Ball State University** 3:40–4:00

**Viewing Traceability Information Models as Knowledge Graphs for AI-Assisted Requirements Engineering**

 **Justin Murray, Ball State University** 4:00–4:20

**Algebraic and Topological Aspects of Graph Braid Groups**

 **Closing Remarks** 4:20–4:30

Jay Bagga

Thank you for attending MIGHTY LXV at Ball State University