

# 2025 ARISE ANNUAL SYMPOSIUM

DAY 1: **April 3, 2025 - Thursday**



*Location: The Garden City Event Space at Clarion Inn*

1911 E Kansas Ave, Garden City, KS

All sessions in the Grand Banquet Hall unless otherwise noted.

<b>8:00 AM</b>	<b>Check-In</b>
<b>8:00</b>	<b>Continental Breakfast</b> <i>Pastries, yoghurt, fruit, coffee, juice</i>
<b>8:30</b>	<b>Welcome and Opening Remarks</b> Belinda Sturm, Director of Kansas NSF EPSCoR, Professor, Engineering, KU
<b>8:45</b>	<b>Keynote (45-minute talk, 15-minute Q&amp;A)</b> Dr. Ann-Margaret Esnard, Distinguished University Professor, Georgia State University "Recovery & resilience research: planning and policy perspective"
<b>9:45</b>	<b>Break</b>
<b>10:00</b>	<b>Community Studios (60 minutes)</b> Jason Bergtold, Professor, Agricultural Economics, K-State
<b>11:00</b>	<b>Elevator Pitch (3 minutes)</b> Rumana Sharmin, Graduate Student, KU
<b>11:05</b>	<b>Youth Outreach: Overview, Demos, Reflections, and Leveraging</b> Teresa MacDonald, Associate Director of Informal Science Education, KU Biodiversity Institute & Natural History Museum with Eleanor Gardner and others
<b>12:00 PM</b> <i>Fountain</i>	<b>Lunch</b> <i>Grilled chicken, vegetarian pasta primavera, salads, potatoes, corn, and rolls</i>
<b>1:10</b>	<b>Infrastructure Panel Conversation: Building Resilient Energy &amp; Water Systems (45 mins)</b> Moderator: Amanda Sharma, Project Associate, Environmental Finance Center, WSU Panelists: Fred Jones, Water Resource Manager, Garden City; and Kyndell Penick, Vice President of Safety & Key Accounts, Victory Electric Cooperative Association
<b>1:55</b>	<b>NSF Convergence Accelerator Emerges from ARISE Investments (20 minutes)</b> William Duncan, Assistant Research Professor, KU "Leveraging the V's of Data for Water Resource Management"
<b>2:15</b>	<b>Elevator Pitch (3 minutes)</b> Benjamin Lofland, Undergraduate Student, KU, "Synthesizing Drinking Water Distribution Networks from Readily Available Data"
<b>2:20</b>	<b>Group photo</b>
<b>2:30</b>	<b>Break</b>
<b>2:45</b>	<b>Community Partners Promoting Health and Well Being in Kansas (30 minutes)</b> Introduced by Christina Pacheco, Assistant Professor, KU Medical Center with Clarissa Carillo Martinez representing the Counties of Ford, Finney, and Seward Kimberly Weaver, Wyandotte, "How Our Community Advisory Board United a Community"
<b>3:15</b>	<b>Seed Grants (10 minutes each + 5 minutes Q&amp;A)</b> Xiaolong Guo, Associate Professor, K-State, Research and Education Innovation Award: "Guarding the Gatekeepers: Ensuring the Safety of IoT Sensors in Essential Infrastructure"
<b>3:25</b>	Matthew Howland, Assistant Professor, WSU, First Award: "Improving Cultural Heritage Resilience through Modeling & Quantification of Erosion Risks to Sites in Kansas"
<b>3:40</b>	<b>External Evaluation Findings</b> Eric Welch, Professor, School of Public Affairs, Arizona State University
<b>4:00</b> <i>Terrace</i>	<b>Poster Session &amp; Reception</b> <i>Appetizers and cash bar</i>
<b>5:30</b>	<b>Adjourn Day 1</b>
<b>7:00</b>	<b>PSLG-led social mixer and dinner open to all attendees (details to follow)</b>

Abbreviations: ARISE stands for **A**daptive and **R**esilient **I**nfrastructures driven by **S**ocial **E**quity; Kansas State University (K-State); University of Kansas (KU); Wichita State University (WSU); PSLG stands for Postdoc/Student Leadership Group

[Symposium website](#)

# 2025 ARISE ANNUAL SYMPOSIUM

DAY 2: **April 4, 2025 - Friday**

All sessions in the Grand Banquet Hall unless otherwise noted.



<b>7:30 AM</b>	<b>Continental Breakfast</b> <i>Pastries, yoghurt, fruit, coffee, juice</i>
<b>8:00</b>	<b>Welcome and Opening Remarks</b> Belinda Sturm / Bala Natarajan
<b>8:10</b>	<b>ARISE Research: Theme 1 (10 minutes each + 15 minutes Q&amp;A)</b> Adaeze Okeukwu-Ogbonnaya, Graduate Student, K-State: "Ranking on LLM-Based Community Surveys for Operational Decisions in Hetero-Functional Graph of Utility Infrastructures"
<b>8:20</b>	Yongwang Ren, Postdoc, K-State: "Determinants of Willingness-to-Pay to Avoid Water Outage under Extreme Weather Events"
<b>8:30</b>	Eliyasu Osman, Graduate Student, K-State: "Assessing Energy Insecurity and Energy Burden across Urban and Rural Households in Kansas"
<b>8:40</b>	15 minutes Q&A
<b>8:55</b>	<b>ARISE Research: Theme 2 (15 minutes + 5 minutes Q&amp;A)</b> Rahul Madbhavi, Postdoc, K-State: "Beyond the Initial Blow: Co-simulation and HFGT for Holistic Disaster Impact Analyses"
<b>9:15</b>	<b>ARISE Research: Theme 1 and 3 (15 minutes + 5 minutes Q&amp;A)</b> Adaeze Okeukwu-Ogbonnaya, Graduate Student, K-State: "A Stochastic Hetero-Functional Graph of Interdependence Infrastructure - An Agent Based Modeling Approach"
<b>9:35</b>	<b>Break</b>
<b>9:50</b>	<b>Education Initiatives (10 minutes each + 10 minutes Q&amp;A)</b> Safia Malallah, Teaching Assistant Professor, K-State: "ARISE Virtual World for Data Science Education for Young Learners"
<b>10:00</b>	William Duncan, Assistant Research Professor, Institute for Policy & Social Research, KU: "Kansas Data Science Consortium Community Data Labs"
<b>10:20</b>	<b>ARISE Research: Theme 4 (60 minutes)</b> All-Team discussion about designing useful tools for the community Rachel Krause, Professor, Public Affairs & Administration, KU Elaina Sutley, Associate Professor, Engineering, KU
<b>11:30</b> <i>Fountain</i>	<b>Lunch</b> <i>Taco bar</i>
<b>12:30</b> <i>North</i> <i>Central</i> <i>South</i>	<b>1st Breakout Session (40 minutes)</b> <ul style="list-style-type: none"><li>• New directions for community elements of the HFG – Elaina Sutley</li><li>• New directions in education &amp; workforce development – Claudia Bode</li><li>• Planning for community engagement with COPE/LHEAT partners – Alej Martinez</li></ul>
<b>1:10</b>	<b>Transition time</b>
<b>1:15</b> <i>North</i> <i>Central</i> <i>South</i>	<b>2<sup>nd</sup> Breakout Session (40 minutes)</b> <ul style="list-style-type: none"><li>• Proposal / publication coordination for faculty and staff</li><li>• Students and postdocs meeting – Liz Ruder</li><li>• Space available for spontaneous meetings</li></ul>
<b>1:55</b> <i>North</i>	<b>Wrap up - Prize giveaway!</b>
<b>2:00</b>	<b>Adjourn</b>