

EMBRIO INSTITUTE ANNUAL RETREAT 2024
JULY 11 – 12
MARTIN C. JISCHKE HALL OF BIOMEDICAL ENGINEERING ([MJIS](#)) ROOM 1097
Day 1: Thursday July 11 *Biological Thrusts w/ CORE Integration & ABIDES*

 8 - 8:30 Registration/T-Shirt/ Place Research Posters on boards. Beverages and snacks available (*no food allowed in 1097 – it is a lab space for the department. Beverages w/lids or in flasks are allowed*).

We ask folks to be engaged during talks and kindly ask to stay off phones and close laptops. We've built in 5 min e-breaks throughout + bio-breaks.

8:30 – 8:45	Welcome & Overview of the Institute (David Umulis)	Wifi for non-Purdue members: Under available networks choose "attwifi" No password required
8:45 – 9:00	Highlights from the 2024 Summer School (Ale Magana, Steph Gardner, Anjali Iyer-Pascuzzi).	
5 min e-Break		
9:05 – 10:15	ABIDES Career Panel (Anjali Iyer-Pascuzzi, see p.3)	
Bio-break		
10:30 – 11:30	<i>30 min for each Thrust project, e.g. T1A, T1B, w/CORE integrated</i> Thrust 1: Intracellular cellular signaling and integration. Session Chair: David Gazzo, Ph.D. Student, Zartman Lab	
<u><i>Thrust 1 Leads</i></u> <i>Thrust 1A</i> <i>Thrust 1B</i>	<i>Tami Kinzer-Ursem</i> <i>Janice Evans</i>	
11:30 Lunch	Group Photo on BME stairwell Commons outside 1097	
1PM	Poster Lightning Talks I (1 min each, w/ connection to Thrust areas)	
1:30 – 2:30	Thrust 2 Cellular to multicellular communication and coordination. Session Chair: Agnes Dospoly, Ph.D. Student, Kinzer-Ursem Lab	
<u><i>Thrust 2 Leads</i></u> <i>Thrust 2A</i> <i>Thrust 2B</i>	<i>Chris Staiger</i> <i>Jeremy Zartman</i>	
5 min e-Break		
2:35 – 3:35	Thrust 3 Multicellular to organism-wide coordination and emergence Session Chair: Nilay Kumar, Sr. Research Scientist, Pienaar Lab and Buganza Tepole Lab	
<u><i>Thrust 3 Leads</i></u> <i>Thrust 3A</i> <i>Thrust 3B</i>	<i>Mary Mullins</i> <i>Qing Deng</i>	
Bio-break		
3:45 – 5PM Post-Day 1 5:30 - 8	Poster Session I On own – Small Groups Thrust Leaders EMBRIO 2.0 Discussion (5:30 – 6:30) & Dinner (6:30 – 8)	

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MARTIN C. JISCHKE HALL OF BIOMEDICAL ENGINEERING ([MJIS](#)), ROOM 1097

Day 2: Friday July 12 *Educational Research, Curriculum, Professional Development & Data Management*

Beverages/Snacks available (food not allowed in 1097, drinks w/ lids allowed)

<p>8:30 – 9:30</p> <p><u>Thrust 4 Leads</u></p>	<p>Thrust 4: Pedagogical research, training, diversity, and outreach Session Chair: Maria Unger, Postdoc Scholar, Zartman Lab</p> <p><i>New EMBRIO Course pilot: Janice Evans, Ale Magana, Grad Instructors: Aby, Nissa, Soumi, and Students' feedback)</i> <i>James Glazier Lab– Hayden Fennell: E-Book project</i></p>
<p>9:30</p> <p>Scientific Figure Winners</p> <p>e-Break/Bio-break</p>	<p>Poster Lightning Talks II (1 min each, w/ connection to Thrust areas)</p> <p>Scientific Figure Winners Announced!</p>
<p>10 – 11</p> <p>Bio-break</p>	<p>Data Management & Data Sharing Session (Scott Bolton)</p>
<p>11:15 – 12:30</p>	<p>Poster Session II</p>
<p>12:30</p> <p>Lunch</p>	<p>Final Remarks/ Send off</p> <p>(Boxed Lunches available 12:30. Please no food in the 1097 room)</p> <p>Informal afternoon activities that have been suggested (not organized): Small group outings Purdue EMBRIO Research Lab Tours Purdue Union Rack & Roll: Bowling, Billiards, and new Boiler Game Mine Escape Room: Rugged Xscape</p>

ABIDES CAREER PANEL – Thursday, July 11th, Morning Session

Most PhD graduates in STEM fields in the United States will not be hired into research-based tenure track academic positions. Although many students entering doctoral research thesis-based STEM programs have their sights set on becoming a professor and researcher at a top tier university, at some point during their research and course work, many students decide that pursuing an academic primarily research track is *not* for them. What then? This career panel speaks specifically to some of the many professional career opportunities for PhD graduates, including teaching, technology commercialization, and software development. Panel members will answer questions about their own career paths and will discuss decisions they've made along the way.

Susana Diaz-Amaya, International Financial Institutions Portfolio Manager, Bayer. Dr. Diaz-Amaya received her Ph.D. from Purdue University in Materials Engineering, Biomaterials & Biosensors.

Kay Kobak, Associate Director of Engineering Undergraduate Research, Purdue Engineering. Dr. Kobak received her Ph.D. in Genetics from Stanford University.

Raquel Peron Danaher, Licensing Analyst (Life Sciences), Purdue Office of Technology Commercialization. Dr. Peron received her Ph.D. in Precision Agriculture, Agronomy, and Crop Science from Purdue University.

Benjamin Spears, Assistant Professor of Biology at Butler University. Dr. Spears received his PhD in Plant, Insect, and Microbial sciences from the University of Missouri-Columbia.

Matthew Thompson, Research Software Engineer, Imageomics Institute, The Ohio State University. Dr. Thompson received his PhD in Biomedical Engineering from Purdue University.