

# GREAT LAKES MOLECULAR IMAGING

## PROGRAM

### Wednesday, July 24<sup>th</sup>:

- 3:00 – 4:00 Arrive and check into dorm room  
**Location: Cook Residence Hall**
- 3:30 – 5:00 Course check in (pick up course materials, set up poster)  
Vendor table visits  
**Location: The Great Room, Jim And Martie Bultman Student Center**
- 5:00 – 6:00 Dinner  
**Location: Phelps Dining Hall**

### **Welcoming Reception at Boatwerks**

- 6:15 & 6:30 Bus departing to venue  
Departure location: Cook Residence Hall
- 7:00 – 7:15 Course overview and purpose - Ashley Makela (MSU) and John Ronald (Western)
- 7:15 – 8:15 Molecular imaging research and training, facilities, educational strategies and potential routes for collaboration
- Paula Foster, PhD – Western Molecular Imaging Graduate Program
  - Christopher Contag, PhD – IQ and Integrating Imaging into Biomedical Research
  - Kurt Zinn, PhD – Academic Success and Foundational Training
  - Savita Dhanvantari, PhD – Equity and Diversity in Molecular Imaging - The WIMIN Perspective
- 8:15 – 11:00 Networking, activities and reception
- 10:45 & 11:00 Bus departing to return to Cook Hall

### Thursday, July 25<sup>th</sup>:

- 7:00 – 8:00 Breakfast  
**Location: Phelps Dining Hall**

### **Jim And Martie Bultman Student Center**

- 8:15 – 9:45 **Instructional Session 1: The Clinical Need for Molecular Imaging**  
**Location: Auditorium**
- Mark DeLano: Clinical Needs and Applications of Molecular Imaging
  - Adam Alessio: Physics of Clinical Molecular Imaging
- 9:45 – 10:15 Break (Poster session)  
**Location: The Great Room**
- 10:30 – 12:00 **Instructional Session 2: Starting at the Cellular Level – Microscopic Investigation**  
**Location: Auditorium**

- Ripla Arora: Confocal and Molecular Microscopy
- Taeho Kim/Bryan Smith: Ultrasound and Photoacoustics

12:00 – 1:00 Lunch  
**Location: Phelps Dining Hall**

**Jim And Martie Bultman Student Center**

1:15 – 2:45 **Instructional Session 3: Shining the Light on Reporter Genes – Optical, Intravital and Other Imaging Modalities**  
**Location: Auditorium**

- Christopher Contag: Optical and Intravital Imaging
- John Ronald/Michael Bachmann: Reporter Genes for Different Modalities, Basic and Advanced Cell Engineering Techniques

2:45 – 3:15 Break (Poster session)  
**Location: The Great Room**

3:30 – 5:00 **Instructional Session 4: Nuclear Medicine – Physics, Instrumentation and Imaging Methods**  
**Location: Auditorium**

- Kurt Zinn/Jonathan Thiessen: PET, SPECT, Radiotherapy and PET/MRI
- Justin Hicks/Ting Lee: Short Half-life Radiochemistry and Kinetic Modelling

5:00 – 6:00 Dinner  
**Location: Phelps Dining Hall**

**Jim And Martie Bultman Student Center**

6:15 – 8:30 **Evening research talks**  
**Location: Auditorium**

- Anna Moore: Nanomedicine and Image Guided Therapy
- Savita Dhanvantari: Using Targeting Imaging Approaches To Identify Disease Biomarkers
- Masamitsu Kanada/Masako Harada: Imaging Extracellular Vesicles

8:30 - 11:00 Pub night  
**Location: Our Brewing**

Friday, July 26<sup>th</sup>:

7:00 – 8:00 Breakfast  
**Location: Phelps Dining Hall**

**Jim And Martie Bultman Student Center**

8:15 – 9:45 **Instructional Session 5: Magnetic Resonance Imaging (MRI) – Instrumentation and Image formation**  
**Location: Auditorium**

- Erik Shapiro/Assaf Gilad: MRI Basics, Instrumentation for Molecular Imaging and MR Contrast Formation
- Galit Pelled: Functional MR Imaging

9:45 – 10:15 Break (Poster session)  
**Location: The Great Room**

10:30 – 12:00 **Instructional Session 6: MRI Applications and Magnetic Particle Imaging (MPI)**  
**Location: Auditorium**

- Peter Wang/Timothy Scholl: MRI of Metabolism
- Paula Foster: Cellular MRI and MPI – Principles and Practice

12:00 – 1:00 Lunch  
**Location: Phelps Dining Hall**

**Jim And Martie Bultman Student Center**

1:15 – 2:45 **Instructional Session 7: Innovative Preclinical Imaging**  
**Location: Auditorium**

- Kevin Francis - Translational Imaging in Infectious Disease Research
- Staf C. van Cauter - Omni-tomography: The Next Generation of Multi-Modality Imaging

2:45 - 6:00 Free time

**Closing Reception at Warehouse 6**

6:00 Dinner  
7:00 Keynote Talk

- Tom Meade, Northwestern University

8:00 – 10:00 Reception

Saturday, July 27<sup>th</sup>:

7:00 - 8:00 Breakfast  
**Location: Phelps Dining Hall**

10:00 Check-out from Cook Residence Hall