Wednesday, July 24th:

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 25th:

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 26th:

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 27th:

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

10:00  Check-out from Cook Residence Hall