Preclinical Imaging Consortium 2019

5th Annual Meeting
April 28-30, 2019
Northwestern University
Evanston, IL

Made possible in part by
5th Annual Preclinical Imaging Consortium (PIC) Meeting

The 5th annual Preclinical Imaging Consortium (PIC) meeting is hosted by the Center for Advanced Molecular Imaging (CAMI) at Northwestern University, Evanston, IL.

The mission of PIC is to create a meeting place where knowledge of operating preclinical imaging facilities is shared openly.

PIC began five years ago as a small gathering of Midwestern preclinical imaging center directors. It has grown rapidly over the past five years, and expanded its scope well beyond the Midwest (hence the name change). PIC brings together experts in preclinical imaging from both academia and industry, with this year’s focus on research rigor and best practices. While other meetings focus on disease models or technical aspects of imaging modalities, one goal of this meeting is to educate imaging scientists about techniques they may be less familiar with. The casual setting of an intentionally small attendance facilitates candid dialog among imaging centers and industry representatives.

In addition to the Program Committee, there are numerous individuals who assisted in planning the meeting. In particular, many thanks to Penelope Johnson for her assistance in coordinating and organizing the meeting, Alex Waters for program planning, as well as Sara Mayol and Anlil Brikha for their assistance.

Importantly, the meeting would not have taken place without the generous support of our numerous sponsors, including host sponsors. On behalf of PIC Program Committee and the attendees, thank you for your continued support.

The 6th annual PIC meeting will be hosted by Michigan State University. We hope you find this year’s PIC engaging and valuable. We look forward to continuing the conversation at Michigan State.

Sincerely,

Chad Haney, PhD and Thomas Meade, PhD

On behalf of the PIC Program Committee

Program Committee
Alex Waters, PhD
Chad Haney, PhD
Charles Manning, PhD
Chin Ng, PhD
Erik Shapiro, PhD
Jenny Yang, PhD
Justin Jeffrey, MS
Kah Whye Peng, PhD
Kooresh Shoghi, PhD
Lara Leoni, PhD
Marty Pagel, PhD
Michael Nichols, PhD
Mohammed Farhoud, MS
Paul Territo, PhD

Host Sponsors
Robert H. Lurie Comprehensive Cancer Center

In Partnership With
World Molecular Imaging Society
PIC Thanks Our Generous Sponsors

Gala Dinner

Platinum Level

Gold Level

Silver Level

Bronze Level
Logistics & Locations at PIC

Registration – Norris University Center, 2nd Floor Lobby

Breakfast and Refreshments – Norris University Center, 2nd Floor Lobby

Presentations (Sunday, Monday, Tuesday) – Louis Room, Norris Center, 2nd Floor

Vendor posters (Sunday, Monday, Tuesday) – Louis, Lake, and Northwestern Rooms, Norris Center, 2nd Floor

Gala Dinner at Smylie Brothers Brewing Co (Sunday at 7:30 PM) - 1615 Oak Ave, Evanston, IL. Buses will depart from Norris Center front entrance at 7:15 PM.

Science & Industry Poster Session (Monday) – Northwestern Room, Norris Center, 2nd Floor

Facility Poster Session & Reception (Monday) – Silverman Hall East Tower, 1st Floor lobby. Facility posters will be on display from Sunday to Monday afternoon in the Lake Room, Norris Center, 2nd Floor.

Lunch (Monday, Tuesday) – Norris Center, 2nd Floor Lobby

Program Committee Exit Meeting (Tuesday) – CAMI conference room, Silverman Hall East, Suite 1529

Facility Tours (Monday) – CAMI tours will be available during the Facility Poster Session on Monday evening. Please sign up for a slot at the registration table. Signups will occur on a first-come first-serve basis until space is filled. Please meet in the CAMI lobby (Silverman 1529) at your scheduled tour time.

Map of Norris Center 2nd floor
5th Annual PIC Meeting Agenda

Sunday, April 28

16:00 – 16:45  Imaging Facility Managers Roundtable (invitation only)

17:00 – 17:20  Welcome, opening remarks
Chad Haney, Northwestern University

17:20 – 17:45  MRI reporter gene
Heather Gray-Edwards, University of Massachusetts

17:50 – 19:00  **Spotlight: Veterinary Best Practices**
Moderator: Nicolette Zielinzki Mozny

  17:50 – 18:15  Functional imaging of the host-microbe interaction
Emma Liechty, Northwestern University

  18:15 – 18:40  Companion animal cancer models used to validate optical imaging agents for cancer detection
Maria Cekanova, UT Knoxville

  18:40 – 19:00  Discussion

19:15  Buses depart for gala dinner

19:30 – 22:00  Gala dinner at Smylie Brothers
Sponsored by Bruker and LCC

Monday, April 29

8:00 – 9:20  **Power Pitch (Vendors)**
Moderator: TBD

9:20 – 10:15  **Spotlight: MRI techniques**
Moderator: James Quirk

  9:20 – 9:45  MRI in preclinical brain and spinal cord trauma: Pulse sequence developments and collaboration initiatives.
Matt Budde, Medical College of Wisconsin

  9:50 – 10:15  Using the water proton resonance to probe the tissue microstructure of postmortem brain tissue.
Sean Foxley, University of Chicago

10:20 – 10:40  Break
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:40 – 11:35</td>
<td>Spotlight: Specific Modalities</td>
<td>Moderator: Brian Roman</td>
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<tr>
<td>10:40 – 11:05</td>
<td>Tracking theranostic nanoparticles using optoacoustic imaging</td>
<td>Lacey McNally</td>
<td>Wake Forest</td>
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<tr>
<td>11:10 – 11:35</td>
<td>Electron Paramagnetic Resonance (EPR) molecular oxygen images: why should we be interested?</td>
<td>Howard Halpern</td>
<td>University of Chicago</td>
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<tr>
<td>11:40 – 12:35</td>
<td>Spotlight: PET Imaging</td>
<td>Moderator: Michael Nichols</td>
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<tr>
<td>11:40 – 12:05</td>
<td>F-18 Tetrafluoroborate as NIS probe</td>
<td>Tim DeGrado</td>
<td>Mayo Clinic</td>
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<tr>
<td>12:10 – 12:35</td>
<td>Attenuation correction for PET/MR</td>
<td>Richard LaForest</td>
<td>Washington University</td>
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<tr>
<td>12:40 – 14:05</td>
<td>Lunch (included)</td>
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<td>Science &amp; Industry poster session</td>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>14:05 – 15:00</td>
<td>Spotlight: Machine Learning &amp; Reconstruction</td>
<td>Moderator: Chris Flask</td>
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<tr>
<td>14:05 – 14:30</td>
<td>AI in medical imaging</td>
<td>Maryellen Giger</td>
<td>University of Chicago</td>
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<tr>
<td>14:35 – 15:00</td>
<td>Model-observer-based image quality metrics for tomographic medical imaging systems development</td>
<td>Xiaochuan Pan</td>
<td>University of Chicago</td>
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<tr>
<td>15:05 – 15:25</td>
<td>Break</td>
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<tr>
<td>15:25 – 16:40</td>
<td>Breakout sessions</td>
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<tr>
<td>16:40 – 17:40</td>
<td>New Facility Talks</td>
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<tr>
<td>17:55 – 19:55</td>
<td>Reception &amp; Facility posters (Silverman Hall) CAMI tours (optional)</td>
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**Tuesday, April 30**

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter</th>
<th>Institution</th>
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<tbody>
<tr>
<td>8:00 – 9:25</td>
<td>Spotlight: Imaging probes</td>
<td>Moderator: Erik Shapiro</td>
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<tr>
<td>Time</td>
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<tr>
<td>8:00 – 8:25</td>
<td>Transition metal contrast agents</td>
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<td></td>
<td><strong>Janet Morrow</strong>, University of Buffalo</td>
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<tr>
<td>8:30 – 8:55</td>
<td>Modality driven design of ferrite nanoparticles: How MPI Tracers deviate from MRI contrast agents</td>
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<td></td>
<td><strong>Ben Fellows</strong>, UC Berkeley</td>
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<td>9:00 – 9:25</td>
<td>Strategies to Improve Cancer Radioimmunotherapy</td>
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<td></td>
<td><strong>Kurt Zinn</strong>, Michigan State University</td>
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<tr>
<td>9:30 – 9:50</td>
<td>Break</td>
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<tr>
<td>9:50 – 10:45</td>
<td><strong>Spotlight: Outside the lab</strong></td>
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<td></td>
<td><strong>Moderator: Paul Territo</strong></td>
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<tr>
<td>9:50 – 10:15</td>
<td>Career Opportunities for Scientists Working in Core Facilities</td>
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<td></td>
<td><strong>Phil Hockberger</strong>, Northwestern University</td>
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<tr>
<td>10:20 – 10:45</td>
<td>Integrating Imaging Data with Multiple Readouts to Understand Mammalian Adaptation to Spaceflight</td>
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<td></td>
<td><strong>Martha Hotz Vitaterna</strong>, Northwestern University</td>
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<tr>
<td>10:50 – 11:10</td>
<td>Break</td>
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<tr>
<td>11:10 – 12:35</td>
<td><strong>Spotlight: Commercialization</strong></td>
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<td></td>
<td><strong>Moderator: Amie Phinny</strong></td>
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<tr>
<td>11:10 – 11:35</td>
<td>Chicago Biomedical Consortium: Supporting Basic Biomedical and Translational Research</td>
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<td></td>
<td><strong>Karen Snapp</strong>, CBC / Northwestern University</td>
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<tr>
<td>11:40 – 12:05</td>
<td>Molecular Imaging Start-ups: Lessons learned</td>
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<td></td>
<td><strong>Jamey Weichert</strong>, University of Wisconsin, Madison</td>
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<tr>
<td>12:10 – 12:35</td>
<td>Biotech Start Ups: What I wish I knew before...</td>
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<td></td>
<td><strong>Thomas Meade</strong>, Northwestern University</td>
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<tr>
<td>12:40 – 13:00</td>
<td>Closing Remarks</td>
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<tr>
<td></td>
<td><strong>Chad Haney</strong>, Northwestern University</td>
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<tr>
<td>13:00 – 14:00</td>
<td>Lunch (included)</td>
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<tr>
<td>14:15 – 15:00</td>
<td>Exit meeting (invitation only)</td>
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</table>
# Power Pitch Presentations

**Monday, April 29 at 8am**

*Presented in (mostly) alphabetical order by company name*

<table>
<thead>
<tr>
<th>Company</th>
<th>Presenter</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BioInVision</td>
<td>Madhu Gargesha, PhD</td>
<td>Mission Impossible: Now You Can Accept The Challenge - The Hunt for Single Cells</td>
</tr>
<tr>
<td>Bruker</td>
<td>Todd Sasser, PhD</td>
<td>SiPM PET imaging advancements</td>
</tr>
<tr>
<td>Emit Imaging</td>
<td>Mat Brevard, MSc</td>
<td>Bridging The Gap Between In Vivo and Histopathology</td>
</tr>
<tr>
<td>Fuji-Visualsonics</td>
<td>Drew Heinmiller</td>
<td>Assessing disease with ease: Multi-modality imaging for multi-disease monitoring in vivo</td>
</tr>
<tr>
<td>inviCRO</td>
<td>Rhonda Silva</td>
<td>Invicro: Medical Imaging Informatics</td>
</tr>
<tr>
<td>Magnetic Insight</td>
<td>Jeff Gaudet, PhD</td>
<td>Directing localized Hyperthermia with Magnetic Particle Imaging: Image, Quantify, Target &amp; Treat</td>
</tr>
<tr>
<td>MILabs</td>
<td>Frank Schwahn</td>
<td>High-Performance, Fully-Integrated PET/SPECT/Optical/Diagnostic CT</td>
</tr>
<tr>
<td>MOLECUBES</td>
<td>Ewout Vansteenkiste, PhD</td>
<td>Accelerating Preclinical Imaging - MOLECUBES</td>
</tr>
<tr>
<td>MR Solutions</td>
<td>Gilberto Prudencio, BSc</td>
<td>Preclinical Multimodality Innovations</td>
</tr>
<tr>
<td>Sofie</td>
<td>Patrick Phelps</td>
<td>SOFIE - From Start to Clinic</td>
</tr>
<tr>
<td>Spectral Imaging</td>
<td>Bo Nelson</td>
<td>Improved, Next Generation, Small Animal Optical Imaging Systems</td>
</tr>
<tr>
<td>ThermoFisher</td>
<td>Alexander S. Hall, PhD</td>
<td>Amira Software – The Flexible Biomedical Image Analysis Toolkit</td>
</tr>
<tr>
<td>iThera</td>
<td>Tullio Giannitti</td>
<td>Multispectral Optoacoustic Tomography aka MSOT imaging: When Exciting with Light Sounds Amazing</td>
</tr>
</tbody>
</table>
# Facility Posters

**Presented Monday, April 29 at 6pm in Silverman Hall**

Posters will be on display from Sunday 5pm - Monday 5pm in Norris Lake Room

<table>
<thead>
<tr>
<th>Poster #</th>
<th>Presenting Author</th>
<th>Title/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>F1</td>
<td>Alaina Marquardt, BS</td>
<td>Colorado-Based MAFI (Multimodal Advance Fast Imaging) in Mouse Brain Tumor Models</td>
</tr>
<tr>
<td>F2</td>
<td>Alex Waters, PhD</td>
<td>Center for Advanced Molecular Imaging at Northwestern University</td>
</tr>
<tr>
<td>F3</td>
<td>Ali Arbab, MD, PhD</td>
<td>Core Imaging Facilities for Small Animals at Augusta University</td>
</tr>
<tr>
<td>F4</td>
<td>Allison Cohen, PhD</td>
<td>Vanderbilt Center for Molecular Probes</td>
</tr>
<tr>
<td>F5</td>
<td>Anna Bratasz, PhD</td>
<td>The OSU Small Animal Imaging Core Facility</td>
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<tr>
<td>F6</td>
<td>Ashley Weichmann, BS</td>
<td>UW Small Animal Imaging and Radiotherapy Facility (SAIRF)</td>
</tr>
<tr>
<td>F7</td>
<td>Christiane Mallett, PhD</td>
<td>Michigan State University Molecular and Cellular Imaging Center</td>
</tr>
<tr>
<td>F8</td>
<td>James Quirk, PhD</td>
<td>Biomedical Magnetic Resonance Laboratory at Washington University School of Medicine</td>
</tr>
<tr>
<td>F9</td>
<td>Jenna Steiner, AAS, CVT</td>
<td>Colorado Animal Imaging Shared Resources</td>
</tr>
<tr>
<td>F10</td>
<td>Jenny J. Yang, PhD</td>
<td>Atlanta Translational Imaging Consortium</td>
</tr>
<tr>
<td>F11</td>
<td>Lara Leoni, PhD</td>
<td>The Integrated Small Animal Imaging Research Resource</td>
</tr>
<tr>
<td>F12</td>
<td>Lixin Ma, PhD</td>
<td>University of Missouri, Dept. of Radiology</td>
</tr>
<tr>
<td>F13</td>
<td>Nicola Bertolino, MS</td>
<td>Center for Translational Imaging at Northwestern University</td>
</tr>
<tr>
<td>F14</td>
<td>Paul Keselman, PhD</td>
<td>Animal Imaging Core at University of Kansas Medical Center</td>
</tr>
<tr>
<td>F15</td>
<td>Susan Walsh, MA</td>
<td>Small Animal Imaging Core at University of Iowa</td>
</tr>
<tr>
<td>F16</td>
<td>Walter Akers, DVM, PhD</td>
<td>Center for In Vivo Imaging and Therapeutics at St. Jude Children's Research Hospital</td>
</tr>
<tr>
<td>F17</td>
<td>Weiguo Li, PhD</td>
<td>Precinical Imaging Core at University of Illinois at Chicago</td>
</tr>
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</table>
### Science & Industry Posters

**Presented Monday, April 29 at 12:40pm in the Northwestern Room**

<table>
<thead>
<tr>
<th>Poster #</th>
<th>Presenting Author</th>
<th>Title</th>
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<tbody>
<tr>
<td>1</td>
<td>Aaron Safadi, BS</td>
<td>Developing a Contrast Phantom for High Field Preclinical MRI</td>
</tr>
<tr>
<td>2</td>
<td>Amanda Bedwell, MS, RVT, LATG</td>
<td>Creating an Onboarding Program for New Employees</td>
</tr>
<tr>
<td>3</td>
<td>Ben Cox, PhD</td>
<td>Phantech: Innovative hardware and software for medical imaging</td>
</tr>
<tr>
<td>4</td>
<td>Boris Epel, PhD</td>
<td>Oxygen-Guided Radiation Therapy</td>
</tr>
<tr>
<td>5</td>
<td>Hao Li, MS</td>
<td>Molecularly Targeted Multimodal Fluorescence-Magnetic Resonance Imaging Agents for Early Diagnosis of Brain Tumor</td>
</tr>
<tr>
<td>6</td>
<td>Inna Gertsenshteyn, BA</td>
<td>Multimodality Imaging of Hypoxia using EPRI, MRI, and PET/CT</td>
</tr>
<tr>
<td>7</td>
<td>Jonathan Peters, MS</td>
<td>Measurement of the Effect of Acarbose on Sugar Absorption in a Mouse Model Using [14C]-Maltodextrin</td>
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<tr>
<td>8</td>
<td>Kah Whye Peng, PhD</td>
<td>Using NIS Reporter Gene Imaging for Tracking Cellular Therapies</td>
</tr>
<tr>
<td>9</td>
<td>Kierra Eldridge, AAS Vet. Tech.</td>
<td>Lead-Induced Neurotoxicity of the Brain Barrier: Implications for Alzheimer’s Disease</td>
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<tr>
<td>10</td>
<td>Lucas Figueiredo, BS</td>
<td>Model-AD: Time dependent characterization of novel mice models of Alzheimer's disease.</td>
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<tr>
<td>11</td>
<td>Mattia Quattrocelli, PhD</td>
<td>Weekly low-dose glucocorticoids remodel muscle metabolism and curtail steroid side effects</td>
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<tr>
<td>12</td>
<td>Maxim Slesarev, BS</td>
<td>MicroPET: A Platform for Neuroimaging</td>
</tr>
<tr>
<td>13</td>
<td>Nicola Bertolino, MS</td>
<td>Cognitive neuroimaging of Awake Rabbits</td>
</tr>
<tr>
<td>14</td>
<td>Scott Persohn, BA</td>
<td>Utilization of the Paxinos-Franklin Mouse Brain Atlas with 64Cu-PTSM PET Tracer in APOE4, TREM2R47H and APOE44 TREM2 Mice-Correlation of PET and Autorad</td>
</tr>
<tr>
<td>15</td>
<td>Steven Johnson, PhD</td>
<td>Whole-body assessment of drug toxicity</td>
</tr>
<tr>
<td>16</td>
<td>Thomas Hope, PhD</td>
<td>Using PET/CT to study iv antibody distribution and analysis of SIV/HIV infected cells after initiation of antiretroviral treatment.</td>
</tr>
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</table>
Walking Map Between Hotel Orrington, Norris, and Smylie Bros.

https://goo.gl/maps/HZYoFvAr6vH2

The above link & QR code contain walking directions to the Sunday evening gala dinner, generously sponsored by Bruker BioSpin and the Robert H. Lurie Comprehensive Cancer Center.

Buses will be available at 7:15 PM to take you to Smylie Brothers Brewing Co. If you wish to walk, or to stop at the Hilton Orrington, the directions in the link above will get you to dinner in 20 minutes walking.
Attendees

Aaron Safadi, BS.   University of Colorado.
Adam Verheyen.   Molecubes.
Adnan Bibic, PhD.   Johns Hopkins University.
Agnes Thorarinsdottir, BSc.   Northwestern University.
Alaina Marquardt.   University of Colorado.
Alan Stuckey, BA.   UT Knoxville Graduate School of Medicine.
Aleksa Fortuna, BS.   University of Michigan.
Alex Waters, PhD.   Northwestern University.
Alexander Hall, PhD.   Thermo Fisher Scientific.
Alexis Demonbreun, PhD.   Northwestern University.
Ali Arbab, MD, PhD.   Augusta University.
Allison Cohen, PhD.   Vanderbilt University Medical Center.
Alyssa Appel.   Perimed Inc..
Amanda Bedwell, MS, RVT, LATG.   Indiana University School of Medicine.
Amie Phinney, PhD.   Lakeside Discovery / INVO.
Andrew Heinmiller, MSc.   FujiFilm VisualSonics.
Andrew Heinmiller.   FujiFilm VisualSonics.
Andrew Ott, PhD.   FujiFilm VisualSonics.
Angki Kandela, PhD.   Northwestern University.
Anlil Brikha.   Northwestern University.
Anna Bratasz, PhD.   The Ohio State University.
Anne Kanta, BS.   Takeda.
Ashley Weichmann, CVT.   University of Wisconsin - Madison.
Austin Moy, PhD. TriFoil Imaging.
Ben Persohn. Indiana University.
Benjamin Cox, PhD. Phantech LLC.
Benjamin Fellows, PhD. University of California, Berkeley.
Betty Theriault, DVM, DACLAM. University of Chicago.
Bin Jiang, PhD. Northwestern University.
Bo Nelson. Spectral Instruments Imaging.
Boris Epel. University of Chicago.
Brad Freese, MPH. Mediso USA.
Bradley A. Hooker. AbbVie.
Bret Hawkins. FujiFilm VisualSonics.
Brian Roman, PhD. University of Chicago.
Bryan Scott, BS. BioInVision, Inc..
Casey Adams. Northwestern University.
Chad Haney, PhD. Northwestern University.
Charles Kingsley. University of Texas MD Anderson Cancer Center.
Charles Manhardt, PhD. Xstrahl, Inc..
Charles Manning, PhD. Vanderbilt University Medical Center.
Chin Ng, PhD. University of Louisville.
Chris Flask, PhD. Case Western Reserve University.
Christiane Mallett, PhD. Michigan State University.
Christopher Contag, PhD. Michigan State University.
Daniel Franklin. Northwestern University.
Daniele Procissi. Northwestern University.
Dave Harris, PhD. Northwestern University.
Dilip Maddirela, PhD. Medical College of Wisconsin.

Don Wilke. MILabs.

Ehsanul Hoque Apu, PhD. Michigan State University.

Emil Sidky, PhD. University of Chicago.

Emily Greeson, BS. Michigan State University.

Emma Liechty, DVM. Northwestern University.

Erica Markiewicz. University of Chicago.

Erik Shapiro, PhD. Michigan State University.

Ewout Vansteenkiste, PhD. Molecubes.

Frank Schwahn, BS. MILabs.

Fred Haberle. Aspect Imaging.

Gilberto Prudencio, BSc. MR Solutions.

Gyu Seong Heo, PhD. Washington University in St. Louis.

Hao Li. Northwestern University.

Heather Gray-Edwards, PhD. University of Massachusetts.

Heejong Kim, PhD. University of Chicago.

Howard Halpern, MD, PhD. University of Chicago.

Hsiu-Ming Aaron Tsai, PhD. University of Chicago.

Illes Muller. Mediso USA.

Inna Gertsenshteyn, BA. University of Chicago.

Irwin Feuerstein, MD. National Institute of Allergy and Infectious Diseases.

Iwona Dobrucka, PhD. Beckman Institute, University of Illinois.

James Quirk, PhD. Washington University School of Medicine.

Jamey Weichert, PhD. University of Wisconsin - Madison.

Janet Morrow, PhD. University at Buffalo, SUNY.

Jeff Sumeracki. Bruker BioSpin.
Jeffrey Gaudet, PhD. Magnetic Insight.

Jenna Steiner, AASCVT. University of Colorado.

Jenny Jie Yang, PhD. Georgia State University.

Jenny Zhang, MD. Northwestern University.

Jessica E Hornick, PhD. Northwestern University.

Jonathan Peters, MS. Indiana University School of Medicine.

Justin Jeffery, BS. University of Wisconsin-Madison.

Kah-Whye Peng, PhD. Mayo Clinic.

Karen Snapp, DDS, PhD. Chicago Biomedical Consortium.

Katherine Amato, PhD. Northwestern University.


Kierra Eldridge, AASCVT. Indiana University School of Medicine.

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