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| **FRIDAY • 15 June 2018** | **Onsite Registration Opens 14:00 - 20:00** |
| ***Pick up your meeting materials early & avoid the weekend lines!*** | |
| **SATURDAY • 16 June 2018** | **Registration Hours 06:30-18:00** |
| **Saturday • Morning Sessions** | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **Educational Course**  [**Deep Learning: Everything You Want to Know**](https://www.ismrm.org/18/program_files/WE08AB.htm) | **Educational Course**  [**Physics for Physicists**](https://www.ismrm.org/18/program_files/WE01AB.htm) | **Educational Course**  [**Introduction to fMRI: Basics & Applications**](https://www.ismrm.org/18/program_files/WE04AB.htm) | **Educational Course**  [**MR Systems Engineering**](https://www.ismrm.org/18/program_files/WE02AB.htm) | **Educational Course**  [**Advanced Clinical MR Imaging in MSK**](https://www.ismrm.org/18/program_files/WE05AB.htm) | **Educational Course**  [**Body MRI: Realities & Controversies**](https://www.ismrm.org/18/program_files/WE03AB.htm) | **Educational Course**  [**Analyzing the Brain: New Paradigms**](https://www.ismrm.org/18/program_files/WE07AB.htm) | **Educational Course**  [**Molecular Imaging for Beginners**](https://www.ismrm.org/18/program_files/WE06AB.htm) | | **08:00-11:30 Room N01** | **08:00-11:15 Room N02** | **08:00-11:40 Room N03** | **08:00-11:30 Room N04** | **08:00-11:30 Room S01** | **08:00-11:30 Room S02** | **08:00-11:30 Room S03** | **08:00-11:40 Room S04** | | |
| ***LUNCH BREAK 12:15 - 13:15*** | |
| **Saturday • Afternoon Sessions** | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **Educational Course**  [**Statistical Analysis for Imaging Studies**](https://www.ismrm.org/18/program_files/WE12AB.htm) | **Educational Course**  [**Physics for Physicists**](https://www.ismrm.org/18/program_files/WE01CD.htm) | **Educational Course**  [**Advanced fMRI: Connectivity & Cutting Edge**](https://www.ismrm.org/18/program_files/WE09AB.htm) | **Educational Course**  [**MR Systems Engineering**](https://www.ismrm.org/18/program_files/WE02CD.htm) | **Educational Course**  [**Advanced Clinical MR Imaging in MSK**](https://www.ismrm.org/18/program_files/WE05CD.htm) | **Educational Course**  [**Body MRI: Realities & Controversies**](https://www.ismrm.org/18/program_files/WE03CD.htm) | **Educational Course**  [**MR for Neuropsychiatric Disorders**](https://www.ismrm.org/18/program_files/WE11AB.htm) | **Educational Course**  [**Novel Approaches in Molecular Imaging**](https://www.ismrm.org/18/program_files/WE10AB.htm) | | **13:15-16:45 Room N01** | **13:15-16:30 Room N02** | **13:15-16:55 Room N03** | **13:15-16:45 Room N04** | **13:15-16:45 Room S01** | **13:15-16:43 Room S02** | **13:15-16:45 Room S03** | **13:15-16:43 Room S04** | | |
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| **SUNDAY • 17 June 2018** | **Registration Hours 07:00-18:30** |
| **Sunday • Morning Sessions** | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **Educational Course**  [**Concurrent MRI: Imaging of Real-Time Events**](https://www.ismrm.org/18/program_files/WE20AB.htm) | **Educational Course**  [**Image Acquisition & Reconstruction**](https://www.ismrm.org/18/program_files/WE14AB.htm) | **Educational Course**  [**Basics of Perfusion Imaging**](https://www.ismrm.org/18/program_files/WE16AB.htm) | **Educational Course**  [**RF Engineering: Coils**](https://www.ismrm.org/18/program_files/WE13AB.htm) | **Educational Course**  [**Cardiovascular MRI: Vascular**](https://www.ismrm.org/18/program_files/WE15AB.htm) | **Educational Course**  [**Advanced Spectroscopy**](https://www.ismrm.org/18/program_files/WE18AB.htm) | **Educational Course**  [**Lost in Translation: Neuroradiologists vs. Physicists**](https://www.ismrm.org/18/program_files/WE19AB.htm) | **Educational Course**  [**Introduction to Diffusion**](https://www.ismrm.org/18/program_files/WE17AB.htm) | | **08:00-11:30 Room N01** | **08:00-11:30 Room N02** | **08:00-11:28 Room N03** | **08:00-11:30 Room N04** | **08:00-11:40 Room S01** | **08:00-11:40 Room S02** | **08:00-12:00 Room S03** | **08:00-11:30 Room S04** | | |
| ***LUNCH BREAK 12:15 - 13:15*** | |
| **Sunday • Afternoon Sessions** | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **Educational Course**  [**Probing Biomolecules: Magnetic Susceptibility & CEST/MT**](https://www.ismrm.org/18/program_files/WE26AB.htm) | **Educational Course**  [**Image Acquisition & Reconstruction**](https://www.ismrm.org/18/program_files/WE14CD.htm) | **Educational Course**  [**Advanced Topics in Perfusion MRI**](https://www.ismrm.org/18/program_files/WE22AB.htm) | **Educational Course**  [**RF Engineering: Coils**](https://www.ismrm.org/18/program_files/WE13CD.htm) | **Educational Course**  [**Cardiac MR: From the Basics to New Horizons**](https://www.ismrm.org/18/program_files/WE21AB.htm) | **Educational Course**  [**Prostate MRI, MRI in Pregnancy & Genitourinary**](https://www.ismrm.org/18/program_files/WE24AB.htm) | **Educational Course**  [**Is MR/PET Better Than MR + PET for the Brain?**](https://www.ismrm.org/18/program_files/WE25AB.htm) | **Educational Course**  [**Advanced Microstructural Imaging**](https://www.ismrm.org/18/program_files/WE23AB.htm) | | **13:15-16:43 Room N01** | **13:15-16:55 Room N02** | **13:15-16:30 Room N03** | **13:15-16:15 Room N04** | **13:15-16:55 Room S01** | **13:15-16:43 Room S02** | **13:15-16:45 Room S03** | **13:15-16:55 Room S04** | | |
| |  |  |  |  | | --- | --- | --- | --- | | **OPENING SESSION Plenary Hall (Paris Room), 17:00 - 18:15** | | | | | **17:00** |  | **Welcome** | **Daniel K. Sodickson, M.D., Ph.D., ISMRM 2017-2018 President Eric L. J. Achten, M.D., Ph.D., ESMRMB 2016-2018 President** | | **17:30** |  | **Mansfield Lecture How Early Life Events Shape Our Brain: An MRI Perspective** | **Petra S. Hüppi, M.D.** | | **18:15** |  | **Adjournment** | | | |
| |  |  |  | | --- | --- | --- | |  | **Opening Reception 18:30 - 20:00 Exhibition Hall** |  | | |
|  | |
| **MONDAY • 18 June 2018** | **Registration Hours 06:30-18:30 Exhibition Hall 10:00-17:00 Traditional Poster Hall 07:00-20:30** |
| **MONDAY • SUNRISE EDUCATIONAL SESSIONS 07:00 - 07:50** | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **Educational Session**  [**Is ASL Ready to Replace Contrast-Agent Perfusion Methods in the Clinic?**](https://www.ismrm.org/18/program_files/SM04.htm) | **Educational Session**  [**Go Faster in Clinical Imaging: Compressed Sensing**](https://www.ismrm.org/18/program_files/SM03.htm) | **Educational Session**  [**From Diagnosis to Assessing Therapy Response: Rectal Cancer**](https://www.ismrm.org/18/program_files/SM01.htm) | **Educational Session**  [**Advanced Techniques in Cardiovascular MR: More Motion**](https://www.ismrm.org/18/program_files/SM02.htm) | **Educational Session**  [**Application of Molecular Imaging in Cancer**](https://www.ismrm.org/18/program_files/SM05.htm) | **Educational Session**  [**Emerging Methods in MSK MRI: Muscle**](https://www.ismrm.org/18/program_files/SM06.htm) | **Educational Session**  [**Your Brain on Drugs: Alcohol**](https://www.ismrm.org/18/program_files/SM07.htm) | **Educational Session**  [**Maker: Electronics**](https://www.ismrm.org/18/program_files/SM08.htm) | | **Room N03** | **Room N04** | **Room S01** | **Room S02** | **Room S03** | **Room S04** | **Room S05** | **Room S06** | | |
| ***BREAK 07:50 - 08:15*** | |
| **MONDAY • MORNING SESSIONS 08:15 - 10:15** | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Power Pitch Session *(no CME credit)***  **CV PowerBeat: Part 1**  **Power Pitch Theatre A Exhibition Hall** | **Power Pitch Session *(no CME credit)***  **Trending Topics: Flexible, Material, Portable, Wireless**  **Power Pitch Theatre B Exhibition Hall** | **Traditional Poster Session *(no CME credit)***  **Spectroscopy; Musculoskeletal**  **Exhibition Hall** | **Electronic Poster Session *(no CME credit)***  **Neuro; Diffusion**  **Exhibition Hall** | **Study Group Business Meetings Room W07 *(no CME credit)*** | **Study Group Business Meetings Room W08 *(no CME credit)*** | | **Psychiatric MR Spectroscopy & Imaging 08:15-09:15** | **Interventional MR 08:15-09:15** | | **X-Nuclei Imaging 09:15-10:15** | **MR Safety 09:15-10:15** |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **ISMRM-SMRT Joint Forum**  [**AI in Radiology: Man vs. Machine**](https://www.ismrm.org/18/program_files/M02.htm) | **Combined Educational & Scientific Session**  [**Rapid Comprehensive MRI**](https://www.ismrm.org/18/program_files/M03.htm) | **Educational Session**  [**Theranostics & Novel Molecular Probes**](https://www.ismrm.org/18/program_files/M04.htm) | **Member-Initiated Symposium *(no CME credit)***  **QSM: From Principles to Clinical Application** | **Member-Initiated Symposium *(no CME credit)***  **Challenges & Successes in Imaging the Developing Brain** | | **Room N01** | **Room S01** | **Room S02** | **Room S06** | **Room W05/06** |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Scien­tific Session**  **Diffusion MRI: From Fiber Orientation to Connectivity** | **Scien­tific Session**  **fMRI: Physiology & Neurovascular Coupling** | **Scien­tific Session**  **Novel Pulse Sequences** | **Scien­tific Session**  **Young Investigator Awards** | **Scien­tific Session**  **Hepatobiliary: Neoplasm** | **Scien­tific Session**  **Multiple Sclerosis: Lesions Everywhere** | **Scien­tific Session**  **Breast** | | **Room N02** | **Room N03** | **Room N04** | **Room S03** | **Room S04** | **Room S06** | **Room W03/04** | | |
| ***BREAK 10:15 - 10:30*** | |
| |  |  |  |  | | --- | --- | --- | --- | | **PLENARY SESSION Plenary Hall (Paris Room), 10:30 - 12:15** | | | | | **10:30** |  | **ISMRM & ESMRMB Awards** |  | | [**Cardiovascular Imaging: From Structure to Function**](https://www.ismrm.org/18/program_files/P01.htm) **Organizers: James Carr, Jennifer Keegan, Sebastian Kozerke, Tim Leiner, Reza Nezafat, Winfried Willinek, Bernd Wintersperger** | | | | | **11:15** |  | **Tissue Characterization in the Human Heart** | **Raymond Y.K. Kwong, M.D.** | | **11:35** |  | **Current & Emerging Techniques for Evaluating Cardiac Function** | **Sergio Uribe Arancibia, Ph.D.** | | **11:55** |  | **Putting It All Together: What Is the Clinical Impact?** | **Marianna Fontana, Ph.D.** | | **12:15** |  | **Adjournment** | | | |
| ***LUNCH BREAK 12:15 - 13:45*** | |
| |  |  |  | | --- | --- | --- | |  | **Gold Corporate Symposium Philips Healthcare *(no CME credit)* Plenary Hall (Paris Room) 12:30 - 13:30** |  | | |
| **MONDAY • AFTERNOON SESSIONS 13:45 - 15:45** | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Power Pitch Session *(no CME credit)***  **Molecular & Metabolic Imaging**  **Power Pitch Theatre A Exhibition Hall** | **Power Pitch Session *(no CME credit)***  **MRI in Cancer Therapy and Diagnostics**  **Power Pitch Theatre B Exhibition Hall** | **Traditional Poster Session *(no CME credit)***  **Interventional; Safety**  **Exhibition Hall** | **Electronic Poster Sessions *(no CME credit)***  **Young Investigator Awards; Cardiovascular; Acquisition, Reconstruction & Analysis**  **Exhibition Hall** | **Study Group Business Meetings Room W07 *(no CME credit)*** | **Study Group Business Meetings Room W08 *(no CME credit)*** | | **High Field Systems & Applications 13:45-14:45** | **Hyperpolarization Methods & Equipment 13:45-14:45** | |  | **Hyperpolarized Media 14:45-15:45** |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Combined Educational & Scientific Session**  [**Applications of Microstructural Imaging in Disease**](https://www.ismrm.org/18/program_files/M06.htm) | **Educational Session**  [**Machine Learning in Cardiovascular Disease**](https://www.ismrm.org/18/program_files/M05.htm) | **Educational Session**  [**MRI Value in Body Imaging: Role for Abbreviated Protocols?**](https://www.ismrm.org/18/program_files/M07.htm) | **Member-Initiated Symposium *(no CME credit)***  **Non-Invasive Axon Diameter Mapping: So Fascinating, So Challenging & So Many Questions** | **Member-Initiated Symposium *(no CME credit)***  **Zooming into the "Little Brain": Advances in Cerebellar Imaging** | | **Room N01** | **Room N02** | **Room S01** | **Room S05** | **Room W05/06** |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Scien­tific Session**  **RF Arrays & Systems** | **Scien­tific Session**  **fMRI: Spatiotemporal Dynamics** | **Scien­tific Session**  **MRS/MRSI Reconstruction & Quantification** | **Scien­tific Session**  **Measuring & Correcting Imperfections** | **Scien­tific Session**  **Quantitative Neurovascular Imaging Methods** | **Scien­tific Session**  **Magnetic Susceptibility Imaging** | **Scien­tific Session**  **Loose Cartilage** | | **Room N03** | **Room N04** | **Room S02** | **Room S03** | **Room S04** | **Room S06** | **Room W03/04** | | |
| ***BREAK 15:45 - 16:15*** | |
| **MONDAY • EVENING SESSIONS 16:15 - 18:15** | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Power Pitch Session *(no CME credit)***  **Pulse Sequence Highlights**  **Power Pitch Theatre A Exhibition Hall** | **Power Pitch Session *(no CME credit)***  **Psychoradiology: A Potpourri**  **Power Pitch Theatre B Exhibition Hall** | **Traditional Poster Session *(no CME credit)***  **Cancer**  **Exhibition Hall** | **Electronic Poster Sessions *(no CME credit)***  **Neuro; Molecular Imaging**  **Exhibition Hall** | **Study Group Business Meetings Room W07 *(no CME credit)*** | **Study Group Business Meetings Room W08 *(no CME credit)*** | | **Cardiac MR 16:15-17:15** | **MR in Drug Research 16:15-17:15** | | **MR Flow & Motion Quantitation 17:15-18:15** | **Placenta & Fetus 17:15-18:15** |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Member-Initiated Symposium *(no CME credit)***  **Safety & Efficacy of Contrast Agents: State of the Art, Future Directions & Alternative Approaches** | **Member-Initiated Symposium *(no CME credit)***  **Neurophysiological Basis of Resting-State Functional Connectivity: Evidence from Rodents, Monkeys to Humans** | **Educational Session**  [**MR Physics & Techniques for Clinicians**](https://www.ismrm.org/18/program_files/M01.htm) | **Combined Educational & Scientific Session**  [**Liver Imaging: What Can We Really Quantify?**](https://www.ismrm.org/18/program_files/M08.htm) | **Educational Session**  [**Quantitative MRI in MSK: From Acquisition to Application**](https://www.ismrm.org/18/program_files/M09.htm) | | **Room N01** | **Room N02** | **Room S01** | **Room S02** | **Room W05/06** |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Scien­tific Session**  **Frontiers of Image Reconstruction** | **Scien­tific Session**  **Microstructure: A Stroll in the q-Space** | **Scien­tific Session**  **Parameter Quantification** | **Scien­tific Session**  **Hyperpolarisation: Probe Development & Clinical Application** | **Scien­tific Session**  **Myocardial Tissue Characterisation** | **Scien­tific Session**  **MR Safety: PNS & RF Heating** | **Scien­tific Session**  **Arterial Spin Labeling** | | **Room N03** | **Room N04** | **Room S03** | **Room S04** | **Room  S05** | **Room S06** | **Room W03/04** | | |
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| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **ESMRMB Business Meeting *(no CME credit)* 18:30-19:30 Room W03/W04** |  | **Special Session Manuscript Reviewing for ISMRM's Scientific Journals *(no CME credit)* 18:30-19:30 Room W05/W06** |  | | |
|  | |
| **TUESDAY • 19 June 2018** | **Registration Hours 06:30-18:00 Exhibition Hall 10:00-17:00 Traditional Poster Hall 07:00-20:30** |
| **TUESDAY • SUNRISE EDUCATIONAL SESSIONS 07:00 - 07:50** | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **Educational Session**  [**Tractography in the Operating Theatre**](https://www.ismrm.org/18/program_files/STu04.htm) | **Educational Session**  [**Go Faster in Clinical Imaging: Multiband Imaging**](https://www.ismrm.org/18/program_files/STu03.htm) | **Educational Session**  [**From Diagnosis to Assessing Therapy Response: Gynecological Malignancy**](https://www.ismrm.org/18/program_files/STu01.htm) | **Educational Session**  [**Advanced Techniques in Cardiovascular MR: Imaging Cardiac Microstructure & Physiology**](https://www.ismrm.org/18/program_files/STu02.htm) | **Educational Session**  [**Application of Molecular Imaging in Cardiac Vascular Diseases**](https://www.ismrm.org/18/program_files/STu05.htm) | **Educational Session**  [**Emerging Methods in MSK MRI: Cartilage**](https://www.ismrm.org/18/program_files/STu06.htm) | **Educational Session**  [**Your Brain on Drugs: Nicotine**](https://www.ismrm.org/18/program_files/STu07.htm) | **Educational Session**  [**Maker: B0**](https://www.ismrm.org/18/program_files/STu08.htm) | | **Room N03** | **Room N04** | **Room S01** | **Room S02** | **Room S03** | **Room S04** | **Room S05** | **Room S06** | | |
| ***BREAK 07:50 - 08:15*** | |
| **TUESDAY • MORNING SESSIONS 08:15 - 10:15** | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Power Pitch Session *(no CME credit)***  **Neuro Acquisition: Seeing the CNS Better**  **Power Pitch Theatre A Exhibition Hall** | **Power Pitch Session *(no CME credit)***  **Musculoskeletal Madness**  **Power Pitch Theatre B Exhibition Hall** | **Traditional Poster Session *(no CME credit)***  **Diffusion**  **Exhibition Hall** | **Electronic Poster Sessions *(no CME credit)***  **Cancer; MR Spectroscopy**  **Exhibition Hall** | **Study Group Business Meeting Room W07 *(no CME credit)*** | **Study Group Business Meeting Room W08 *(no CME credit)*** | |  |  | | **MR Elastography 09:15-10:15** | **Diffusion 09:15-10:15** |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Educational Session**  [**Imaging Metabolism in the Developing Brain**](https://www.ismrm.org/18/program_files/Tu02.htm) | **Combined Educational & Scientific Session**  [**Prostate Cancer: Current Gaps & Future Directions**](https://www.ismrm.org/18/program_files/Tu03.htm) | **Combined Educational & Scientific Session**  [**Studying the Value of MRI**](https://www.ismrm.org/18/program_files/W08.htm) | **Member-Initiated Symposium *(no CME credit)***  **Peripheral Nerve Stimulation: Have We Hit the Limits?** | **Member-Initiated Symposium *(no CME credit)***  **How to Make Perfusion Imaging Become a Quantitative Imaging Biomarker** | | **Room S01** | **Room S02** | **Room S03** | **Room S06** | **Room Room W03/04** |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Scien­tific Session**  **Cardiac Function & Myocardial Perfusion** | **Scien­tific Session**  **Application of Neurovascular Methods** | **Scien­tific Session**  **Signal Encoding & Decoding** | **Scien­tific Session**  **Resolving Layers & Columnar Activity** | **Scien­tific Session**  **Novel Contrast & Targeted Molecular Imaging** | **Scien­tific Session**  **Novel CEST Methods in Cancer & Beyond** | **Scien­tific Session**  **Parkinson's Disease** | | **Room N01** | **Room N02** | **Room N03** | **Room N04** | **Room S04** | **Room S05** | **Room W05/06** | | |
| ***BREAK 10:15 - 10:45*** | |
| |  |  |  |  | | --- | --- | --- | --- | | **PLENARY SESSION Plenary Hall (Paris Room), 10:45 - 12:15** | | | | | **10:45** |  | **NIBIB New Horizons Lecture When Fast Is Not Fast Enough: The Challenging Path Towards Pediatric MRI Without Anesthesia** | **Michael Lustig, Ph.D.** | | [**Challenging the Assumptions of MRI**](https://www.ismrm.org/18/program_files/P02.htm) **Organizers: Fernando Boada, Tim Leiner, Chunlei Liu, Stefan Maier, Dan Sodickson** | | | | | **11:15** |  | **Image Interpretation** | **Bram van Ginneken, Ph.D.** | | **11:30** |  | **Image Acquisition & Reconstruction** | **Mariya Doneva, Ph.D.** | | **11:45** |  | **Acquisition Systems** | **Maxim Zaitsev, Ph.D.** | | **12:00** |  | **Data Platforms & Architecture** | **Kai Tobias Block, Dr. Rer. Nat., Ph.D.** | | **12:15** |  | **Adjournment** | | | |
| ***LUNCH BREAK 12:15 - 13:45*** | |
| |  |  |  | | --- | --- | --- | |  | **Gold Corporate Symposium Siemens Healthineers *(no CME credit)* Plenary Hall (Paris Room) 12:30 - 13:30** |  | | |
| **TUESDAY • AFTERNOON SESSIONS 13:45 - 15:45** | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Power Pitch Session *(no CME credit)***  **Machine Learning Unleashed**  **Power Pitch Theatre A Exhibition Hall** | **Power Pitch Session *(no CME credit)***  **Hot Topics in MRS**  **Power Pitch Theatre B Exhibition Hall** | **Traditional Poster Session *(no CME credit)***  **Engineering**  **Exhibition Hall** | **Electronic Poster Sessions *(no CME credit)***  **Intervention; Safety; Acquisition, Reconstruction & Analysis**  **Exhibition Hall** | **Study Group Business Meetings Room W07 *(no CME credit)*** | **Study Group Business Meetings Room W08 *(no CME credit)*** | | **MR of Cancer 13:45-14:45** |  | | **White Matter 14:45-15:45** | **Electro-Magnetic Tissue Properties (SWI) 14:45-15:45** |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Educational Session**  [**Radiomics in MRI: Doing It Right**](https://www.ismrm.org/18/program_files/Tu04.htm) | **Educational Session**  [**Primer for Ultrahigh Field MRI**](https://www.ismrm.org/18/program_files/Tu06.htm) | **Member-Initiated Symposium *(no CME credit)***  **From Neurons to Networks: Opportunities & Challenges for Laminar fMRI** | **Combined Educational & Scientific Session**  [**Osteoarthritis: The (W)holy Grail**](https://www.ismrm.org/18/program_files/Tu05.htm) | **Member-Initiated Symposium *(no CME credit)***  **19F MRI Emerges from the Background** | | **Room N01** | **Room N02** | **Room N04** | **Room S01** | **Room W05/06** |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Scien­tific Session**  **Diffusion MRI: Signal Reconstruction & Representation** | **Scien­tific Session**  **Motion Correction: Beyond Gating** | **Scien­tific Session**  **Atherosclerosis & Vessel-Wall Imaging** | **Scien­tific Session**  **Perfusion & Permeability** | **Scien­tific Session**  **Traumatic Brain Injury** | **Scien­tific Session**  **Hepatobiliary: Diffuse Liver Disease: Part 1** | **Scien­tific Session**  **Normal Pediatric Brain Development** | | **Room N03** | **Room S02** | **Room S03** | **Room S04** | **Room S05** | **Room S06** | **Room W03/04** | | |
| ***BREAK 15:45 - 16:15*** | |
| **TUESDAY • EVENING SESSIONS 16:15 - 18:15** | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Power Pitch Session *(no CME credit)***  **Conductivity, Relocation, Water-Fat & Beyond**  **Power Pitch Theatre A Exhibition Hall** | **Power Pitch Session *(no CME credit)***  **Advances in Contrast: MT, CEST & Perfusion**  **Power Pitch Theatre B Exhibition Hall** | **Traditional Poster Session *(no CME credit)***  **Neuro**  **Exhibition Hall** | **Electronic Poster Sessions *(no CME credit)***  **Engineering; Body**  **Exhibition Hall** | **Study Group Business Meetings Room W07 *(no CME credit)*** | |  | | **Quantitative MRI 17:15-18:15** |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Member-Initiated Symposium *(no CME credit)***  **Advances in Quantitative Diffusion MRI Techniques & Their Potential Clinical Application to Both Healthy & Disease-Affected Populations** | **Educational Session**  [**MR Physics & Techniques for Clinicians**](https://www.ismrm.org/18/program_files/Tu01.htm) | **Combined Educational & Scientific Session**  [**Cardiovascular Imaging Biomarkers**](https://www.ismrm.org/18/program_files/Tu07.htm) | **Educational Session**  [**Hybrid MR Imaging in MSK**](https://www.ismrm.org/18/program_files/Tu08.htm) | **Member-Initiated Symposium *(no CME credit)***  **The Future of Cardiac MRI: Rapidly Addressing the Unmet Clinical Needs** | | **Room N04** | **Room S01** | **Room S02** | **Room S03** | **Room S05** |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Scien­tific Session**  **Deep Learning for Image Reconstruction** | **Scien­tific Session**  **Neuro at Ultra-High Field** | **Scien­tific Session**  **fMRI: Neurodevelopment & Clinical Applications** | **Scien­tific Session**  **MR-Guided Intervention (Not Thermo nor HIFU)** | **Scien­tific Session**  **Hepatobiliary: Diffuse Liver Disease: Part 2** | **Scien­tific Session**  **Human MRS/MRI at Ultra-High Field** | **Scien­tific Session**  **Tumour Microenvironment** | | **Room N01** | **Room N02** | **Room N03** | **Room S04** | **Room S06** | **Room W03/04** | **Room W05/06** | | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **Bronze Corporate Evening Symposium Bracco *(no CME credit)* Room S02** |  | **Bronze Corporate Evening Symposium Hitachi Medical Systems *(no CME credit)* Room W05/06** |  | | |
|  | |
| **WEDNESDAY • 20 June 2018** | **Registration Hours 06:30-18:00 Exhibition Hall 10:00-17:00 Traditional Poster Hall 07:00-20:30** |
| **WEDNESDAY • SUNRISE EDUCATIONAL SESSIONS 07:00 - 07:50** | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **Educational Session**  [**Diffusion Tensor Imaging Outside the Brain**](https://www.ismrm.org/18/program_files/SW04.htm) | **Educational Session**  [**Go Faster in Clinical Imaging: Fingerprinting**](https://www.ismrm.org/18/program_files/SW03.htm) | **Educational Session**  [**From Diagnosis to Assessing Therapy Response: Breast Cancer**](https://www.ismrm.org/18/program_files/SW01.htm) | **Educational Session**  [**Advanced Techniques in Cardiovascular MR: Tissue Perfusion**](https://www.ismrm.org/18/program_files/SW02.htm) | **Educational Session**  [**Application of Molecular Imaging in Neurodegenerative Diseases**](https://www.ismrm.org/18/program_files/SW05.htm) | **Educational Session**  [**Emerging Methods in MSK MRI: Bone**](https://www.ismrm.org/18/program_files/SW06.htm) | **Educational Session**  [**Your Brain on Drugs: Cannabis**](https://www.ismrm.org/18/program_files/SW07.htm) | **Educational Session**  [**Maker: Microcontroller**](https://www.ismrm.org/18/program_files/SW08.htm) | | **Room N03** | **Room N04** | **Room S01** | **Room S02** | **Room S03** | **Room S04** | **Room S05** | **Room S06** | | |
| ***BREAK 07:50 - 08:15*** | |
| **WEDNESDAY • MORNING SESSIONS 08:15 - 10:15** | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Power Pitch Session *(no CME credit)***  **Interventional & RF: Safety & Solutions**  **Power Pitch Theatre A Exhibition Hall** | **Power Pitch Session *(no CME credit)***  **Motion & Image Analysis Highlights**  **Power Pitch Theatre B Exhibition Hall** | **Traditional Poster Session *(no CME credit)***  **Contrast Mechanisms**  **Exhibition Hall** | **Electronic Poster Sessions *(no CME credit)***  **fMRI; Body**  **Exhibition Hall** | **Study Group Business Meetings Room W07 *(no CME credit)*** | | **PET/MR 08:15-09:15** | | **Reproducible Research 09:15-10:15** |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Member-Initiated Symposium *(no CME credit)***  **Magnetic Particle Imaging & Its Synergies with MRI Technology & Applications** | **Member-Initiated Symposium *(no CME credit)***  **Hot Topics in Breast MRI** | **Combined Educational & Scientific Session**  [**Spinal Cord MR**](https://www.ismrm.org/18/program_files/W03.htm) | **Educational Session**  [**Multinuclear Imaging & Spectroscopy: Methods & Applications**](https://www.ismrm.org/18/program_files/W04.htm) | **Educational Session**  [**Peripheral Nerve Imaging: Ryder Cup**](https://www.ismrm.org/18/program_files/W02.htm) | | **Room S01** | **Room W05/06** | **Room S02** | **Room S03** | **Room W03/04** |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Scien­tific Session**  **Advances in MR Fingerprinting** | **Scien­tific Session**  **Velocity & Flow** | **Scien­tific Session**  **Segmentation & Parcellation in the Brain** | **Scien­tific Session**  **Cutting Edge Acquisition Methods in fMRI** | **Scien­tific Session**  **Prostate** | **Scien­tific Session**  **MRI in Alzheimer's Disease** | **Scien­tific Session**  **Diffusion: Validation** | | **Room N01** | **Room N02** | **Room N03** | **Room N04** | **Room S04** | **Room S05** | **Room S06** | | |
| ***BREAK 10:15 - 10:45*** | |
| |  |  |  |  | | --- | --- | --- | --- | | **PLENARY SESSION Plenary Hall (Paris Room), 10:45 - 12:15** | | | | | **10:45** |  | **Presidential Lecture** |  | | [**Point-of-Care Diagnostics: MR's Friend or Foe?**](https://www.ismrm.org/18/program_files/P03.htm) **Organizers: Garry Gold, Catherine Hines, Kelvin Lim, Arvind Pathak** | | | | | **11:15** |  | **Competition: Point-of-Care (POC) Diagnostics** | **Nimmi Ramanujam, Ph.D.** | | **11:35** |  | **Cost: Novel MR- or NMR-Based POC Technology** | **Steven J. Schiff, M.D., Ph.D.** | | **11:55** |  | **Complement: Implementing MR into the POC Pipeline** | **Edwin J. van Beek, M.D., Ph.D., M.Ed., FRCR** | | **12:15** |  | **Adjournment** | | | |
| ***LUNCH BREAK 12:15 - 13:45*** | |
| |  |  |  | | --- | --- | --- | |  | **Gold Corporate Symposium GE Healthcare *(no CME credit)* Plenary Hall (Paris Room) 12:30 - 13:30** |  | | |
| **WEDNESDAY • AFTERNOON SESSIONS 13:45 - 15:45** | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Power Pitch Session *(no CME credit)***  **Applications of Diffusion MRI**  **Power Pitch Theatre A Exhibition Hall** | **Power Pitch Session *(no CME credit)***  **CV PowerBeat: Part 2**  **Power Pitch Theatre B Exhibition Hall** | **Traditional Poster Session *(no CME credit)***  **fMRI**  **Exhibition Hall** | **Electronic Poster Sessions *(no CME credit)***  **Neuro; Cardiovascular**  **Exhibition Hall** | **Study Group Business Meetings Room W07 *(no CME credit)*** | | **Detection & Correction of Motion in MRI & MRS 13:45-14:45** | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Combined Educational & Scientific Session**  [**Machine Learning for Magnetic Resonance in Medicine**](https://www.ismrm.org/18/program_files/W05.htm) | **Educational Session**  [**Junior Fellow Symposium: Finding Value in MRI**](https://www.ismrm.org/18/program_files/W07.htm) ***(no CME credit)*** | **Member-Initiated Symposium *(no CME credit)***  **Portable MRI Systems for Point-of-Care & Mobile Applications** | **Combined Educational & Scientific Session**  [**From Molecular Biomarker to Clinical Quantification**](https://www.ismrm.org/18/program_files/W06.htm) | **Member-Initiated Symposium *(no CME credit)***  **Breaking the Spatiotemporal Limits of MRSI** | | **Room N01** | **Room N02** | **Room N04** | **Room S01** | **Room W05/06** |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Scien­tific Session**  **Techniques for Myelin & Microstructure Imaging** | **Scien­tific Session**  **Quantitative Neuroimaging** | **Scien­tific Session**  **Imaging Response to Therapy** | **Scien­tific Session**  **It Takes a Muscle** | **Scien­tific Session**  **Pancreas/GI** | **Scien­tific Session**  **Field Management & Shimming** | **Scien­tific Session**  **Pediatric Neuropathology & Neurodevelopmental Disorders** | | **Room N03** | **Room S02** | **Room S03** | **Room S04** | **Room S05** | **Room S06** | **Room W03/04** | | |
| ***BREAK 15:45 - 16:15*** | |
| **WEDNESDAY • EVENING SESSIONS 16:15 - 18:15** | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Power Pitch Session *(no CME credit)***  **Techniques & Applications of Microcirculation Imaging**  **Power Pitch Theatre A Exhibition Hall** | **Power Pitch Session *(no CME credit)***  **fMRI: Signal Characteristics & Analysis**  **Power Pitch Theatre B Exhibition Hall** | **Traditional Poster Session *(no CME credit)***  **Body**  **Exhibition Hall** | **Electronic Poster Sessions *(no CME credit)***  **Musculoskeletal; Contrast Mechanisms**  **Exhibition Hall** | **Study Group Business Meetings Room W07 *(no CME credit)*** | | **Molecular & Cellular Imaging 16:15-17:15** | | **Perfusion 17:15-18:15** |  |  |  |  | | --- | --- | --- | | **Member-Initiated Symposium *(no CME credit)***  **RESONATE: Discussion on Scientific & Social Biases within ISMRM** | **Member-Initiated Symposium *(no CME credit)***  **Connectomes Related to Psychiatric Diseases** | **Educational Session**  [**MR Physics & Techniques for Clinicians**](https://www.ismrm.org/18/program_files/W01.htm) | | **Room N03** | **Room N04** | **Room S01** |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Scien­tific Session**  **Microstructure: Moving Through Time** | **Scien­tific Session**  **Machine Learning in Neuroimaging** | **Scien­tific Session**  **Non-Proton MRS/MRI** | **Scien­tific Session**  **Contrast-Enhanced & Non-Contrast-Enhanced MR Angiography** | **Scien­tific Session**  **Myelin Imaging: Applications** | **Scien­tific Session**  **Off the Cartesian Grid** | **Scien­tific Session**  **Novel MR & MR-Compatible Technology** | **Scien­tific Session**  **Brain Tumours: Pre-Treatment** | **Scien­tific Session**  **Imaging More Than the Boltzmann Distribution: Hyperpolarized Gas Imaging** | | **Room N01** | **Room N02** | **Room S02** | **Room S03** | **Room S04** | **Room S05** | **Room S06** | **Room W03/04** | **Room W05/06** | | |
| |  |  |  | | --- | --- | --- | |  | | | |  | **ISMRM Business Meeting *(no CME credit)* 18:30-19:30 Room W05/06** |  | |  | | | |  | **Women's Forum *(no CME credit)* 19:30-21:30 Room N03** |  | | |
|  | |
| **THURSDAY • 21 June 2018** | **Registration Hours 06:30-18:00 Exhibition Hall 10:00-16:30 Traditional Poster Hall 07:00-16:30   - Poster Dismantle 16:30-18:00 -** |
| **THURSDAY • SUNRISE EDUCATIONAL SESSIONS 07:00 - 07:50** | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **Educational Session**  [**Diffusion at Ultra-High Field**](https://www.ismrm.org/18/program_files/STh04.htm) | **Educational Session**  [**Go Faster in Clinical Imaging: Synthetic MR**](https://www.ismrm.org/18/program_files/STh03.htm) | **Educational Session**  [**Assessing Response in Liver Tumours: Primary & Metastatic**](https://www.ismrm.org/18/program_files/STh01.htm) | **Educational Session**  [**Advanced Techniques in Cardiovascular MR: Advanced Applications of Flow**](https://www.ismrm.org/18/program_files/STh02.htm) | **Educational Session**  [**Application of Molecular Imaging in Body**](https://www.ismrm.org/18/program_files/STh05.htm) | **Educational Session**  [**Emerging Methods in MSK MRI: Tendons, Ligaments, Menisci**](https://www.ismrm.org/18/program_files/STh06.htm) | **Educational Session**  [**Your Brain on Drugs: Other**](https://www.ismrm.org/18/program_files/STh07.htm) | **Educational Session**  [**Maker: Software**](https://www.ismrm.org/18/program_files/STh08.htm) | | **Room N03** | **Room N04** | **Room S01** | **Room S02** | **Room S03** | **Room S04** | **Room S05** | **Room S06** | | |
| ***BREAK 07:50 - 08:00*** | |
| **THURSDAY • MORNING SESSIONS 08:00 - 10:00** | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Power Pitch Session *(no CME credit)***  **Neurodegeneration**  **Power Pitch Theatre A Exhibition Hall** | **Power Pitch Session *(no CME credit)***  **Body: Power Potpourri**  **Power Pitch Theatre B Exhibition Hall** | **Traditional Poster Session *(no CME credit)***  **Acquisition, Reconstruction & Analysis; MR Value**  **Exhibition Hall** | **Electronic Poster Sessions *(no CME credit)***  **Neuro; Diffusion**  **Exhibition Hall** | **Study Group Business Meetings Room W07 *(no CME credit)*** | | **MR Engineering 08:00-09:00** | | **Pediatric MR 09:00-10:00** |  |  |  |  |  | | --- | --- | --- | --- | | **Educational Session**  [**What You Need to Know About Neuro­inflammation & the Glymphatic System**](https://www.ismrm.org/18/program_files/Th02.htm) | **Combined Educational & Scientific Session**  [**Does Motion Still Matter? New Methods for Handling Motion**](https://www.ismrm.org/18/program_files/Th03.htm) | **Member-Initiated Symposium *(no CME credit)***  **Recent Development of Preclinical PET/MR: From Hardware to Applications** | **Member-Initiated Symposium *(no CME credit)***  **MRI in Radiation Therapy** | | **Room N01** | **Room S01** | **Room S04** | **Room W03/04** |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **Scien­tific Session**  **Cutting-Edge Multimodal fMRI Techniques** | **Scien­tific Session**  **Approaches to Quantitative Mapping** | **Scien­tific Session**  **Diffusion MRI: Applications** | **Scien­tific Session**  **MSK: Harder, Better, Faster, Stronger** | **Scien­tific Session**  **CMR Innovations** | **Scien­tific Session**  **MRS/MRSI Acquisition** | **Scien­tific Session**  **Magnetic Resonance Elastography: Applications & Methods** | **Scien­tific Session**  **Thoracic MRI: Lung & Mediastinum** | | **Room N02** | **Room N03** | **Room N04** | **Room S02** | **Room S03** | **Room S05** | **Room S06** | **Room W05/06** | | |
| ***BREAK 10:00 - 10:15*** | |
| |  |  |  | | --- | --- | --- | | **PLENARY SESSION Plenary Hall (Paris Room), 10:15 - 11:45** | | | | [**High-End MRI: Added Value vs. Added Science**](https://www.ismrm.org/18/program_files/P04.htm) **Organizers: Jenny Bencardino, Anke Henning, Elena Kaye, Alex MacKay** | | | | **10:15** | **High-End MRI: Added Value** | **Siegfried Trattnig, M.D.** | | **10:35** | **High-End MRI: Added Science** | **Peter Jezzard, Ph.D.** | | **10:55** | **A Case Study: Interventional MRI** | **Clare Tempany-Afdhal, M.D.** | | **11:15** | **Special Session: Scientific Highlights of the Joint Annual Meeting ISMRM-ESMRMB** |  | | **11:45** | **Adjournment** | | | |
| ***LUNCH BREAK 11:45 - 13:15*** | |
| |  |  |  | | --- | --- | --- | |  | **Silver Corporate Symposium Canon Medical Systems Corporation *(no CME credit)* Plenary Hall (Paris Room) 12:00 - 13:00** |  | | |
| **THURSDAY • AFTERNOON SESSIONS 13:15 - 15:15** | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Power Pitch Session *(no CME credit)***  **Tissue Microstructure**  **Power Pitch Theatre A Exhibition Hall** | **Power Pitch Session *(no CME credit)***  **Preclinical fMRI: Neuroscience & Emerging Techniques**  **Power Pitch Theatre B Exhibition Hall** | **Traditional Poster Session *(no CME credit)***  **Molecular & Cardiovascular**  **Exhibition Hall** | **Electronic Poster Sessions *(no CME credit)***  **fMRI; Contrast Mechanisms**  **Exhibition Hall** | **Study Group Business Meetings Room W07 *(no CME credit)*** | |  | | **Musculoskeletal MR 14:00-15:00** |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Combined Educational & Scientific Session**  [**Brain Connectivity & Dynamics**](https://www.ismrm.org/18/program_files/Th05.htm) | **Educational Session**  [**Quantitative Imaging: How to Get Started**](https://www.ismrm.org/18/program_files/Th06.htm) | **Member-Initiated Symposium *(no CME credit)***  **From Ultrahigh- to Extreme-Field MR: Where Physics, Engineering, Physiology & Medicine Meet** | **Educational Session**  [**Lung Imaging**](https://www.ismrm.org/18/program_files/Th04.htm) | **Member-Initiated Symposium *(no CME credit)***  **Moving from Preclinical to Clinical Applications of Hyperpolarized MRI: Successes & Challenges** | | **Room N01** | **Room N02** | **Room N04** | **Room S01** | **Room W03/04** |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Scien­tific Session**  **RF Pulses & Sequences** | **Scien­tific Session**  **Neurofluids & Glymphatic System** | **Scien­tific Session**  **MRS Applications** | **Scien­tific Session**  **Predictive & Prognostic Cancer Imaging** | **Scien­tific Session**  **Motion Correction: Clear Your Head** | **Scien­tific Session**  **Body Imaging: Genitourinary Imaging (Non-Prostate)** | **Scien­tific Session**  **Thermometry & MR-HIFU** | | **Room N03** | **Room S02** | **Room S03** | **Room S04** | **Room S05** | **Room S06** | **Room W05/06** | | |
| ***BREAK 15:15 - 15:30*** | |
| **THURSDAY • EVENING SESSIONS 15:30 - 17:30** | |
| |  |  | | --- | --- | | **Traditional Poster Dismantle Period 16:30 - 18:00 *Take down your posters now before they are discarded!*** | **Study Group Business Meeting Room W07 *(no CME credit)*** | | **Current Issues in Brain Function 15:30-16:30** | | **MR Spectroscopy 16:30-17:30** |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Combined Educational & Scientific Session**  [**Faster Imaging, Faster Evaluation**](https://www.ismrm.org/18/program_files/Th07.htm) | **Educational Session**  [**MR Physics & Techniques for Clinicians**](https://www.ismrm.org/18/program_files/Th01.htm) | **Educational Session**  [**The MRI Artifacts Game Show**](https://www.ismrm.org/18/program_files/Th08.htm) | **Member-Initiated Symposium *(no CME credit)***  **Pre-Clinical Multi-Modality Imaging: Nuts & Bolts** | **Member-Initiated Symposium *(no CME credit)***  **Big Data, Annotations & Machine Learning for Neuro MR: A No-Brainer** | | **Room N01** | **Room S01** | **Room S02** | **Room W03/04** | **N04** |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Scien­tific Session**  **Diffusion MRI: Acquisition & Artifact Correction** | **Scien­tific Session**  **Brain Connectivity** | **Scien­tific Session**  **Cervical & Intracranial Flow** | **Scien­tific Session**  **Brain Tumours: Post-Treatment** | **Scien­tific Session**  **Little Bones** | **Scien­tific Session**  **Methods & Applications for PET/MR** | **Scien­tific Session**  **High-Risk, High-Reward Translations** | | **Room N02** | **Room N03** | **Room S03** | **Room S04** | **Room S05** | **Room S06** | **Room W05/06** | | |
| |  |  |  |  | | --- | --- | --- | --- | | **CLOSING SESSION Plenary Hall (Paris Room), 17:45 - 18:45** | | | | | **17:45** |  | **Young Investigator Awards Presentation** | **Karla L. Miller, Ph.D.** | | **17:50** |  | **Closing Remarks** | **Pia C. Maly Sundgren, M.D., Ph.D., 2018-2019 ISMRM President** | | **18:00** |  | **Lauterbur Lecture MRI in Yon Times of Yore** | **Gary H. Glover, Ph.D.** | | **18:45** |  | **Adjournment** | | | |
| |  |  | | --- | --- | |  | **Closing Party** | | |