

**IOIS Scientific Program
March 13-16, 2019
Houston, Texas**

Wednesday 3/13/19

10-11 IOIS Board meeting or working lunch

12pm **Welcome, Opening Remarks and Introduction to Practical Courses**

Practical Course: 6 stations, 5 rotations with 10 minute break between rotations

1:00-1:30 **Rotation 1: Intraoperative ultrasound**

G Unsgård, University of Trondheim, Norway; Francisco Prada, University of Virginia

1:40-2:10p **Rotation 2: Fluorescence 5ALA and Fluorescein**

Constantinos Hadjipanayis, Mt. Sinai, Jeff Bruce, Columbia

2:20-2:50p **Rotation 3: SRH**

Sandra Camelo-Piragua, Dan Orringer University of Michigan

3:00-3:30p **Rotation 4: LITT**

Eric Leuthardt, Washington University St. Louis; Veronica Chiang, Yale University

3:40-4:20p **Rotation 5: Use of tubular retractor Tractography and fMRI for presurgical planning/intraop functional imaging**

Mike Sughrue Oklahoma University; Mitesh Shah Indiana University

5-7p Welcome reception

Thursday 3/14/19

8:00-8:30A Presidential Address- Mike Chicoine, Opening Remarks

8:30-10:45A **Session 1 (moderated by Christopher Nimsky Univ Marburg, M Hadani Sheba Medical Center)
The application of intraoperative MRI to glioma surgery:**

Indications for use; pitfalls; utility of extent of resection

Jan Coburger, Klinikum Stuttgart, Germany

Atsushi Fuku, Japan POSSIBLE

Moritz Scherer, Universitätsklinikum Heidelberg

TBD- iMRI for high grade gliomas and/or insular gliomas

Sujit Prabhu, MD Anderson

Electrophysiologic monitoring in the iMRI setting

Constantin Roder Tübingen, Germany POSSIBLE

iMRI for gliomas of eloquent cortex

Marcos Malduan, Brazil

10min **abstract**

10min **abstract**

10min **abstract**

10:45-11:00A Break

11:00-11:30A **TOPIC: Image Guided Therapy Program at MDACC**
John Hazle, MD Anderson

11:30-11:40A Questions

12:00P-1:00P Lunch

1:00P-1:30P **TOPIC**
NASA Representative

2:00-2:15 Break

2:15-3:45 **Session 2 (Andreas Unterberg Univ Hiedelberg, Muragaki moderating)**
Advanced Imaging Modalities for Presurgical Planning

PET in glioma and meningioma surgery/ statistics
Jörg -Christian Tonn University of Munich

rsfMRI for presurgical mapping
Eric Leuthardt WUSTL

White matter tractography for neurosurgical planning
Lauren O'Donnell Harvard University

Solutions and challenges for using fMRI to plan neurosurgical procedures in eloquent locations)
Alex Golby , Harvard

Surgical planning for GBM in intraoperative MRI environment
Albert Kim, WUSTL

10 min **abstract**
10 min **abstract**

3:45-4:00 Break

4:00-5:15 **Session 3 (Marcus Maldaun, Zvi Cohen Moderating)**
Interpretation of studies evaluating intraoperative imaging techniques
Colin Watts, University of Birmingham
Chris Senft, Frankfurt
John Honeycutt, Cook Childrens

iMRI applications in kids
Zvi Cohen, Sheba Medical Center
Arya Nabavi, International Neuroscience Institute

10 min **Abstract**
10 min **Abstract**

Thursday Evening Dinner TBD, less formal

Friday 3/15/19

8:00-8:05AM **Opening remarks and Introduction of Keynote speaker**

8:05-8:45AM **Keynote Speaker: Optical techniques to improving outcomes in neurosurgery and the development of 5-ALA and future directions for 5-ALA and FGS**
Walter Stummer, Universität Münster

Dave Roberts – Dartmouth david.w.roberts@dartmouth.edu- 5-ALA

8:45-8:55AM Q&A with Keynote

8:55-9:05AM break

9:05-11:00 AM **Session 4 (Dan Orringer, Walter Stummer moderating)**
Fluorescence guided surgery and optical imaging techniques
Peter Nakaji, Barrow Neurological Institute St John's POSSIBLE
Sven Kantelhard, Johannes Gutenberg-Universität Mainz

FT-IR

Mattias Kirsch, Technische Universität Dresden
Ian Lee Henry Ford Health System

Stimulated Raman histology

Todd Hollon, University of Michigan

2HG spectroscopy

Randy Jensen University of Utah

Gadol fluorescein

Costas Hadjipanayis, Mount Sinai

10 min **Abstract**

10 min **Abstract**

10 min **Abstract**

10 min **Abstract**

10 min **Abstract**

11:00-11:15AM Break

11:15A-11:45 **Keynote: Mass Spectrometry for Cancer Diagnosis and Detection**
Livia Eberlin, liviase@utexas.edu Verbal acceptance

11:45-1200 **QA**

12:15-1:15P Lunch

1:15-3:15 **Session 5 (Moderators TBD)**
LITT: Pragmatic talk on clearpoint guided functional neurosurgery
Mike Schulder, Northwell
Veronica Chiang, Yale

Eric Leuthardt, Washington University School of Medicine in St. Louis
Ian Lee Henry Ford Health System
Claudio Anderson Cancer Center Tatsui, MD
Gene Barnett, Cleveland Clinic
Jessica Wilden, Washington University School of Medicine in St. Louis

10 min **abstract**
10 min **abstract**
10 min **abstract**
10 min **abstract**

3:15-3:25P Break

3:25-5:00P **Session 6 (Moderators TBD)**
Intraoperative ultrasound, Focused ultrasound (application in clinical practice) and Surgical Robotics
Julie Pilitsis, Albany Medical Center
Jeff Weinberg, MD Anderson Cancer Center
Rivka Colen, MD Anderson Cancer Center

Surgical robotics
Garnette Sutherland, Calgary

Surgical robotics/SCOT
Jun Okamoto, Tokyo Women's Medical University
Richard Bucholz, St. Louis University

iUS
Francesco Prada, Virginia
Matthew Smyth, Washington University St Louis
10 min **abstract**
10 min **abstract**
10 min **abstract**
10 min **abstract**

Gala Dinner Time and Location TBD

Day 4: Saturday 3/16/19

8:00-8:05 Opening remarks

8:05-10:00A **Session 7 (Moderators TBD)**
Neuro anesthesia in the iMRI environment:
Seryas Bhasvar, MD Anderson Cancer Center
Sergio Bergese, The Ohio State University

Anesthetic considerations for awake craniotomies in iMRI environment
Abe VanDer Spek, University of Michigan (Verbal acceptance)

DBS
Richard Bucholz
Paul Larson UCSF

10-10:15A Break

10:15-11:15 **Surgical VR concepts and/or open abstracts**
Speakers TBD

11:30 Award presentation for top resident/fellow abstract presentation
Adjourn