DAY 1: Friday Nov 3

700A – 715A  Welcome Address – Partha Thirimala, MD; R. Joshua Sunderlin, MS, CNIM

715A – 745A  Lecture: IONM Past, present, and future (Partha Thirimala, MD)

745A – 815A  Lecture: IONM Checklists (R. Joshua Sunderlin, MS, CNIM)

815A – 915A  Interactive Case Studies: SSEP and TcMEP fundamentals and troubleshooting (Andrew Moyer, CNIM)

915A – 930A  Break 15 min

930A – 1000A  Technical Overview: DRG-S placements utilizing dSSEPs, MEPs, EMG and EEG (Jessica Barley, PhD)

1000A – 1030A  Lecture: Lateral Transpsoas Procedures (Vincent Miele, MD)

1030A – 1100A  Lecture: Spinal cord stimulator (Nestor Tomycz, MD)

1100A – 1145A  Interactive Case Studies: IONM for stroke detection in Cardiovascular cases (Ibrahim Sultan, MD and Katherine Anetakis, MD)

1045A – 1145A  KEYNOTE DAY 1 – ACNS Speaker – Cost effectiveness in IONM (John Ney, MD)

1145A – 1230P  Lunch

1230P – 100P  Lecture: OUTSIDE THE BOX – Auditory Processing – (Barbara Shinn-Cunningham, PhD)

130P – 230P  Interactive Case Studies: TcMEP cases (Varun Shandal, MD, and Jonathan Drumheller, CNIM)

230P – 330P  Workshop: Cadaver lab – placing electrodes part 1 (Dreux Priore, MS, R.EEG T and Rachel Mihal, CNIM)

330P – 345P  Break 15min

345P – 515P  Workshop: Cadaver lab – placing electrodes part 2 (Dreux Priore, MS, R.EEG T and Rachel Mihal, CNIM)

515P  Adjournment Day 1

530P – 730P  Meet and Greet at Hotel
DAY 2: Saturday Nov 4

700A – 715A Welcome Address Day 2 – Katherine Anetakis; R. Joshua Sunderlin, MS, CNIM

715A – 800A Lecture: Anesthesia, Physiology, and IONM Cases (Brian Gierl, MD and Greg Adams, CNIM)

800A – 845A Interactive Case Studies: IONM for spine trauma (Jeremy Shaw, MD and Anthony Gossett, CNIM)

845A – 915A Lecture: IONM in Thailand (Titima Itthimathin, MD)

915A – 930A Break 15min

930A – 1000A Technical Overview: Radical Prostatectomy – Procedure overview and how to monitor (Justin Morris, CNIM?)

1000A – 1100A Interactive Case Studies: Neuroendovascular Procedures (Michael Lang, MD and Jeffrey Balzer, PhD)

1100A – 1200P KEYNOTE DAY 2 – ASNM Speaker: Quality Control in IONM (Michelle Mora, DO)

1200P – 1245P Lunch

1245P – 130P Lecture: Skull Base Surgery & IONM (Georgios Zenonos, MD)

130P – 230P Interactive Case Studies: Neuro-oncological procedures (Pascal Zinn, MD, and Shane Gordon, CNIM)

230P – 300P Lecture: Neuromonitoring in India (Parthiban Velayutham, PhD)

300P – 330P Lecture: Role of Clinical Neurophysiology in the ICU (Jonathan Elmer, MD)

330P – 345P Break 15min

345P – 445P Interactive Case Studies: Skull base procedures (Partha Thirumala, MD, and R. Joshua Sunderlin, MS, CNIM)

445P – 515P Lecture: Medicolegal must-knows for IONM providers (Jeffrey Balzer, PhD)

5:15P Adjournment Day 2 (Course adjournment)
Faculty:

Greg Adams, CNIM - Procirca Center for Clinical Neurophysiology
Katherine Anetakis, MD – University of Pittsburgh Department of Neurological Surgery
Jeffrey Balzer, PhD – University of Pittsburgh Department of Neurological Surgery
Jessica Barley, PhD – Medical University of South Carolina
Jonathan Drumheller, CNIM - Procirca Center for Clinical Neurophysiology
Jonathan Elmer, MD – University of Pittsburgh Department of Critical Care Medicine
Brian Gierl, MD - University of Pittsburgh Department of Anesthesia
Shane Gordon, CNIM - Procirca Center for Clinical Neurophysiology
Anthony Gossett, CNIM – Procirca Center for Clinical Neurophysiology
Titima Itthimathin, MD – Bangkok Hospital Department of Neurological Surgery, Thailand
Michael Lang, MD – University of Pittsburgh Department of Neurological Surgery
Vincent Miele, MD – University of Pittsburgh Department of Neurological Surgery
Rachel Mihal, CNIM – Procirca Center for Clinical Neurophysiology
Michelle Mora, DO – Real Time Neuromonitoring Associates
Justin Morris, CNIM – The Neuromonitoring Group
Andrew Moyer, CNIM – Director, Neurological Services for Procirca Center for Clinical Neurophysiology
John Ney, MD – Boston University Department of Neurology and Veterans Affairs VISN 1
Dreux Priore, MS, R.EEG T - Procirca Center for Clinical Neurophysiology
Varun Shandal, MD - University of Pittsburgh Department of Neurological Surgery
Jeremy Shaw, MD – University of Pittsburgh Department of Orthopedic Surgery
Barbara Shinn-Cunningham, PhD – Carnegie Mellon University Department of Biomedical Engineering
Ibrahim Sultan, MD – University of Pittsburgh Department of Cardiovascular Surgery
R. Joshua Sunderlin, MS, CNIM – Director of Education for Procirca Center for Clinical Neurophysiology
Partha Thirumala, MD - University of Pittsburgh Department of Neurological Surgery
Nestor Tomycz, MD – Allegheny General Hospital Neurosurgery & Drexel University
Parthiban Velayutham, PhD – TATA Memorial Hospital, Tamil Nadu, India
Georgios Zenonos, MD - University of Pittsburgh Department of Neurological Surgery
Pascal Zinn, MD - University of Pittsburgh Department of Neurological Surgery