Basic Course

Monday
8:00 - 8:15 Welcome and Announcements
8:15 - 10:00 Neuroanatomy, Neurophysiology and Blood Supply
10:00 - 10:30 Break
10:30 - 12:00 Neuroanatomy, Neurophysiology and Blood Supply (continued)
12:00 - 1:00 Break for Lunch
1:00 - 2:30 Instrumentation Review - All of the fun stuff: filters, differential amplifiers, AD Conversion, etc
2:30 - 3:00 Break
3:00 - 4:15 Somatosensory Evoked Potentials: Pathways, Generators, Waveforms, Change Criteria, Signal Optimization, etc
4:15 - 5:00 Somatosensory Evoked Potential Change Exercise

Tuesday
8:00 - 8:15 Announcements
8:15 - 10:30 Transcranial Motor Evoked Potentials: Anatomy, Anesthesia, Alarm Criteria, Signal Optimization, etc
10:30 - 11:00 Break
11:00 - 12:00 Electromyography for Spinal Procedures: Anatomy, Theory and Alarm Criteria, Pedicle Screw Monitoring, Train of Four Assessment, etc
12:00 - 1:00 Break for Lunch
1:00 - 2:00 Electromyography for Spinal Procedures (continued)
2:00 - 3:00 Troubleshooting and Signal Optimization
3:00 - 3:30 Break
3:30 - 5:00 Spinal Monitoring: Procedures, Structures at Risk, Monitoring Strategy, Things to Think About, etc

Advanced Course

Wednesday
8:00 - 8:15 Welcome and Announcements
8:15 - 10:15 Brainstem Auditory Evoked Potentials: Anatomy, Monitoring Strategy and Structures at Risk, Alarm Criteria, Surgical Procedures, etc
10:30 - 11:00 Break
10:45 - 12:00 Motor Cranial Nerves: Anatomy and Structures at Risk
12:00 - 1:00 Break for Lunch
1:00 - 2:30 Monitoring Motor Cranial Nerves During Extracranial Procedures: Surgical Procedures, Structures at Risk, Things to Think About, Anesthesia, Train of Four Assessment, Alarm Criteria, etc
2:30 - 3:00 Break
3:00 - 4:30 Monitoring Motor Cranial Nerves During Intracranial Procedures: Surgical Procedures, Structures at Risk, Things to Think About, Anesthesia, Train of Four Assessment, Alarm Criteria, etc
4:30 - 5:00 Special Cranial Nerve Monitoring Techniques

Thursday
8:00 - 8:15 Announcements
8:15 - 10:15 Advanced Spinal Monitoring Techniques: Tethered Cord and Cauda Equina Monitoring
10:30 - 10:45 Break
10:45 - 12:00 Advanced Spinal Monitoring Techniques: D-waves, H-reflex and Bulbocavernosa Reflex
12:00 - 1:00 Break for Lunch
1:00 - 2:45 Monitoring Techniques for Far Lateral Lumbar Surgery
2:45 - 3:15 Break
3:15 - 5:00 Pedicle Screw Monitoring Techniques for Cervical and Thoracic Procedures

Friday
8:00 - 8:15 Announcements
8:15 - 10:00 Paediatric Monitoring Techniques: Signal Optimization, Monitoring Strategies, Things to Think about, etc
10:00 - 10:30 Break
10:30 - 12:00 Vascular Anomalies
12:00 - 1:00 Break for Lunch
1:00 - 3:00 Cortical and Subcortical Mapping and Monitoring Techniques: Review of The Tried and True and Evaluation of the New (Bipolar and Monopolar Mapping Techniques for Motor and Language Mapping, Monitoring Techniques, and Broca's Mapping Under General Anesthesia)
3:00 - 3:30 Break
3:30 - 4:30 Trust Us!: This lecture will be a surprise to all attendees. Download link to handouts to be provided at the time of the lecture.)
4:30 - 5:00 Question and Answer Session