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<th>Course Information</th>
<th>Course 1.1a: #143</th>
<th>Course 1.1b: #116</th>
<th>Course 1.1c: #58</th>
<th>Course 1.1d: #147</th>
<th>Course 1.1e: Presented by the Brain Stimulation SIG</th>
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<tr>
<td>8:00-10:00</td>
<td>EEG in Infancy—Boot Camp</td>
<td>Neuromuscular Aspects of Tropical Diseases</td>
<td>Electrophysiological Evaluation of Plexopathies</td>
<td>Intraoperative Motor Evoked Potential Monitoring: Challenges and Modern Concept</td>
<td>Session 1: Entrainment of Oscillatory Activity Within Large-Scale Neuronal Networks by Frequency-Modulated Neuromodulation and Memory</td>
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<td>Course Information</td>
<td>Course 1.2a: #142</td>
<td>Course 1.2b: #122</td>
<td>Course 1.2c: #166</td>
<td>Course 1.2d: #76</td>
<td>Session 2: Overview of QPS: Past, Present and Future</td>
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<tr>
<td>10:00-12:00</td>
<td>EEG Monitoring in Critically Ill Neonates and Children</td>
<td>Electrophysiological Findings in Myelopathies of Various Etiologies, Especially in Patients with HTLV-1 Associated Myelopathy (HAM/TSP)</td>
<td>How to Record, Analyze and Interpret Wide-Band EEG: Scalp and Invasive EEG in Epilepsy</td>
<td>Intraoperative Monitoring of Spinal Surgery</td>
<td>Session 3: Guideline for TUS (Transcranial Ultrasound Stimulation)</td>
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<td>12:00-11:00</td>
<td>Break</td>
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<td>Course Information</td>
<td>Course 1.3a: #148</td>
<td>Course 1.3b: #118</td>
<td>Course 1.3c: #27</td>
<td>Course 1.3d: #138</td>
<td>Course 1.3e: #97</td>
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<td>1:00 -3:00</td>
<td>Visual Electrophysiology in Children</td>
<td>Hands-On Teaching Course on Axonal Excitability Studies and MScanFit MUNE</td>
<td>Clinical Neurophysiology for Diagnosis of Movement Disorders</td>
<td>Latest Developments in IONM Evidence, Methodological Recommendations, and Artificial Intelligence “Big Data” Digital Networks</td>
<td>Modulating Deep Brain Structures with Temporal Interference Brain Stimulation</td>
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<td>Course Information</td>
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<td>Course 1.4d: #105</td>
<td>Course 1.4e: #86</td>
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<td>3:00-5:00</td>
<td>The Practice of Paediatric Electromyography</td>
<td>Hands-On Teaching Course on Muscle Excitability Testing</td>
<td>Advanced EEG Biomarkers in Patients with Dementia with Lewy Bodies</td>
<td>Selective Dorsal Rhizotomy: Making the Cut</td>
<td>Mathematical Tools in Neurophysiological Trials: Benefits and Risks</td>
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**Educational / scientific tracks**

- EEG and MEG
- brain stimulation
- electrodiagnostic testing
- peripheral neurophysiology
- brainstem neurophysiology
- intraoperative neuromonitoring
- pediatric neurophysiology
- intensive care neurophysiology
- other topics
MONDAY, SEPTEMBER 5: EDUCATIONAL COURSES

8:00-10:00
Course Information: Neurophysiologic Competency Certification Module for Ancillary Test Reporting in Determination of Death by Neurologic Criteria
Course Information: Session of the Education SIG - Co-Chairs: Jonathan Cole; Nortina Shahrizaila
Course Information: Course 2.1a: #121
Course Information: Course 2.1b: #115
Course Information: Course 2.1c: #115
Course Information: Course 2.1d: Advanced EEG/MEG Techniques SIG
Course Information: Course 2.1e: Presented by the Brainstem SIG
Course Information: Course 2.1f: Brain Stimulation for Dummies: Part 1

10:00-12:00
Course Information: Course 2.2a: #71
Course Information: Course 2.2b: #33
Course Information: Course 2.2c: #37
Course Information: Course 2.2d: Advanced EEG/MEG Techniques SIG
Course Information: Course 2.2e: #37
Course Information: Course 2.2f: EEG/MEG Source Reconstruction
Course Information: Break

1:00 -3:00
Course Information: Course 2.3a: #119
Course Information: Course 2.3b: #117
Course Information: Course 2.3c: Presented by International Society of Neuromuscular Imaging (ISNI)
Course Information: Course 2.3d: Advanced EEG/MEG Techniques SIG
Course Information: Course 2.3e: #56
Course Information: Course 2.3f: Brain Stimulation for Dummies: Part 2
Course Information: Break

3:00-5:00
Course Information: Course 2.4a: #111
Course Information: Course 2.4b: #111
Course Information: Course 2.4d: #5
Course Information: Course 2.4e: #151
Course Information: Course 2.4f: #111
Course Information: Course 2.4g: #111
Course Information: Course 2.4h: #111
Course Information: Course 2.4i: #111
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Course Information: Course 2.4YYY: #111
Course Information: Course 2.4ZZZ: #111
Course Information: Course 2.4AAA: #111
Course Information: Welcome Ceremony & Reception

Welcome Talks
Wolfgang Oertel; Hertie Foundation, Philipps Universität of Marburg, Germany
European Research Perspectives in Neuroscience

Stephanie Lacour; Wyss-Center, Switzerland
Revisiting Surface Electrode Implants for the Brain

Educational / scientific tracks
- EEG and MEG
- brain stimulation
- peripheral neurophysiology
- intraoperative neuromonitoring
- pediatric neurophysiology
- intensive care neurophysiology
- brainstem neurophysiology
- other topics
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<tr>
<th>Time</th>
<th>Session Information</th>
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<tr>
<td>8:00-9:30</td>
<td>Session 3.1a: DICOM WG32 Neurophysiology Format Standardization in DICOM</td>
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<td>Session 3.1b: #11 Biomarkers in Epilepsy: The Renaissance of an Old Method</td>
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<td>Session 3.1c: #293bs Deep Brain Stimulation for Central Post-Stroke Pain: Quo Vadis?</td>
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<td>Session 3.1d: #4 Neurophysiological Foundations of Transcranial Ultrasonic Stimulation (TUS) in Humans</td>
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<td>Session 3.1e: #87 Connecting to the Networks of the Human Brain by EEG-Guided Closed Loop TMS</td>
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<td>Session 3.1f: #274bs Towards Optimized TMS Targeting Approaches</td>
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<td>9:30-10:00</td>
<td>Break</td>
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<tr>
<td>10:00-11:00</td>
<td>IFCN Award for Basic Science of Clinical Neurophysiology</td>
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<td>Paolo Rossi</td>
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<td>75 Years of the IFCN: Past Accomplishments, Future Chances</td>
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<td>11:00-12:00</td>
<td>Lunch and Posters</td>
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<td>12:00-1:30</td>
<td>Session 3.2b: #32 There is Much More in the EEG than Spikes and Seizures</td>
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<td>Session 3.2c: #50 Update on Methods for Assessment of Cortical Engagement in Pain Processing</td>
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<td>Session 3.2d: #148bs Basic and Clinical Applications of Transcranial Focused Ultrasound for Neuromodulation</td>
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<td>Session 3.2e: #140 TMS-EEG to Better Characterize and Predict the Course of Neurological Disorders</td>
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<td>Session 3.2f: #47 New Frameworks for Studying Cortical Connectivity and Activation</td>
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<td>Session 3.2g: #6 TMS Over the Cerebellum: Cerebellar Inhibition of the Motor Cortex (CBI)</td>
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<td>1:30-3:00</td>
<td>Session 3.3a: #17 Translational Computational Modelling Relates AD Pathophysiology to Large-Scale Brain Dynamics</td>
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<td>Session 3.3b: #26 Silent Epilepsy in Alzheimer's Disease?</td>
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<td>Session 3.3c: #92 New Insights on Human Models and Neurophysiological Biomarkers of Central Sensitization</td>
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<td>Session 3.3d: #85bs Human Ultrasound Neuromodulation - State of the Art</td>
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<td>Session 3.3e: #133 Theoretic Foundations and New Strategies to Promote Visuo-Attentional Restoration in Stroke</td>
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<td>Session 3.3f: #88bs Novel Non-Invasive Brain Stimulation Approaches to Probe the Functional Brain Networks and Abnormal Connectivity in Movement Disorders</td>
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<td>3:15-4:45</td>
<td>Session 3.3g: #268bs Targets of Non-Invasive Brain Stimulation: Neurons and More</td>
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<td>4:45-5:00</td>
<td>Break</td>
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<td>5:00-6:00</td>
<td>Adrian Lecture in Clinical and Human Neurophysiology</td>
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<td>Hugh Bostock; UCL Queen Square Institute of Neurology; London, United Kingdom</td>
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<td>A Physiologist's Incursions into Clinical Neurophysiology</td>
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<td>6:00-8:00</td>
<td>IFCN General Assembly</td>
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Educational / scientific tracks

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<tr>
<td>EEG and MEG</td>
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<td>brain stimulation</td>
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<td>peripheral neurophysiology</td>
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<td>intraoperative neuromonitoring</td>
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<td>pediatric neurophysiology</td>
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<td>intensive care neurophysiology</td>
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<td>brainstem neurophysiology</td>
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<td>other topics</td>
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| 8:00-9:30  | **Session 4.1a:** #79 Advances in Understanding Physiological Mechanisms and Clinical Use of Prepulse Inhibition  
**Session 4.1b:** #131 Automating Clinical Neurophysiology For Seizure Forecasting and Outcome Prediction  
**Session 4.1c:** #165 The Importance of Neurophysiological Assessment in Acute and Long-Term COVID-19  
**Session 4.1d:** #83 Tracking Plasticity: Sensomotor Neurophysiology in Health and Disease  
**Session 4.1e:** #19 Mastering Semi-Quantitative Motor Unit Potential Analysis  
**Session 4.1f:** #166  
**Session 4.1g:** #190  |
| 9:30-10:00 | Break  |
| 10:00-12:00| **Plenary Lecture:** Joint IFCN / EAN Session: Advances in Neurophysiological Testing, Diagnosis and Therapy of Sleep Disorders  
**Co-Chairs:** Jonathan Cole; Claudio L. Bassetti  
**Speakers:** Pierre-Hervé Luppi; Sleep-Wake Neurophysiology  
Claudio L. Bassetti; Narcolepsy and its Borderland  
Ambra Stefani; Clinical Neurophysiology of REM Parasomnias  |
| 12:00-1:30 | Lunch and Posters  |
| 1:30-3:00  | **Session 4.2a:** #114 EEG-Biomarkers in Neuropsychiatry: Use for Treatment Stratification  
**Session 4.2b:** #91 Biomarkers in Ultra Long-Term EEG Monitoring  
**Session 4.2c:** #135 Source Imaging and Multimodal Integration in Focal Epilepsy  
**Session 4.2d:** #112 ISIN Update- Intraoperative Mapping and Monitoring Techniques of the Exposed Spinal Cord to Gain More Insights into Spinal Cord Physiology  
**Session 4.2e:** #253bs Optimizing Navigated TMS-EEG in Basic and Clinical Research  
**Session 4.2f:** #72 Aging and Cognitive Decline: Physiological Biomarkers and Transcranial Stimulation  
**Session 4.2g:** #280bs Concurrent TMS-fMRI for Network Mapping and Proof of Neural Target Engagement  |
| 3:00-3:15  | Break  |
| 3:15-4:45  | **Session 4.3a:** #53 The Application of Electrophysiological Measures as Biomarkers of Disease Progression and Outcome in Psychoses  
**Session 4.3b:** #55 Signal Analysis for Ultra-Long Term EEG Monitoring in Epilepsy  
**Session 4.3c:** #109 Advances in EEG/MEG Source Estimation and Imaging  
**Session 4.3d:** #150 Intraoperative Neurophysiological Guidance During Brainstem Surgery- How IOM May Increase Safety in High-Risk Surgeries  
**Session 4.3e:** #122bs Recent Methodological Advances in the Use of TMS-EEG and EEG-TMS for Research and Treatment  
**Session 4.3f:** #38bs Non-Invasive Brain Stimulation in Higher Age: From Modeling, and Physiology to Functional Application  
**Session 4.3g:** #21 Neurodynamics Exploration for Neuromodulation Tuning Against Chronic Fatigue  |
| 4:45-5:00  | Break  |
| 5:00-6:00  | Gala Reception  |
| 7:30-10:00 | Educational / scientific tracks  
- EEG and MEG  
- brain stimulation  
- intraoperative neuromonitoring  
- intensive care neurophysiology  
- peripheral neurophysiology  
- pediatric neurophysiology  
- brainstem neurophysiology  
- other topics  |

**Wednesday, September 7: Scientific Symposia**
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<th>Session Information</th>
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<tr>
<td>8:00-9:30</td>
<td>Session 5.1a: #85 EEG in the ICU: a Critical Update</td>
<td>High Frequency Oscillations in Epilepsy: New Options for Diagnosis and Therapy Monitoring</td>
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<td>Session 5.1c: #93</td>
<td>Quantitative Clinical Neurophysiology of Sleep in Neurological Disorders</td>
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<td>Session 5.1d: #98</td>
<td>Non-invasive Brain and Spinal Stimulation (NIBSS) Strategies for Diagnosis and Treatment of Amyotrophic Lateral Sclerosis (ALS)</td>
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<td>Session 5.1e: #101bs</td>
<td>Non-Invasive Brain Stimulation for Epilepsy: Where Do We Stand?</td>
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<td>Session 5.1f #236bs</td>
<td>Combining Invasive and Non-Invasive Brain Stimulation to Elucidate Mechanisms of Human Brain Plasticity and Develop Novel Brain Stimulation Treatments</td>
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<td>9:30-11:00</td>
<td>Session 5.2a: #45 Acute Symptomatic Seizures and the Ictal-Interictal Continuum: Definitions, Acute Management and Long-Term Outcomes</td>
<td>New Insights Sleep Neurophysiology Provides About Bidirectional Effects of Sleep on Focal-Onset Epilepsies in Adults</td>
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<td>Session 5.2b: #16</td>
<td>Towards Clinical Applications of Transcranial Static Magnetic Field Stimulation: From Mechanisms to Diseases</td>
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<td>Session 5.2c: #81</td>
<td>New Horizons in Neuromodulation in Refractory Epilepsy</td>
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<td>Session 5.2d: #145</td>
<td>Transcranial Direct Current Stimulation in the Pediatric Population</td>
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<td>11:15-12:45</td>
<td>Session 5.3a: #48 Neurophysiology and Neuroimaging After Cardiac Arrest in the Era of Targeted Temperature Management</td>
<td>Small Fibre Neuropathy: Clinical Picture, Pathophysiology and Treatment</td>
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<td>Session 5.3b: #106</td>
<td>The Connection of Cortical-Subcortical Nucleus: Another Aspect of the Epileptic Network in Patients with Focal Epilepsy</td>
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<td>Quantitative Neuroimaging of Public Health Problems: Examples from Latin America</td>
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<td>Physiological and Pathological Oscillations in the Human Motor System</td>
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<td>Session 5.3e: #86bs</td>
<td>Novel Applications of Non-Invasive Brain Stimulation for Assessing and Treating Epilepsy in Children</td>
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<td>Session 5.3f: #102</td>
<td>Pharmaco-TMS-EEG and Pharmaco-EEG</td>
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<td>2:25-3:45</td>
<td>Session 5.4a: #95 Perfusion-Optimization Responding Syndrome: From Clinical to Electroencephalographic Definition of an Individualized Ischemic Threshold in Ischemic Stroke and Subarachnoid Hemorrhage</td>
<td>EEG Biomarkers Across CNS Diseases – More than &quot;Just Spikes&quot;</td>
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<td>Session 5.4b: #123</td>
<td>EEG on the Cloud</td>
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<td>Cranial Nerve Disorders and the Brainstem</td>
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<td>Session 5.4d: #124</td>
<td>New Therapeutic Outcomes of Neuromodulation in Epilepsy: Vagusnerve Stimulation, Thalamic Stimulation and Focal Cortex Stimulation</td>
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<td>Session 5.4e: #80</td>
<td>Multimodal Investigations of Cortical Excitability and Plasticity as Biomarkers for Multiple Sclerosis</td>
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