Preliminary Program

Register by July 15 to Save

www.worldsleepcongress.com
World Association of Sleep Medicine (WASM) and World Sleep Federation (WSF) have founded World Sleep Society, representing both individual sleep professionals and sleep societies. Members receive a discount on World Sleep 2017 registration. Become a member today on worldsleepsociety.org/membership/join.

The fundamental mission of the World Sleep Society is to advance sleep health worldwide. World Sleep Society will fulfill this mission by promoting and encouraging education, research and patient care throughout the World, particularly in those parts of the world where the practice of sleep medicine is less developed. World Sleep Society will act as a bridge between different sleep societies and cultures, supporting and encouraging worldwide exchange of clinical information and scientific studies related to sleep medicine. World Sleep Society will seek to encourage development and exchange of information for world-wide and regional standards of practice for sleep medicine.

Officers
Clete Kushida, President (United States)
Charles Morin, President-Elect (Canada)
Yuichi Inoue, Secretary (Japan)
Thomas Penzel, Treasurer (Germany)

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Shahira Loza (Egypt)
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Dalva Poyares (Brazil)
Maree Barnes (Australia)
Hrudananada Mallick (India)
Kimberly Cote (Canada)
Walter McNicholas (Ireland)
Kathryn Reid (United States)
The 2017 program is the most extensive ever, including 16 keynotes, 102 symposia, 16 courses, and 138 oral abstract presentations. Based on the submissions of scientific content, we are expecting between 2,000 to 2,500 attendees, higher than prior congresses.
General Information

World Sleep Society
3270 19th Street NW • Suite 109
Rochester, MN 55901
Ph: (507) 316-0084
Fax: 001-612-465-5357
www.worldsleepcongress.com

Hotels
The Corinthia Hotel
Kongresová 1
Prague 4, 140 69
Czech Republic

Holiday Inn Prague Congress Centre
1684-1615 Pankrác
Prague 140 00
Czech Republic

Meeting Location
Prague Congress Centre
5. kvetna 65
140 21 Prague 4
Czech Republic

Opening Ceremony Location
Municipal House
nám. Republiky 5
111 21 Praha 1-Staré Město
Czech Republic

Closing Ceremony Location
Prague Congress Centre
5. kvetna 65
140 21 Prague 4
Czech Republic

Registration Questions
www.worldsleepcongress.com/attendees/register/registration-help

Hotels & Lodging
www.worldsleepcongress.com/prague/hotel

Group Block Housing Requests
Melissa Robertson,
Administrative Assistant
info@worldsleepsociety.org

Course, Symposia and Abstract Questions
Angie Granum,
Program Coordinator
granum@worldsleepsociety.org

CME Questions
Angie Granum,
Program Coordinator
granum@worldsleepsociety.org

Press and Public Relations
Gina Dewink,
Communications Coordinator
dewink@worldsleepsociety.org

Exhibit Hall Questions
Melissa Robertson,
Administrative Assistant
info@worldsleepsociety.org

Continuing Medical Education (CME)
This activity will be planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME).

Exhibitor and Sponsorship Questions
Allan O’Bryan,
Executive Director
obryan@worldsleepsociety.org

www.worldsleepcongress.com
October 7-11, 2017
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Richard Allen, PhD
Past-President, WASM (USA)

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Membership Chair, WSF (United Kingdom)

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Vice President, CSRSMS (Czech Republic)

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Executive Director, WASM/WSS (USA)

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Psychiatry and Behavioral Sciences, Stanford Center for Sleep Sciences and Medicine (USA)

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Biologist, Sleep Research and Chronobiology
Department of Pharmacology and Toxicology,
University of Zurich (Switzerland)

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Shelley Weiss (Canada)
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Juliane Winkelmann (Germany)

Local Organizing Committee
Chair: Ondrej Ludka
(Czech Republic)
Jitka Buskova (Czech Republic)
David Kemlink (Czech Republic)
Sona Nevšímalová
(Czech Republic)
Karel Sonka (Czech Republic)

2017 Congress Courses Committee
Co-chair: Alon Avidan (USA)
Co-chair: Karel Sonka
(Czech Republic)
Co-chair: Robert Thomas (USA)

2017 Congress Technologist Committee
Co-chair: Sharon Keenan (USA)
Co-chair: Ondrej Ludka
(Czech Republic)
Michael Eden (Canada)
Maxime Elbaz (France)
Lizzie Hill (UK)
Colette Navin (UK)

www.worldsleepcongress.com
October 7-11, 2017

Preliminary Scientific Program. All content is subject to change.
World Sleep 2017 Opening Ceremony

Sunday, October 8, 2017 • 6:00pm - 10:00pm

The Opening Ceremony of World Sleep 2017 will take place in the beautiful Municipal House located in the heart of Prague. This Art Nouveau treasure dominates the site of the former Royal Court. The ceremony will feature award presentations and classic Czech music played by a 65-piece orchestra. We expect over 1,000 delegates to attend this historic opening ceremony of the first joint congress of World Association of Sleep Medicine (WASM) and World Sleep Federation (WSF).

Agenda

6:00pm – 7:30pm    Reception
7:30pm – 8:00pm    Remarks from Program Committee & Awards
8:00pm – 9:00pm    Orchestra performance
9:00pm – 10:00pm   Networking

Municipal House >>
nám. Republiky 5
111 21 Praha 1-Staré Město
Czech Republic
www.obecnidum.cz
Gala Dinner

Monday, October 9, 2017 • 6:00pm - 9:00pm

Tickets are on sale now to attend the World Sleep 2017 Gala Dinner on Monday, October 9, 2017

The gala will be held at Slovansky dum (Slavic House) in Prague. Join attendees to celebrate and network over dinner and drinks. This is an exclusive event limited to 320 tickets. Purchase a single ticket or a table of eight. Entertainment will be provided by a local jazz band followed by a black light theatre production.

Agenda

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:00 – 6:30pm</td>
<td>Reception</td>
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<tr>
<td>6:30 – 7:00pm</td>
<td>Dinner</td>
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<tr>
<td>7:00 – 7:30pm</td>
<td>Black light theatre production</td>
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<tr>
<td>7:30 – 8:00pm</td>
<td>Dessert</td>
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<tr>
<td>8:00 – 8:30pm</td>
<td>Black light theatre production</td>
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<tr>
<td>8:30 – 9:00pm</td>
<td>Networking</td>
</tr>
</tbody>
</table>

Slovansky dum (Slavic House) >>
Na Příkopě 22, 110 00
Praha 1-Nové Město, Czechia

Tickets:
$95 per ticket
$760 for table of 8
www.slovanskydum.cz/en

Preliminary Scientific Program. All content is subject to change.
Keynote Speakers

Monday, October 9

Jerry Siegel, PhD  
UCLA Center for Sleep Research (U.S.)  
8:00am – 9:00am I Congress Hall  
The evolution of human sleep based on present-day hunter-gatherers  
How did humans sleep before the modern era? Because the tools to measure sleep under natural conditions were developed long after the invention of the electric devices suspected of delaying and reducing sleep, we investigated sleep in three preindustrial societies. We find that all three show similar sleep organization, suggesting that they express core human sleep patterns, most likely characteristic of pre-modern era Homo sapiens.

Soňa Nevšímalová, MD, DrS  
Charles University (Czech Republic)  
10:30am – 11:15am I Congress Hall  
Central hypersomnias through the eyes of time  
Central hypersomnias have a long tradition in our country thanks to Bedrich Roth. The first cases of idiopathic hypersomnia were described more than 60 years ago, and Prof. Roth collected in the 70s and 80s the largest clinical cohort of 1,000 patients with excessive daytime sleepiness. Later research confirmed many of his ideas.

Yuichi Inoue, MD, PhD  
Tokyo Medical University (Japan)  
11:15am – 12:00pm I Congress Hall  
Racial difference in sleep disorders

Clement Cheng-Hui Lin, MD  
Chang Gung Craniofacial Center, Surgery and orthodontics (Taiwan)  
3:30pm – 4:15pm I Congress Hall  
Dental sleep medicine  
Underdevelopment of craniofacial region can be accompanied by small skeletal framework, disproportion between structures, and narrowed pharyngeal airway.

Oliviero Bruni, MD  
Sapienza University of Rome, Pediatrics (Italy)  
4:15pm – 5:00pm I Congress Hall  
History of pediatric sleep and the contribution of sleep microstructure  
The aim of this presentation is to depict the discovery of sleep physiology and pathology in infants and the emergence of the discipline of Pediatric Sleep Medicine as a relatively autonomous entity.
Keynote Speakers

Tuesday, October 10

Chiara Cirelli, MD, PhD
University of Wisconsin-Madison (U.S.)
8:15am – 9:00am I Congress Hall

Sleep and synaptic homeostasis
Sleep is universal, tightly regulated, and many cognitive functions are impaired if we do not sleep. But why? Why do our brains need to disconnect from the environment for hours every day?

Mehdi Tafti, PhD
University of Lausanne, Basic Science (Switzerland)
10:30am – 11:15am I Congress Hall

Sleep: From single neuron to behavior
Sleep is conserved throughout the evolution independent of the organization of the nervous system. This suggests that mechanisms regulating this complex behavior must also be conserved at the very basic molecular and cellular levels.

Juliane Winkelmann, MD, PhD
Neurogenetics, Technische University Munich (Germany)
Chair, Institute of Neurogenomics, Helmholtz Zentrum München
11:15am – 12:00pm I Congress Hall

Genetics of restless legs syndrome
RLS is a complex genetic disorders where common and rare genetic variants contribute to the phenotype. This knowledge changed our idea about our pathophysiological concept. Furthermore, we are gaining new ideas towards the mode of action of drugs and potential new drugs.

Michael R. Irwin, MD
UCLA Semel Institute for Neuroscience, and David Geffen School of Medicine at UCLA (U.S.)
9:45am – 10:30am I Congress Hall

Chronic insomnia and the immune response
Insomnia is considered a public health epidemic, which contributes to increased risk of inflammatory disorders and all-cause mortality.

Allison Harvey, PhD
University of California – Berkeley (U.S.)
4:15pm – 5:00pm I Congress Hall

Treating sleep and circadian problems: A transdiagnostic approach
Past treatments for sleep and circadian disturbances have been disorder-focused—they have treated a specific sleep problem (e.g., insomnia) in a specific diagnostic group (e.g., depression). However, real life sleep and circadian problems are often not so neatly categorized: Features of insomnia commonly overlap with features of hypersomnia, delayed sleep phase and irregular sleep-wake schedules.
Fang Han, MD
Peking University (China)
8:15am – 9:00am I Congress Hall

H1N1, seasonality and childhood narcolepsy
Narcolepsy is recognized different across ethnic groups in many aspects including prevalence, predisposing factors and clinical presentations. In a series of 2500 narcolepsy cataplexy patients received over 20 years in a sleep lab in China, narcolepsy symptoms onset is highly correlated with seasonal and annual patterns of upper airway infections.

Isabelle Arnulf, MD, PhD
Pitié-Salpêtrière University Hospital (France)
9:45am – 10:30 am I Congress Hall

Parasomnias: A window into dream
Parasomnias in REM sleep (RBD) are newly identified behaviors strongly associated with neurodegeneration. Researches are now focused on following other early signs of neurodegeneration and developing neuroprotective therapy.

Michael Chee, MBBS
Duke-NUS Medical School (Singapore)
10:30am – 11:15am I Congress Hall

Sleep restriction in adolescents: Cognitive effects and remedies
A snapshot of current sleep behaviors and factors underlying short sleep in one such country will be presented.

Debra Skene, BPharm, MSc, PhD
University of Surrey (U.K.)
11:15am – 12:00pm I Congress Hall

Circadian rhythm sleep disorders: Challenges in diagnosis and treatment
The mismatch between the circadian timing system and behavioral rhythms in sleep/wake and feeding/fasting has both acute and chronic adverse effects on many physiological systems. Elucidation of the molecular clockwork, the melanopsin-mediated photic pathways and discovery of peripheral clocks throughout the body has provided not only new opportunities but also challenges in the diagnosis and treatment of circadian rhythm disorders. Accurate diagnosis of both central and peripheral clock timing in humans and the role of photic and nonphotic time cues (meals, melatonin) in synchronizing/resetting these rhythms will be discussed.
Keynote Speakers

**Wednesday, October 11**

**Mary Morrell, PhD**
London, Sleep breathing disorders (U.K.), President of British Sleep Society
12:30pm – 1:15pm | Congress Hall

**Control of sleep-related breathing**
This keynote lecture will explore the interactions between sleep and respiratory control that lead to sleep-related breathing disorders.

**Doug McEvoy, MD**
Adelaide Institute for Sleep Health (Australia)
1:15pm – 2:00pm | Congress Hall

**Cardiovascular risk, OSA, and CPAP (SAVE study)**
### Schedule at a Glance

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Location/Room</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Saturday</strong></td>
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<tr>
<td></td>
<td>8:00am – 11:00pm</td>
<td>Room IV</td>
<td>14th Czech-Slovak and 19th Congress of the Czech Society for Sleep Research and Sleep Medicine</td>
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<tr>
<td>C01</td>
<td>8:00am – 5:00pm</td>
<td>Club H</td>
<td>Pediatric sleep medicine</td>
</tr>
<tr>
<td>C02</td>
<td>8:00am – 5:00pm</td>
<td>Club A and B</td>
<td>Insomnia therapeutics</td>
</tr>
<tr>
<td>C05</td>
<td>8:00am – 12:00pm</td>
<td>Hall 1B</td>
<td>Technology and effective business models in sleep medicine</td>
</tr>
<tr>
<td>C06</td>
<td>8:00am – 12:00pm</td>
<td>Hall 1A</td>
<td>Biology and pharmacology of sleep</td>
</tr>
<tr>
<td>C07</td>
<td>8:00am – 12:00pm</td>
<td>Club D and E</td>
<td>Circadian medicine</td>
</tr>
<tr>
<td>C08</td>
<td>1:00pm – 5:00pm</td>
<td>Club 1B</td>
<td>Ambulatory sleep medicine</td>
</tr>
<tr>
<td>C09</td>
<td>1:00pm – 5:00pm</td>
<td>Club D and E</td>
<td>Sleep stages scoring and apnea scoring using computer lab equipment</td>
</tr>
<tr>
<td>C10</td>
<td>1:00pm – 5:00pm</td>
<td>Hall 1A</td>
<td>Differential diagnosis of sleep disorders. Video seminar of different sleep disorders and review of treatment options</td>
</tr>
<tr>
<td>C100</td>
<td>8:00am – 5:30pm</td>
<td>North Hall</td>
<td>International RLS study group: RLS is not just leg kicking</td>
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<td><strong>Sunday</strong></td>
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<tr>
<td>C03</td>
<td>8:00am – 4:30pm</td>
<td>Meeting Hall 1B</td>
<td>State of the field</td>
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<tr>
<td>C04</td>
<td>8:00am – 4:30pm</td>
<td>Club H</td>
<td>Modifying the upper airway for sleep apnea management</td>
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<tr>
<td>C11</td>
<td>8:00am – 12:00pm</td>
<td>Club A and B</td>
<td>Restless legs syndrome</td>
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<tr>
<td>C12</td>
<td>8:00am – 12:00pm</td>
<td>Club D and E</td>
<td>Pushing the envelope of sleep apnea medicine</td>
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<tr>
<td>C13</td>
<td>8:00am – 12:00pm</td>
<td>Hall 1A</td>
<td>Heart and sleep</td>
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<tr>
<td>Technologist Session TBD</td>
<td>9:00am – 5:00pm</td>
<td>North Hall</td>
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<tr>
<td>C14</td>
<td>12:30am – 4:30pm</td>
<td>Club A and B</td>
<td>Dental sleep medicine</td>
</tr>
<tr>
<td>C15</td>
<td>12:30am – 4:30pm</td>
<td>Club D and E</td>
<td>Sleep and neurodegeneration</td>
</tr>
<tr>
<td>C16</td>
<td>12:30am – 4:30pm</td>
<td>Hall 1A</td>
<td>Sleep related movements: Standards for scoring, interpreting, reporting, and publishing</td>
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<tr>
<td><strong>Monday</strong></td>
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<td></td>
<td>8:00am – 9:00am</td>
<td>Congress Hall</td>
<td>The evolution of human sleep based on present-day hunter-gatherers</td>
</tr>
<tr>
<td>S02</td>
<td>9:00am – 10:30am</td>
<td>Congress Hall</td>
<td>Sleep and hypertension - causality and co-morbidities</td>
</tr>
<tr>
<td>S03</td>
<td>9:00am – 10:30am</td>
<td>Meeting Hall IV</td>
<td>Sleep and stress: A relationship lasting a lifetime</td>
</tr>
<tr>
<td>S04</td>
<td>9:00am – 10:30am</td>
<td>Meeting Hall V</td>
<td>The importance of sleep in children around the world: Factors which affect outcomes</td>
</tr>
<tr>
<td>S05</td>
<td>9:00am – 10:30am</td>
<td>Club A and B</td>
<td>Sleep and circadian factors in metabolic risk: A translational perspective</td>
</tr>
<tr>
<td>S06</td>
<td>9:00am – 10:30am</td>
<td>Meeting Hall 1A</td>
<td>Role of neuroimaging: Brain characteristics in sleep disorders</td>
</tr>
<tr>
<td>S07</td>
<td>9:00am – 10:30am</td>
<td>Meeting Hall 1B</td>
<td>The role of genetic biomarkers in sleep medicine</td>
</tr>
<tr>
<td>S08</td>
<td>9:00am – 10:30am</td>
<td>Club D and E</td>
<td>Iron metabolism: Genetics, environment and RLS</td>
</tr>
<tr>
<td>S09</td>
<td>9:00am – 10:30am</td>
<td>Terrace 1</td>
<td>Physiological responses of oromaxillofacial anatomy in obstructive sleep apneics undergoing maxillomandibular advancement</td>
</tr>
<tr>
<td>Technologist Session 1</td>
<td>9:00am – 10:30am</td>
<td>Club H</td>
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<tr>
<td>Central hypersomnias through the eyes of time</td>
<td>10:30am – 11:15am</td>
<td>Congress Hall</td>
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<tr>
<td>S10</td>
<td>10:30am – 12:00pm</td>
<td>Meeting Hall IV</td>
<td>REM-sleep and depression: Research into clinically meaningful biomarkers</td>
</tr>
<tr>
<td>S11</td>
<td>10:30am – 12:00pm</td>
<td>Meeting Hall V</td>
<td>The role of nocturnal eating on insomnia, diurnal sleepiness and obesity</td>
</tr>
<tr>
<td>S12</td>
<td>10:30am – 12:00pm</td>
<td>Meeting Hall V</td>
<td>The interplay between sleep and academic performance: From neural mechanisms to educational policy</td>
</tr>
<tr>
<td>S13</td>
<td>10:30am – 12:00pm</td>
<td>Club A and B</td>
<td>OSA and atherogenesis: Reversible or not?</td>
</tr>
<tr>
<td>S14</td>
<td>10:30am – 12:00pm</td>
<td>Club A and B</td>
<td>Sleep education and society</td>
</tr>
<tr>
<td>S15</td>
<td>10:30am – 12:00pm</td>
<td>Club D and E</td>
<td>Local sleep and local wake: From basic science to sleep arousal disorders</td>
</tr>
<tr>
<td>Sleep breathing disorders oral abstract presentations</td>
<td>10:30am – 12:00pm</td>
<td>Club D and E</td>
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</tbody>
</table>
### Schedule at a Glance

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30am</td>
<td>S16 Nasal obstruction and its role in sleep disordered breathing</td>
<td>Terrace 1</td>
</tr>
<tr>
<td>10:30am</td>
<td>Insomnia oral abstract presentations</td>
<td>Club H</td>
</tr>
<tr>
<td>11:15am</td>
<td>Racial difference in sleep disorders</td>
<td>Congress Hall</td>
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<tr>
<td>12:30am</td>
<td>Satellite symposium</td>
<td>TBD</td>
</tr>
<tr>
<td>2:00pm</td>
<td>S17 New evidence on the treatment of insomnia comorbid with depression, pain, sleep apnea or</td>
<td>Congress Hall</td>
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<tr>
<td></td>
<td>circadian disorders</td>
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<tr>
<td>2:00pm</td>
<td>S18 Beyond academic walls: Society education as an essential field in sleep science</td>
<td>Congress Hall</td>
</tr>
<tr>
<td>2:00pm</td>
<td>Other sleep disorders oral abstract presentations</td>
<td>Meeting Hall IV</td>
</tr>
<tr>
<td>2:00pm</td>
<td>S19 Sleep disorders in the adolescent population: The missing link</td>
<td>Meeting Hall V</td>
</tr>
<tr>
<td>2:00pm</td>
<td>S20 Advances in obstructive sleep apnea pathogenesis and non-CPAP therapies</td>
<td>North Hall</td>
</tr>
<tr>
<td>2:00pm</td>
<td>S21 European Narcolepsy Network (EU-NN) - Narcolepsy: From etiology to treatment</td>
<td>Club A and B</td>
</tr>
<tr>
<td>2:00pm</td>
<td>S22 The waking, sleeping and dreaming brain: New circuits and insights</td>
<td>Meeting Hall 1A</td>
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<tr>
<td>2:00pm</td>
<td>S23 In search of alternatives to dopaminergic ligands in RLS/WED: The Emerging role of</td>
<td>Club D and E</td>
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<td>glutamate and adenosine</td>
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<td>2:00pm</td>
<td>S24 Personalization of mandibular advancement devices: Digital analysis of the movements</td>
<td>Terrace 1</td>
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<td>achieved and mathematical model for the study of the jaw Kinematics</td>
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<tr>
<td>2:00pm</td>
<td>S25 Measuring quality in the delivery of sleep medicine: Metrics and patient reported outcomes</td>
<td>Congress Hall</td>
</tr>
<tr>
<td>3:30pm</td>
<td>S26 Environmental, organizational, and individual factors associated with sleep, sleepiness,</td>
<td>Meeting Hall IV</td>
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<td></td>
<td>performance, health and well-being in night and rotating shift work</td>
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<tr>
<td>3:30pm</td>
<td>S27 Functioning of the restless legs syndrome (RLS) brain: Excitability and con</td>
<td>North Hall</td>
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<td>3:30pm</td>
<td>S28 Arousability and loop gain: the factors that bridge insomnia and sleep-disordered breathing</td>
<td>Club A and B</td>
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<tr>
<td>3:30pm</td>
<td>S29 New developments in narcolepsy diagnosis, research and therapeutics</td>
<td>Meeting Hall 1A</td>
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<td>3:30pm</td>
<td>S30 Behavioral and neurophysiological influences of waking system on sleep</td>
<td>Meeting Hall 1B</td>
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<tr>
<td>3:30pm</td>
<td>S31 Parasomnias: Recent advances in etiology, assessment, and treatment</td>
<td>Congress Hall</td>
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<td>3:30pm</td>
<td>S32 Novel treatments for age-related sleep disruption</td>
<td>Meeting Hall IV</td>
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<tr>
<td>3:30pm</td>
<td>Psychiatric disorders affecting sleep/wake oral abstract presentations</td>
<td>Terrace 1</td>
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<tr>
<td>3:30pm</td>
<td>Neural plasticity, excessive daytime sleepiness (not Narcolepsy), memory, parasomnia,</td>
<td>Club H</td>
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<td>and pharmacology oral abstract presentations</td>
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<td>4:15pm</td>
<td>History of pediatric sleep and the contribution of sleep microstructure</td>
<td>Congress Hall</td>
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<tr>
<td>5:30pm</td>
<td>S33 Parasomnias: Recent advances in etiology, assessment, and treatment</td>
<td>Congress Hall</td>
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<tr>
<td>5:30pm</td>
<td>S34 Pediatric OSA: diagnostic and treatments involving a multidisciplinary team</td>
<td>Meeting Hall V</td>
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<tr>
<td>5:30pm</td>
<td>S35 Minimally invasive implantable approaches for OSA</td>
<td>Club A and B</td>
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<tr>
<td>5:30pm</td>
<td>S36 Understanding the potential role for Mn in RLS etiology using novel human and animal</td>
<td>Meeting Hall 1A</td>
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<td>5:30pm</td>
<td>S37 Basic research &amp; new treatment approaches in sleep-related breathing disorders</td>
<td>Meeting Hall 1B</td>
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<tr>
<td>5:30pm</td>
<td>S39: Obstructive sleep apnea severity and the role of oral appliances</td>
<td>Terrace 1</td>
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<td>Technologist session 3</td>
<td>Club H</td>
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</tbody>
</table>

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Preliminary Scientific Program. All content is subject to change.
## Schedule at a Glance

<table>
<thead>
<tr>
<th>Courses</th>
<th>Satellite Symposium</th>
<th>Keynote</th>
<th>Oral Abstract</th>
<th>Social Event</th>
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<tbody>
<tr>
<td>Pediatric</td>
<td>Technologist Program</td>
<td>Symposia</td>
<td>Surgeon &amp; Dental</td>
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</tr>
</tbody>
</table>

### Tuesday

- **Sleep and synaptic homeostasis**: 8:15am – 9:00am | Congress Hall
- **S41 Sleep and sex: What can go wrong?**: 9:00am – 10:30am | Meeting Hall IV
- **S42 Sleep dependent brain oscillations as early markers of neurodegeneration**: 9:00am – 10:30am | Meeting Hall V
- **S43 Sleep related learning and behavioural functioning in children with developmental disorders**: 9:00am – 10:30am | North Hall
- **S44 Myofunctional therapy as an adjunct treatment for sleep disordered breathing: validation of screening tools and objective measurements of progress for an emerging standard of care**: 9:00am – 10:30am | Club A and B
- **S46 New approaches to studies of genetics of sleep and its disorders**: 9:00am – 10:30am | Meeting Hall 1B
- **S47 Insomnia phenotypes: identification and treatment response**: 9:00am – 10:30am | Club D and E
- **S48 NON-PAP treatment of Obstructive-sleep-apnea in late teen-agers and early adulthood: What can be done, orthodontia and surgery?** 9:00am – 10:30am | Terrace 1
- **Technologist Session 4**: 9:00am – 10:30am | Club H
- **Sleep: From single neuron to behavior**: 10:30am – 11:15am | Congress Hall
- **S49 Daytime sleepiness: Newest research results & experts' opinions**: 10:30am – 12:00pm | Meeting Hall IV
- **S50 Multiple sclerosis, sleep, and sleep disorders**: 10:30am – 12:00pm | Meeting Hall V
- **S51 Diagnosis, morbidity and treatment of pediatric OSA: What's new?**: 10:30am – 12:00pm | North Hall
- **S52 Dynamic circuit connecting the circadian clock and sleep/wakefulness**: 10:30am – 12:00pm | Club A and B
- **S53 How the reticular activating system (RAS) modulates perception and movement**: 10:30am – 12:00pm | Meeting Hall 1A
- **S54 Menopause matters: hormones, hot flashes, and sleep disorders**: 10:30am – 12:00pm | Meeting Hall 1B
- **REM behavior disorders oral abstract presentations**: 10:30am - 12:00pm | Club D and E
- **S55 OSA treatment in adult [men and women] non compliant with nasal PAP, indication and potential treatment: surgical approaches and nerve implantation**: 10:30am – 12:00pm | Terrace 1
- **Sleep breathing disorders oral abstract presentations**: 10:30am - 12:00pm | Club H
- **S56 What can we learn from recent large negative clinical trials in sleep-disordered breathing?**: 2:00pm – 3:30pm | Congress Hall
- **S57 Ascertainments of RBD and its clinical implications for neurodegeneration**: 2:00pm – 3:30pm | Meeting Hall IV
- **S58 Environmental challenges: the impact of artificial light on sleep and circadian biology**: 2:00pm – 3:30pm | Meeting Hall V
- **S59 Developmental aspects of sleep’s influence on memory and general cognitive abilities**: 2:00pm – 3:30pm | North Hall
- **S60 Sleep loss and socio-emotional functioning**: 2:00pm – 3:30pm | Club A and B
- **S61 Idiopathic hypersomnia: Aneglected disorder**: 2:00pm – 3:30pm | Meeting Hall 1A
- **S62 Sleep slow waves – from cells to consciousness**: 2:00pm – 3:30pm | Meeting Hall 1B
- **S63 OSA, Upper-airway surgery and MAD: techniques to select location, surgical techniques to be used, personalization of mandibular-advancement-device**: 2:00pm – 3:30pm | Terrace 1
- **Technologist session 5**: 2:00pm – 3:30 I Club H
- **Chronic insomnia and the immune response**: 2:00pm – 3:30 I Club H
- **S64 Understanding the pathophysiology of RBD and REM sleep**: 3:30pm – 5:00pm | Meeting Hall IV
- **S65 Sleep-related hypermotor epilepsy (SHE): from the basic mechanisms to the differential diagnosis**: 3:30pm – 5:00pm | Meeting Hall V
Tuesday

S66 Deficient sleep in children and adolescents: generating solutions for a global epidemic
3:30pm – 5:00pm I North Hall

S67 Respiratory muscle function and intervention of upper airway in patients with sleep disordered breathing
3:30pm – 5:00pm I Club A and B

S68 Sleep disorders in post-menopausal and elderly women: The impacts on physical and mental health
3:30pm – 5:00pm I Meeting Hall 1A

S69 Effects of sleep deprivation: Novel agents and mechanisms
3:30pm – 5:00pm I Meeting Hall 1B

Sleep breathing disorders oral abstract presentations
10:30am – 12:00pm I Club D and E

Behavior, cognition and dreaming and neurological sleep disorders affecting sleep oral abstract presentations
3:30pm – 5:00pm I Terrace 1

Basic research oral abstract presentations
3:30pm – 5:00pm I Club H

Treating sleep and circadian problems: A transdiagnostic approach
4:15pm – 5:00pm I Congress Hall

S71 Sleep, clocks, and neurodegeneration
5:30pm – 7:00pm I Meeting Hall IV

S72 The duality of sleep movement
5:30pm – 7:00pm I Meeting Hall V

S73 Practical aspect of pediatric sleep medicine
5:30pm – 7:00pm I North Hall

S74 Extracting sleep breathing phenotypes from lab and home data
5:30pm – 7:00pm I Club A and B

S75 Sleep and mental health in a changing society
5:30pm – 7:00pm I Meeting Hall 1A

S76 Sleep, slow waves and brain temperature: Insights from hibernators
5:30pm – 7:00pm I Meeting Hall 1B

Sleep breathing disorders oral abstract presentations
3:30pm – 5:00pm I Terrace 1

Technologist Session 6
9:00am – 10:30am I Club H

World Sleep Day Networking Session
7:00pm – 10:00pm I Admin #201

Wednesday

H1N1, seasonality and childhood narcolepsy
8:15am – 9:00am I Congress Hall

S78 Sleep at high altitude
9:00am – 10:30am I Meeting Hall IV

S79 To network or not during sleep and after sleep loss
9:00am – 10:30am I Meeting Hall V

S80 Sleep during early stage of life affects long-term outcomes
9:00am – 10:30am I North Hall

S81 Sleep, brain-heart relationships, and sudden death risk
9:00am – 10:30am I Club A and B

S82 Animal models for restless legs syndrome: New developments and future challenges
9:00am – 10:30am I Club D and E

S94 Circadian rhythm sleep-wake disorders and insomnia: What are the consequences and how do we optimize treatment?
9:00am – 10:30am I Terrace 1

Technologist Session 7
9:00am – 10:30am I Club H

Parasomnias: A window into dream
9:45am – 10:30am I Congress Hall

Sleep restriction in adolescents: Cognitive effects and remedies’
10:30am – 11:15am I Congress Hall

S83 The relationship between sleep, pain, and fatigue following traumatic brain injury: From bench to bedside
10:30am – 12:00pm I Meeting Hall IV

S84 Cortical nNOS neurons: A nexus between homeostatic sleep drive and EEG slow wave activity?
10:30am – 12:00pm I Meeting Hall V

S85 Suicide, sleep and circadian rhythms in adolescents
10:30am – 12:00pm I North Hall

S86 Vitamin D and sleep
10:30am – 12:00pm I Club A and B

Chronobiology/Circadian Disorders Oral Abstract Presentations
10:30am – 12:00pm I Club D and E

Sleep breathing disorders oral abstract presentations
10:30pm – 12:00pm I Terrace 1

Other sleep disorders oral abstract presentations
10:30am – 12:00pm I Club H

Circadian rhythm sleep disorders
11:15am – 12:00pm I Congress Hall

Control of sleep-related breathing
12:30pm – 1:15pm I Congress Hall

S101 Sleepiness and accidents: A joint symposium by ESRS and WSS
12:30pm – 2:00pm I Meeting Hall V

Preliminary Scientific Program. All content is subject to change.
### Schedule at a Glance

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<thead>
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<th>Wednesday</th>
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<tbody>
<tr>
<td><strong>Cardiovascular risk, OSA, and CPAP (SAVE study)</strong></td>
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<tr>
<td><strong>S87 Phenotyping and genotyping sleep apnea</strong></td>
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<tr>
<td><strong>S88 Novel biomarkers for sleep insufficiency and sleep disorders</strong></td>
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<tr>
<td><strong>S89 Restless legs syndrome, augmentation, and dopamine treatment - clinical data and emerging new models</strong></td>
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<tr>
<td><strong>S90 Sleep across cultures in young children from around the world</strong></td>
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<tr>
<td><strong>Technology and technical oral abstract presentations</strong></td>
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<td><strong>S91 Improving insomnia treatments: Less pain, more gain?</strong></td>
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<tr>
<td><strong>Sleep breathing disorders oral abstract presentations</strong></td>
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<td><strong>Technologist Session 8</strong></td>
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<td><strong>S92 Creating a framework for analyses of movement patterns of challenging/disruptive sleep and wake behaviours</strong></td>
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<td><strong>S93 Infra-slow (&lt; 0.1 Hz) oscillations: from the cell to the clinic</strong></td>
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<td><strong>S95 Hypertrophic cardiomyopathy and sleep disordered breathing: Implications for atrial arrhythmias and sudden cardiac death</strong></td>
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<td><strong>S96 Autonomic disorders in sleep medicine</strong></td>
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<tr>
<td><strong>Insomnia oral abstract presentations</strong></td>
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<td><strong>Basic research oral abstract presentations</strong></td>
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<td><strong>Restless legs syndrome (RLS/WED) oral abstract presentations</strong></td>
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<td><strong>S33 Sleep and the kidney</strong></td>
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<td><strong>S100 The characteristics of type 2 narcolepsy in Asian patients</strong></td>
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<tr>
<td><strong>S97 Sleep and sexual dysfunction</strong></td>
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<tr>
<td><strong>S98 Sleep and interventions in children and young people with autism spectrum disorder</strong></td>
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<tr>
<td><strong>Sleep breathing disorders oral abstract presentations</strong></td>
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<td><strong>Technologist Session 9</strong></td>
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Courses

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Saturday, October 7

8:00am – 5:00pm I Club H
C01 Pediatric sleep medicine
A comprehensive review of key features of pediatric sleep medicine. The prevalent expertise in pediatric aspects of sleep medicine is relatively poor, so the topics and speakers are expected to provide basic and advanced aspects on individual topics. Important areas to cover, besides the usual (e.g., sleep apnea, narcolepsy, insomnia) include the use of media and impact on the sleep of children, sleep in developmental disorders, and the inter-relationship of sleep and psychiatric disorders.

Chairs: D. Gozal, United States; O. Bruni, Italy; R. Silvestri, Italy
Speakers: R. Silvestri, Italy; O. Bruni, Italy; J. Owens, United States; J. Van den Bulck, The Netherlands; D. Gozal, United States; L. Kheirandish-Gozal, United States; H.-L. Tan, United Kingdom; M. Lecendreux, France; L. Nobili, Italy; R. Silvestri, Italy; R. Manni, Italy; S. Miano, Italy

8:00am – 5:00pm I Club A and B
C02 Insomnia therapeutics
A comprehensive review of insomnia starting from known etiology to best clinical evidence of therapy. A pro/con for medications / CBT can usefully engage the audience, to obtain useful perspective of realities of time constrained practices. A progressive story reflecting contemporary psychobiological and transdiagnostic approaches (targeting co-morbid conditions) to therapy is a suggested approach. Presentation of alternative forms of psychologically based sleep coaching (Internet based, ancillary clinical staff) will be useful for practitioners in resource-poor or demand-rich settings.

Chairs: C. Espie, United Kingdom; C. Morin, Canada

8:00am – 12:00pm I Hall 1B
C05 Technology and effective business models in sleep medicine
This course will focus on best use of personnel time and technology. Included are an update on technology used in the practice of sleep medicine, including data archiving, remote viewing of data, software running laboratory devices, positive pressure therapy compliance tracking devices, patient therapy applications, and telemedicine. The course will present diverse models in the practice of sleep medicine, with limits imposed by resource, personnel, biology and technology. “Minimal” (individual physicians in private practice in resource limited environment), “maximal” (classic tertiary sleep centers in academic programs) and models in between will be compared, with active engagement from audience members.

Chairs: N. Ramakrishnan, India; M. Bianchi, United States
Speakers: M. Bianchi, United States; N. Ramakrishnan, India; W. Randerath, Germany; E. Wickwire, United States; J. Teran-Santos, Spain; R. Grunstein, Australia

8:00am – 12:00pm I Hall 1A
C06 Biology and pharmacology of sleep
Upon completion of this CME activity, participants should be able to: 1) Review the use of 21st Century tools to identify the brain circuits responsible for wake, NREM and REM sleep; 2) Assess new drugs that target specific receptors; 3) Describe safety and efficacy of current hypnotics; 4) Recognize the adverse consequences of sleep loss.

Chairs: T. Roth, United States; P. Shiromani, United States
Speakers: P. Shiromani, United States; T. Kilduff, United States; T. Roth, United States; S. Veasey, United States
Courses

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Saturday, October 7

8:00am – 12:00pm I Club D and E
C07 Circadian medicine
This course will cover an update on the neural and systemic biology of circadian rhythms, challenges in clinical diagnosis and management, focusing on new data. The intent is to move away from circadian disorders as 'sleep disorders' to be viewed more as systemic disorders. This is the first step for sleep medicine physicians taking ownership of circadian medicine.

Chairs: P. Zee, United States; A. Sumova, Czech Republic; D. Skene, Switzerland

1:00pm – 5:00pm I Club 1B
C08 Ambulatory sleep medicine
This course will cover the movement of sleep medicine away from the sleep lab, across medical and consumer devices. It can include telemedicine opportunities. The future (or even the development) of sleep medicine in most countries lies in ambulatory testing and management. The focus should be on how to best use (and not use) technology, with an aim for greatest impact on a population of largely undiagnosed and untreated sleep disorders. Use of data from therapy devices can be here on in “pushing the edge of sleep apnea medicine” course.

1:00pm – 5:00pm I Club D and E
C09 Sleep stages scoring and apnea scoring using computer lab equipment
In this course there are the most common and frequently requested topics to be covered in order to get familiar with the latest and most updated guidelines as per the AASM. The topics will discuss very interesting practical and clinical examples where most scorers find these very confusing.

Chairs: T. Penzel, Germany Speakers: T. Penzel, Germany; A. Obeidat, United States

1:00pm – 5:00pm I Hall 1A
C10 Differential diagnosis of sleep disorders. Video seminar of different sleep disorders and review of treatment options
This course is aimed to increase participants’ knowledge and skills on the diagnosis and differential diagnosis of some of the most frequent sleep disorders, namely narcolepsy, idiopathic REM sleep behavior disorder, NREM sleep parasomnia (sleepwalking, nocturnal terrors, confusional awakenings), restless legs syndrome, periodic leg movements in sleep and obstructive sleep apnea. The use of clinical history, polysomnography, video analysis and ancillary tests will be discussed. Pharmaceutical and non pharmaceutical therapeutic options will also be addressed.

Chairs: B. Högl, Austria; A. Iranzo, Spain Speakers: B. Högl, Austria; A. Iranzo, Spain; W. Randerath, Germany; A. Stefani, Austria; L. Nobili, Italy

8:00am – 5:30pm I North Hall
C100 International RLS study group: RLS is not just leg kicking
This year’s educational program will introduce new and expanded data on RLS and limb movements. Several presentations will discuss the association of weight and RLS with and without PLMS. Recent data from imaging studies contribute to the understanding of the pathophysiology of RLS. More presentations will debate the unequivocal association of sleep related limb movements and RLS. Clinical aspects of RLS in adults and children will be reviewed. Finally, treatment conundrums will be discussed. New this year, we will present opportunities for international collaboration.

Chair: D. Garcia-Borreguero, Spain Speakers: K. Sonka, Czech Republic; X. Gao, United States; F. Provini, Italy; M. Manconi, Switzerland; K.Y. Jung, Republic of Korea; Y.W. Cho, Republic of Korea; R.P. Allen, United States; R. Ferri, Italy; S. Fulda, Switzerland; A. Iranzo, Spain; D. Kemlink, Czech Republic; A. Walters, United States; C. Trenkwalder, Germany; D. Garcia-Borreguero, Spain; J. Winkelmann, Germany
Courses

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Sunday, October 8

8:00am – 4:30pm I Meeting Hall 1B
C03 State of the field
This course will bring together basic science and clinical advances, putting together the best of a “year in review” and a “basic science/methods” update for the sleep physician. The span of topics should include technology, controversial areas, recent (2-3 years) literature.

Chairs: A. Pack, United States; R.J. Thomas, United States

8:00am – 4:30pm I Club H
C04 Modifying the upper airway for sleep apnea management
This course will bring together dental and surgical approaches to the upper airway, which is of special interest to countries where sleep medicine is less developed or too expensive. The course should range from airway development to structural and functional modification, with presentation of long-term outcomes when available.

Chair: C. Guilleminault, United States
Speakers: C. Guilleminault, United States; C. Torre, United States; A. Schwartz, United States; C.C.-H. Lin, Taiwan; P. Baptista, Spain; J. Cifuentes, Chile; S.-T. Toh, Singapore; S. Liu, United States; N. de Vries, The Netherlands

8:00am – 12:00pm I Club A and B
C11 Restless legs syndrome
This course will deal with new concepts in diagnosis and management of RLS, with a special focus on iron therapy, augmentation, long term outcomes including impulse control disorders, new guidelines, and update on pathophysiology.

8:00am – 12:00pm I Club D and E
C12 Pushing the envelope of sleep apnea medicine
This course will deal with difficult, cutting-edge, and controversial aspects of sleep apnea management, including high loop gain sleep apnea, hypoventilation, management of associated symptoms, and new therapies. Use of data from therapy devices can be here or in the ambulatory sleep medicine course.

8:00am – 12:00pm I Hall 1A
C13 Heart and sleep
This course will cover an update on physiology/pathophysiology, heart failure, arrhythmias, and sudden death. The failure of several high-profile trials in sleep medicine can be usefully discussed here. As there is general familiarity with heart/sleep literature by practitioners of sleep medicine, this course is proposed to deal with advanced materials and controversies.

Chairs: D. McEvoy, Australia; D. Bradley, Canada

12:30am – 4:30pm I Club A and B
C14 Dental sleep medicine
In the management of sleep disordered breathing, dental, and medical sleep medicine societies and members have built a strong collaboration in the last three decades. Early interventions in children and teenagers are avenues that may concur to prevent development of long term risks related to sleep apnea. What we should know and avoid with such interventions remains an open field of clinical research.

Chairs: C. Guilleminault, United States; G. Lavigne, Canada
Speakers: G. Lavigne, Canada; P. Pirelli, Italy; B. Vande Vannet, Belgium; A. Yoon, United States; M. Marklund, Sweden; J. Moeller, United States; N. Huhn, Canada

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Sunday, October 8

12:30am – 4:30pm | Club D and E
C15 Sleep and neurodegeneration
This course aims to increase participants’ knowledge and skills on the impact on sleep and sleep disorders in subjects with neurodegenerative diseases. We will see how a sleep disorder (the idiopathic form REM sleep behavior disorder) indeed represents the first manifestation of a neurodegenerative disease such as Parkinson disease. Thus, its correct diagnosis and the design of a neuroprotective trial in idiopathic REM sleep behavior is a real need today.

Chairs: L. Ferini-Strambi, Italy; A. Iranzo, Spain
Speakers: L. Ferini-Strambi, Italy; A. Stefani, Austria; M.L. Fantini, France; A. Iranzo, Spain; V. Cochen DeCock, France

12:30am – 4:30pm | Hall 1A
C16 Sleep related movements: Standards for scoring, interpreting, reporting, and publishing
Practical learning of manual and automated scoring techniques and methods for PLMS, RBD, and bruxism including updates on international guidelines and publication standards for reporting of movement. The course will contain hands on practice elements for both leg movement detection and scoring, using new, freely available scoring programs. Participants should bring their own computers (not tablets). Materials including sample recordings and scoring programs will be available for download. International experts will discuss the significance of the scoring of sleep related movements with implications for research and publications standards.

Chairs: R.P. Allen, United States; R. Ferri, Italy; S. Fulda, Switzerland
Speakers: S. Fulda, Switzerland; R.P. Allen, United States; R. Ferri, Italy; B. Högl, Austria; F. Sixel-Döring, Germany; T. Kato, Japan
Symposia

Monday, October 9

9:00am – 10:30am I Congress Hall

S01 SERVE-HF and beyond

The proposed symposium is intended to explore the management of central sleep apnea since the results of the SERVE-HF trial, to discuss lessons learned, to describe newer studies such as the Effect of Adaptive Servo Ventilation on Survival and Hospital Admissions in Heart Failure (ADVENT-HF), and to assess CSA management by oxygen therapy and phrenic nerve stimulation in heart failure patients.

Chairs: S. Javaheri, United States; C. Kushida, United States
Speakers: S. Javaheri, United States; W. Randerath, Germany; P. Levy, France; D. Bradley, Canada; A. Malhotra, United States; C. Kushida, United States

9:00am – 10:30am I Meeting Hall IV

S02 Sleep and hypertension - causality and co-morbidities

Both Hypertension as well as sleep disorders are highly prevalent among populations worldwide. Population based studies have shown that short nightly sleep duration is associated with increased incidence of various cardiovascular diseases. Data from a recent epidemiological study suggest that the risk for hypertension was nearly one and a half times higher among patients with sleep disorders, in comparison with those without any sleep problems.

Chair: G. Shukla, India
Speakers: G. Shukla, India; V. Somers, United States; J. Suri, India; R. Ferri, Italy

9:00am – 10:30am I Meeting Hall V

S03 Sleep and stress: A relationship lasting a lifetime

The bidirectional relationship between sleep and stress has been widely investigated (McEwen 2015, Juster 2015). However, this relationship need to be better understood for important clinical implications, especially, regarding insomnia and circadian disorders, in order to prevent and treat their important negative impact on health. Here, we want to include ‘periods of life’ as a new element of this equation. Indeed, this symposium aims at investigating the role of acute and chronic stress in determining sleep derangements from a life course perspective by integrating basic and clinical research.

Chair: L. Palagini, Italy
Speakers: L. Palagini, Italy; S. Bastianini, Italy; P. Franken, Switzerland; P. Meerlo, The Netherlands; C. Drake, United States

9:00am – 10:30am I Club A and B

S05 Sleep and circadian factors in metabolic risk: A translational perspective

Obesity and diabetes are major public health epidemics throughout most of the developed world. They play major roles in preventable morbidity and mortality. Substantial scientific work has been undertaken to better understand the role of sleep and circadian factors in the physiologic processes that contribute to obesity and diabetes (and related conditions within the cardiometabolic domain).

Chair: M. Grandner, United States
Speakers: M. Grandner, United States; U. Albrecht, Switzerland; K. Wright, United States; K. Spiegel, France
Symposia

Monday, October 9

9:00am – 10:30am I Meeting Hall 1A
S06 Role of neuroimaging: Brain characteristics in sleep disorders
Neuroimaging is a very useful technique for investigating brain structural or functional changes in neurological disorders and sleep disorders.

Chairs: S.B. Hong, Republic of Korea; Y. Inoue, Japan  Speakers: Y. Inoue, Japan; R. Kim, Republic of Korea; C. Shin, Republic of Korea; S.B. Hong, Republic of Korea; I.-Y. Yoon, Republic of Korea

9:00am – 10:30am I Meeting Hall 1B
S07 The role of genetic biomarkers in sleep medicine
Sleep-wake patterns as well as sleep disorders are complex traits influenced by variations within multiple genes and their interaction with behavioral and environmental factors.

Chair: S. Tufik, Brazil  Speakers: S. Tufik, Brazil; M. Tafti, Switzerland; R. Amaral Jr., Brazil; P. Farias Tempaku, Brazil

9:00am – 10:30am I Club D and E
S08 Iron metabolism: Genetics, environment and the Restless Legs Syndrome (RLS)
Sleep-wake patterns as well as sleep disorders are complex traits influenced by variations within multiple genes and their interaction with behavioral and environmental factors.

Chair: R.P. Allen, United States  Speakers: R.P. Allen, United States; B.C. Jones, United States; J. Connor, United States; G. Rizzo, Italy; C.J. Earley, United States

10:30am – 12:00pm I Meeting Hall IV
S10 REM-sleep and depression: Research into clinically meaningful biomarkers
The relevance of rapid eye movement (REM) sleep for affective disorders derives from well-established abnormalities in depressed patients. REM sleep overdrive with an increased frequency of rapid eye movements (REM density) is a trait marker of major depression. From a clinical point of view, the major question is whether REM sleep features in depression are reliable biomarkers to predict clinical trajectories or treatment outcomes.

Chair: T. Mikoteit, Switzerland  Speakers: M. Kimura, Germany; R. Kirov, Bulgaria; D. Sadeghi, Islamic Republic of Iran; T. Mikoteit, Switzerland

10:30am – 12:00pm I Meeting Hall V
S11 The role of nocturnal eating on insomnia, diurnal sleepiness and obesity
The relevance of rapid eye movement (REM) sleep for affective disorders derives from well-established abnormalities in depressed patients. REM sleep overdrive with an increased frequency of rapid eye movements (REM density) is a trait marker of major depression. From a clinical point of view, the major question is whether REM sleep features in depression are reliable biomarkers to predict clinical trajectories or treatment outcomes.

Chair: P. Vinai, Italy  Speakers: P. Vinai, Italy; A. Da Ros, Italy; Y. Latzer, Israel; O. Tzischinsky, Israel
10:30am – 12:00pm I Club A and B
S13 OSA and atherogenesis: Reversible or not?
The relevance of rapid eye movement (REM) sleep for affective disorders derives from well-established abnormalities in depressed patients. REM sleep overdrive with an increased frequency of rapid eye movements (REM density) is a trait marker of major depression. From a clinical point of view, the major question is whether REM sleep features in depression are reliable biomarkers to predict clinical trajectories or treatment outcomes.

Chairs: D. Gozal, United States; J.M. Marin, Spain
Speakers: D. Gozal, United States; V. Polotsky, United States; M. Poulin, Canada; J.M. Marin, Spain

10:30am – 12:00pm I Meeting Hall 1A
Sleep education and society
TBD

10:30am – 12:00pm I Club A and B
S15 Local sleep and local wake: From basic science to sleep arousal disorders
Sleep has been traditionally considered as a global process involving the whole brain. However, it has now been established that sleep and wake are not mutually exclusive, as they can co-exist in different brain regions at the same time.

Chair: A. Castelnovo, United States
Speakers: A. Castelnovo, United States; V. Vyazovskiy, United Kingdom; L. Nobili, Italy; C. Schenck, United States

2:00pm – 3:30pm I Congress Hall
S17 New evidence on the treatment of insomnia comorbid with depression, pain, sleep apnea or circadian disorders
Insomnia is the most common sleep-related complaint in clinical practice. It can present as a disorder of its own or, more commonly, it is associated with a comorbid psychiatric or medical disorder, or another sleep disorder. Although significant advances have been made in treating chronic insomnia, outcome is far from being optimal for many patients, particularly those with comorbidities.

Chairs: C. Morin, Canada; Y.K. Wing, Hong Kong
Speakers: C. Morin, Canada; Y.K. Wing, Hong Kong; M.R. Irwin, United States; A.M. Sweetman, Australia; A. Harvey, United States

2:00pm – 3:30pm I Meeting Hall IV
S18 Beyond academic walls: Society education as an essential field in sleep science
The importance of an adequate sleep for health and well-being is well known for researchers in Sleep Medicine; however, the dissemination of sleep knowledge is limited. In other words, dissemination is limited to our peers, to researcher, and to physicians who work in sleep field.

Chair: M.L. Andersen, Brazil
Speakers: M.L. Andersen, Brazil; P. Araujo, Brazil; J.A. Mindell, United States; L. Kim, Brazil; T. Roenneberg, Germany; M. Carskadon, United States
**Symposia**

**Monday, October 9**

**2:00pm – 3:30pm I Club A and B**

**S20 Advances in obstructive sleep apnea pathogenesis and non-CPAP therapies**
Obstructive sleep apnoea (OSA) is a multifactorial disorder. Current treatments are often poorly tolerated (e.g. CPAP) or only partially efficacious (e.g. oral appliances and surgical interventions). Thus, there is an urgent need for new and effective therapies to treat OSA. Improved understanding of the multiple causes of OSA offers the potential to develop and tailor novel and existing therapies according to each patient's specific pathophysiology.

**Chair:** R. Heinzer, Switzerland  
**Speakers:** R. Heinzer, Switzerland; A. Schwartz, United States; OSA D. Eckert, Australia; A. Wellman, United States; M. Kohler, Switzerland

**2:00pm – 3:30pm I Meeting Hall 1A**

**S21 European Narcolepsy Network (EU-NN) - Narcolepsy: From etiology to treatment**
The European Narcolepsy Network (EU-NN) narcolepsy symposium will focus on both the auto-immune etiology and current treatment options for the primary sleep disorder narcolepsy.

**Chair:** C. Bassetti, Switzerland  
**Speakers:** C. Bassetti, Switzerland; G. Mayer, Germany; R. Khatami, Switzerland; U. Kallweit, Switzerland; C. Peyron, France; R. Fronczek, The Netherlands

**2:00pm – 3:30pm I Meeting Hall 1B**

**S22 The waking, sleeping and dreaming brain: New circuits and insights**
Understanding the circuit basis by which the brain regulates behavioral state control, including maintenance of wake, non-rapid-eye-movement (NREM) sleep and rapid-eye-movement (REM; or paradoxical) sleep, and the transitions between these states has long been a goal of sleep neuroscientists and sleep neurologists.

**Chairs:** P. M. Fuller, United States; M. Lazarus, Japan  
**Speakers:** P. M. Fuller, United States; L. de Lecea, United States; A. Venner, United States; Y. Oishi, Japan; A. Yamanaka, Japan; A. Adamantidis, Switzerland; M. Lazarus, Japan

**2:00pm – 3:30pm I Club D and E**

**S23 In search of alternatives to dopaminergic ligands in RLS/WED: The Emerging role of glutamate and adenosine**
The Symposium will review current knowledge on the role of glutamate and adenosine in the regulation of arousal in RLS, and discuss its implications for future treatment.

**Chair:** D. Garcia-Borreguero, Spain  
**Speakers:** D. Garcia-Borreguero, Spain; R. Ferri, Italy; S. Ferré, United States; S. Clemens, United States; H.-P. Landolt, Switzerland

**2:00pm – 3:30pm I Meeting Hall IV**

**S25 Measuring quality in the delivery of sleep medicine: Metrics and patient reported outcomes**
Sleep science impacts patients as it is converted into practice. The degree to which our advances impact patients depends upon not only the strength of the science, but also upon the quality with which the care is delivered.

**Chair:** T. Morgenthaler, United States  
**Speakers:** T. Morgenthaler, United States; H. Walia, United States; F. Han, China; C. Iber, United States
Symposia

Monday, October 9

3:30pm – 5:00pm | Meeting Hall V
S26 Environmental, organizational, and individual factors associated with sleep, sleepiness, performance, health and well-being in night and rotating shift work
Understanding how environmental, organizational, circadian and individual factors interact to impact functional outcomes in night and rotating shift work is crucial for the development of feasible and effective interventions.

Chair: T. Shochat, Israel  
Speakers: T. Shochat, Israel; N. Zion, Israel; O. Tzischinsky, Israel; B. Bjorvatn, Norway; A. Lowden, Sweden; C. Eastman, United States

3:30pm – 5:00pm | North Hall
S27 Functioning of the restless legs syndrome (RLS) brain: Excitability and con
In this symposium an update is presented on excitability of the motor cortex of the hand and leg showing clearly increased excitability for the leg but less certain change for the hand.

Chair: R.P. Allen, United States  
Speakers: R.P. Allen, United States; R. Salas, United States; Y.W. Cho, Republic of Korea; Y. Wang, China; J. Kassubek, Germany

3:30pm – 5:00pm | Club A and B
S28 Arousability and loop gain: the factors that bridge insomnia and sleep-disordered breathing
The symposium aims at linking arousability, sleep fragmentation and sleep disordered breathing, a connection that is regularly observed in the daily clinical practice.

Chairs: L. Parrino, Italy; D. Pevernagie, Belgium  
Speakers: L. Parrino, Italy; D. Pevernagie, Belgium; M. Bosi, Italy; T. Akerstedt, Sweden; D. Pevernagie, Belgium

3:30pm – 5:00pm | Meeting Hall 1A
S29 New developments in narcolepsy diagnosis, research and therapeutics
Although the sleep disorder narcolepsy is now well known to be due to loss of the hypocretin/orexin cells of the tuberal hypothalamus, the cause of this cell loss is unknown but an autoimmune mechanism has long been suspected.

Chairs: T. Kilduff, United States; C. Peyron, France  
Speakers: T. Kilduff, United States; G. Plazzi, Italy; C. Peyron, France; A. Yamanaka, Japan

3:30pm – 5:00pm | Meeting Hall 1B
S30 Behavioral and neurophysiological influences of waking system on sleep
The proposed symposium aims to look into the principles of brain activity during wakefulness and the behavioral and physiological consequences of this state.

Chairs: M.L. Andersen, Brazil; E. Garcia-Rill, United States  
Speakers: M.L. Andersen, Brazil; E. Garcia-Rill, United States; L. Goetz, France; M.L. Andersen, Brazil; I. Arnulf, France
Symposia

Monday, October 9

5:30pm – 7:00pm | Congress Hall
S31 Parasomnias: Recent advances in etiology, assessment, and treatment
This symposium will focus on REM sleep behavior disorder, recurrent isolated sleep paralysis, the various NREM parasomnias, parasomnias related to medical conditions, and exploding head syndrome.

Chair: B.A. Sharpless, United States
Speakers: B.A. Sharpless, United States; M. Mahowald, United States; C. Bassetti, Switzerland; K. Doghramji, United States

5:30pm – 7:00pm | Meeting Hall IV
S32 Novel treatments for age-related sleep disruption
In this symposium, we will describe non-pharmacologic approaches to improving sleep in older adults.

Chair: J. Duffy, United States
Speakers: J. Duffy, United States; K. Scheuermaier, South Africa; I. Haimov, Israel; K. Morgan, United Kingdom; D. Buysse, United States

5:30pm – 7:00pm | Club A and B
S35 Minimally invasive implantable approaches for OSA
The program will focus on the latest medical devices, associated costs and outcomes for treatment of Obstructive Sleep Apnea.

Chair: V. Pavelec, Czech Republic
Speakers: V. Pavelec, Czech Republic; M. Suurna, United States; O. Jacobowitz, United States; J. Maurer, Germany

5:30pm – 7:00pm | Meeting Hall 1A
S36 Understanding the potential role for Mn in RLS etiology using novel human and animal models
Drs. Connor and Patton will summarize alterations in manganese/iron homeostasis by reporting on the proteins alterations involved in the divalent metal homeostatic pathways such as DMT1, ferritin (H and L), transferrin receptor and ferroportin in RLS peripheral lymphocytes. They will also discuss the role of hypoxia pathway activation in RLS lymphocytes.

Chair: J. Connor, United States
Speakers: J. Connor, United States; M. Aschner, United States; A. Walters, United States; S. Patton, United States

5:30pm – 7:00pm | Meeting Hall 1B
S37 Basic research & new treatment approaches in sleep-related breathing disorders
In our symposium firstly we try to give the audience more knowledge about how Sleep-related Breathing Disorders work and causes of these kind of disorders. On the end we connecting the news of basic research with new treatment approaches and we combine it with continuous monitoring from clinical settings.

Chair: A. Büttner-Teleaga, Germany
Speakers: Büttner-Teleaga, Germany; B. Mallick, India; K. Strohl, United States; M. Satoh, Japan
Symposia

Tuesday, October 10

9:00am – 10:30am I Meeting Hall IV
S41 Sleep and sex: What can go wrong?
This symposium intends to address the various problems when two basic instinctual behaviors become pathologically intertwined, viz. sleep and sex.

Chair: C. Schenck, United States Speakers: C. Schenck, United States; M.L. Andersen, Brazil; I. Arnulf, France; F. Ingravallo, Italy

9:00am – 10:30am I Meeting Hall V
S42 Sleep dependent brain oscillations as early markers of neurodegeneration
This symposium will provide an overview of some of the recent development in patients with neurodegenerative disorders.

Chair: J.-F. Gagnon, Canada Speakers: J.-F. Gagnon, Canada; B. Platt, United Kingdom; A. Lazar, United Kingdom; S. Kantor, United Kingdom

9:00am – 10:30am I Club A and B
S44 Myofunctional therapy as an adjunct treatment for sleep disordered breathing: validation of screening tools and objective measurements of progress for an emerging standard of care
This symposium will survey the current state of OMT research around the world and will present the latest OMD screening tools undergoing validation, objective measurements of progress in OMT for SDB patients, and RCTs evaluating the evidence for its efficacy.

Chairs: M. Moeller, United States; O. Bruni, Italy Speakers: M. Moeller, United States; D.K.-K. Ng, Hong Kong; O. Bruni, Italy; E. Bianchini, Brazil; M. Pia Villa, Italy; M. Evangelisti, Italy

9:00am – 10:30am I Meeting Hall 1B
S46 New approaches to studies of genetics of sleep and its disorders
The goals of this symposium are to present these new approaches and to give up-to-date state-of-the-art presentations.

Chair: A. Pack, United States Speakers: A. Pack, United States; E. Mignot, United States; O. Veatch, United States; P. Cistulli, Australia; D. Mazzotti, United States

9:00am – 10:30am I Club D and E
S47 Insomnia phenotypes: identification and treatment response
We intend in this symposium to demonstrate the usefulness of a variety of methods to identify insomnia phenotypes.

Chair: W. Wohlgemuth, United States Speakers: W. Wohlgemuth, United States; M. Sanchez ortuno, Spain; D. Wallace, United States; J. Edinger, United States
Symposia

Tuesday, October 10

10:30am – 12:00pm | Meeting Hall IV
S49 Daytime sleepiness: Newest research results & experts’ opinions
In our symposium, the newest research results of Excessive Daytime Sleepiness shall be presented on one hand. On the other hand, expert opinions about vigilance and Excessive Daytime Sleepiness shall be given.

Chair: A. Büttner-Teleaga, Germany
Speakers: A. Büttner-Teleaga, Germany; F. Han, China; S. Kotterba, Germany; M. Orth, Germany

10:30am – 12:00pm | Meeting Hall V
S50 Multiple sclerosis, sleep, and sleep disorders
The objectives of this symposium are to show the latest relevant data on sleep disorders in MS and offer a helpful approach to the identification and workup of the most common sleep problems in this population.

Chair: L. Ferini-Strambi, Italy
Speakers: L. Ferini-Strambi, Italy; M. Manconi, Switzerland; C. Bassetti, Switzerland; G. Mayer, Germany; G. Rizzo, Italy

10:30am – 12:00pm | Club A and B
S52 Dynamic circuit connecting the circadian clock and sleep/wakefulness
In the present symposium, four speakers will talk their brand new findings related with the circuit including unpublished results and integrate these findings.

Chairs: K.-i. Honma, Japan
Speakers: K.-i. Honma, Japan; S. Honma, Japan; A. Sumova, Czech Republic; Y. Xu, China

10:30am – 12:00pm | Meeting Hall 1A
S53 How the reticular activating system (RAS) modulates perception and movement
This unique and comprehensive symposium will reveal how RAS output modulates our perceptions and movements on a continuous basis.

Chair: S. Datta, United States
Speakers: S. Datta, United States; E. Scamati, Italy; P. Torterolo, Uruguay; P. Mazzone, Italy; E. Garcia-Rill, United States

10:30am – 12:00pm | Meeting Hall 1B
S54 Menopause matters: hormones, hot flashes, and sleep disorders
The proposed symposium addresses a need for furthering awareness and understanding of sleep health in women.

Chair: F. Baker, United States
Speakers: F. Baker, United States; J. Mong, United States; P. Polo-Kantola, Finland; E. Lindberg, Sweden

2:00pm – 3:30pm | Congress Hall
S56 What can we learn from recent large negative clinical trials in sleep-disordered breathing?
The symposium has speakers who will discuss each of the four major negative studies.

Chair: A. Pack, United States
Speakers: A. Pack, United States; D. Bradley, Canada; C. Kushida, United States; D. Gozal, United States; D. McEvoy, Australia
Symposia

Tuesday, October 10

2:00pm – 3:30pm I Meeting Hall IV
S57 Ascertainment of RBD and its clinical implications for neurodegeneration
This symposium appraises the current research on REM sleep behavior disorder (RBD) in relation to neurodegenerative diseases.

Chair: C. Trenkwalder, Germany
Speakers: C. Trenkwalder, Germany; Y.K. Wing, Hong Kong; F. Sixel-Döring, Germany; C. Trenkwalder, Germany; B. Högl, Austria; E. St. Louis, United States

2:00pm – 3:30pm I Meeting Hall V
S58 Environmental challenges: the impact of artificial light on sleep and circadian biology
The ability to produce artificially bright light has had a profound effect on our light environment, giving us much greater flexibility over when we work and socialise. But with what impact?

Chair: A. Skeldon, United Kingdom
Speakers: A. Skeldon, United Kingdom; M. Figuero, United States; A. Coogan, Ireland

2:00pm – 3:30pm I Club A and B
S60 Sleep loss and socio-emotional functioning
The speakers in the proposed symposia will review the presently known links of how sleep affects central aspects of our social life as well as show own recent data.

Chairs: J. Axelsson, Sweden
Speakers: J. Axelsson, Sweden; P. Franzén, United States; T. Sundelin, Sweden; L. Beattie, United Kingdom

2:00pm – 3:30pm I Meeting Hall 1A
S61 Idiopathic hypersomnia: An neglected disorder
This symposium will comprehensively review the latest advances in understanding, diagnosing and treating idiopathic hypersomnia, derived from large series of patients studied in tertiary referral centers.

Chair: I. Arnulf, France
Speakers: I. Arnulf, France; K. Sonka, Czech Republic; D. Rye, United States; G. Mayer, Germany

2:00pm – 3:30pm I Meeting Hall 1B
S62 Sleep slow waves – from cells to consciousness
The presentations included in the proposed symposium are highly integrated, cover a key topic of sleep research on multiple levels, translate these findings to clinical populations and should therefore appeal to a large basic science and clinical audience.

Chair: R. Huber, Switzerland
Speakers: R. Huber, Switzerland; V. Vyazovskiy, United Kingdom; Y. Nir, Israel; M. Massimini, Italy; R. Benca, United States

Preliminary Scientific Program. All content is subject to change.
Symposia

Tuesday, October 10

3:30pm – 5:00pm I Meeting Hall IV
S64 Understanding the pathophysiology of RBD and REM sleep
The session will cover a wide range of aspects of REM sleep mechanisms and their changes in RBD.

Chair: R. Ferri, Italy Speakers: R. Ferri, Italy; J. Peever, Canada; D. Arnaldi, Italy; P. Jennnum, Denmark

3:30pm – 5:00pm I Meeting Hall V
S65 Sleep-related hypermotor epilepsy (SHE): from the basic mechanisms to the differential diagnosis
Nocturnal frontal lobe epilepsy is of considerable interest to practicing neurologists because of complexity in differential diagnosis from more common, benign sleep disorders such as parasomnias.

Chairs: L. Nobili, Italy; F. Provini, Italy Speakers: F. Provini, Italy; L. Nobili, Italy; P. Kahane, France; C. Derry, United Kingdom

3:30pm – 5:00pm I Club A and B
S67 Respiratory muscle function and intervention of upper airway in patients with sleep disordered breathing
Obstructive sleep apnea is characterized with repeated upper airway collapse which is related to weakness of upper airway dilator muscle or imbalance between upper airway dilator muscle activity and collapsing forces generated by inspiratory muscle activity. Assessment of respiratory muscle function including recording neural respiratory drive help us further understand the physiological mechanism of sleep disordered breathing.

Chairs: Y.-M. Luo, China Speakers: Y.-M. Luo, China; P. Catcheside, Australia; X. Zhang, China; J. Steier, United Kingdom; M. Polkey, United Kingdom

3:30pm – 5:00pm I Meeting Hall 1A
S68 Sleep disorders in post-menopausal and elderly women: The impacts on physical and mental health
The hormonal metabolic effects of this age changes on sleep apnea and cardiovascular health will be addressed in term of diagnostic and therapeutic strategies.

Chair: R. Silvestri, Italy Speakers: R. Silvestri, Italy; P. Polo-Kantola, Finland; M.R. Bonsignore, Italy; B.M. Guarneri, Italy; M. Manconi, Switzerland

3:30pm – 5:00pm I Meeting Hall 1B
S69 Effects of sleep deprivation: Novel agents and mechanisms
The present symposium will introduce four previously either completely unknown or only rudimentary characterized new players in response to loss of sleep.

Chair: T. Porkka-Heiskanen, Finland Speakers: T. Porkka-Heiskanen, Finland; M. Bellesi, Italy; H.-K. Wigren, Finland; K. Wright, United States; D. Skene, Switzerland

Preliminary Scientific Program. All content is subject to change.
Tuesday, October 10

5:30pm – 7:00pm I Meeting Hall IV
S71 Sleep, clocks, and neurodegeneration
This program will focus on the bi-directional relationship between circadian and sleep dysregulation and neurodegenerative disorders including Alzheimer's, Parkinson's and Huntington's Diseases.

Chair: A. Videnovic, United States  
Speakers: A. Videnovic, United States; P. Zee, United States; E. Musiek, United States; J. Morton, United Kingdom

5:30pm – 7:00pm I Meeting Hall V
S72 The duality of sleep movement
The duality phenomenon has clinical, anatomo-histologic, epidemiologic, age distribution, and molecular aspects which will be emphasized by the symposium.

Chairs: J.J. Askenasy, Israel  
Speakers: J.J. Askenasy, Israel; S. Chokroverty, United States; S. Nishino, United States; T. Mano, Japan; R.P. Allen, United States

5:30pm – 7:00pm I Club A and B
S74 Extracting sleep breathing phenotypes from lab and home data
This symposium has a focus on an integrated multi-component approach to phenotyping sleep apnea and associated sleep alterations beyond traditional polysomnographic methods.

Chairs: R.J. Thomas, United States  
Speakers: R.J. Thomas, United States; W. Randerath, Germany; J. Hedner, Sweden; D. Pevernagie, Belgium

5:30pm – 7:00pm I Meeting Hall 1A
S75 Sleep and mental health in a changing society
This symposium provides up to date evidence about the how changing trends in our environment, specifically the workplace, neighborhood and technology affect our sleep and mental health integrating evidence from different contexts.

Chair: N. Glozier, Australia  
Speakers: N. Glozier, Australia; M. Müller, Switzerland; T. Lallukka, Finland; S. Øverland, Norway; G. Simonelli, United States

5:30pm – 7:00pm I Meeting Hall 1B
S76 Sleep, slow waves and brain temperature: Insights from hibernators
In the present symposium, in which we managed to bring together the few research groups that are active in this field, we will try to gain insight into this matter by discussing newly obtained data and analysis within this context.

Chair: R. Amici, Italy  
Speakers: R. Amici, Italy; T. de Boer, The Netherlands; V. Vyazovskiy, United Kingdom; K. Drew, United States; M. Cerri, Italy
Symposia

Wednesday, October 11

9:00am – 10:30am I Meeting Hall IV
S78 Sleep at high altitude
A significant portion of the world's population sleeps at high altitudes and many more travel for short stays at the high altitudes. High altitude appears to affect sleep at least from acute exposure but also, although there is some uncertainty, for those living at high altitudes.

Chair: J. Ulfberg, Sweden
Speakers: J. Ulfberg, Sweden; L. Pham, United States; C.M. Hill, United Kingdom; R. Gupta, India; B. Högl, Austria

9:00am – 10:30am I Meeting Hall V
S79 To network or not during sleep and after sleep loss
The aim of this symposium is to discuss new advancements in our understanding of how cerebral networks are modulated by sleep and after sleep loss.

Chairs: J. Carrier, Canada; J.-M. Lina, Canada
Speakers: J. Carrier, Canada; J.-M. Lina, Canada; U. Olcese, The Netherlands; G. Piantoni, United States; A. Bagshaw, United Kingdom; G. Vandewalle, Belgium

9:00am – 10:30am I Club A and B
S81 Sleep, brain-heart relationships, and sudden death risk
The course will provide a comprehensive update on the mechanistic interaction of sleep and sleep apnea with cardiovascular and brain health and disease and sudden death risk, including myocardial ischemia, stroke, heart failure, sudden cardiac death, sudden unexpected death in epilepsy, and sudden death in infants (SIDS).

Chairs: V. Somers, United States; E. St. Louis, United States
Speakers: V. Somers, United States; V. Somers, United States; A. Chahal, United Kingdom; E. St. Louis, United States; S. Kotagal, United States

9:00am – 10:30am I Club D and E
S82 Animal models for restless legs syndrome: New developments and future challenges
The symposium aims to cover the most recent developments in modeling RLS in animals, while providing basic knowledge of the topic to clinicians as well as scientists.

Chair: A. Salminen, Germany
Speakers: A. Salminen, Germany; Y. Li, United States; G. Uhl, United States; R.P. Allen, United States; M. Manconi, Switzerland

9:00am – 10:30am I Terrace 1
S94 Circadian rhythm sleep-wake disorders and insomnia: What are the consequences and how do we optimize treatment?
In this symposium, we aim to present research on the negative effects of circadian rhythm sleep disorders comorbid with insomnia disorder in various affective, cognitive, and health domains.

Chair: Y.K. Wing, Hong Kong
Speakers: Y.K. Wing, Hong Kong; S. Li, Hong Kong; I.-Y. Yoon, Republic of Korea; S. Suh, Republic of Korea; T. Shochat, Israel; S. Chung, Republic of Korea

Preliminary Scientific Program. All content is subject to change.
Symposia

Wednesday, October 11

10:30am – 12:00pm | Meeting Hall IV
S83 The relationship between sleep, pain, and fatigue following traumatic brain injury: From bench to bedside
This symposium brings together an inter-disciplinary team from three continents to present cutting-edge, translational research concerning the relationship between sleep, pain, fatigue and cognitive impairment following TBI.

**Chair:** D. Zalai, Canada  
**Speakers:** D. Zalai, Canada; D. Noain, Switzerland; S. Khoury, Canada; C. Wiseman-Hakes, Canada; S. Rajaratnam, Australia

10:30am – 12:00pm | Meeting Hall V
S84 Cortical nNOS neurons: A nexus between homeostatic sleep drive and EEG slow wave activity?
Together, these presentations will present the latest results on this unusual neuronal population and their potential role as a link to help understand sleep homeostasis and Borbely’s Process S.

**Chair:** T. Kilduff, United States  
**Speakers:** T. Kilduff, United States; L. Dittrich, Germany; D. Gerashchenko, United States; R. Williams, United States; M. Capogna, Denmark

10:30am – 12:00pm | Club A and B
S86 Vitamin D and sleep
So far, the impact of vit D deficiency in the development and clinical course of different sleep disorders has not been consistently addressed. The possibility of a strong impact on disease by early supplemental therapy should be of relevant interest to most clinicians and researchers.

**Chair:** R. Silvestri, Italy  
**Speakers:** R. Silvestri, Italy; A. Stefani, Austria; Y. Dauvilliers, France; F. Placidi, Italy

12:30pm – 2:00pm | Meeting Hall V
S101 Sleepiness and accidents: A joint symposium by ESRS and WSS
Awareness of sleepiness on the road, in the air, and at sea.

**Chair:** C. Kushida, United States; L. Nobili, Italy  
**Speakers:** T. Akerstedt, Sweden; W. McNicholas, Ireland

2:00pm – 3:30pm | Congress Hall
S87 Phenotyping and genotyping sleep apnea
The symposium covers theoretical background, modern analysis for phenotyping, and practical proposals useful for clinical practice.

**Chair:** T. Penzel, Germany  
**Speakers:** T. Penzel, Germany; A. Pack, United States; P. Cistulli, Australia; U. Magalang, United States; T. Gislason, Iceland

Preliminary Scientific Program. All content is subject to change.
Symposia

Wednesday, October 11

2:00pm – 3:30pm I Meeting Hall IV

S88 Novel biomarkers for sleep insufficiency and sleep disorders
Aim: To highlight recent advances and novel approaches for identifying biomarkers of sleep insufficiency.

Chair: D.-J. Dijk, United Kingdom
Speakers: D.-J. Dijk, United Kingdom; J.J. Gooley, Singapore; T. Porkka-Heiskanen, Finland; L. Kheirandish-Gozal, United States

2:00pm – 3:30pm I Meeting Hall V

S89 Restless legs syndrome, augmentation, and dopamine treatment - clinical data and emerging new models
Restless Legs Syndrome (RLS) is a sensorimotor disorder that heavily affects sleep and sleep quality. While the underlying causes are not fully understood, evidence suggests that genetic disposition may play a role, as well as alterations in iron homeostasis that in turn may alter the dopamine system.

Chair: S. Clemens, United States
Speakers: S. Clemens, United States; W. Paulus, Germany; M. Manconi, Switzerland; S. Clemens, United States; S. Ferré, United States

2:00pm – 3:30pm I Club D and E

S91 Improving insomnia treatments: Less pain, more gain?
The presentations target the following questions: why might treatment need to be refined/reconsidered mechanistically; can you make refinements without compromising efficacy; can we integrate sleep and circadian therapies to better treat the constellation of sleep-wake disturbances that typically characterize those with mental illness; and can you predict for whom treatment might not be ‘working’, prompting early intervention with enhanced therapeutic support.

Chair: C. Morin, Canada
Speakers: C. Morin, Canada; S.D. Kyle, United Kingdom; S. Jernelöv, Sweden; A. Harvey, United States; K. Blom, Sweden

3:30pm – 5:00pm I Congress Hall

S92 Creating a framework for analyses of movement patterns of challenging/disruptive sleep and wake behaviours
In this session, we will present a framework for the use of video recordings of challenging/disruptive sleep/wake behaviours of children/adolescents/adults with neurodevelopmental conditions in clinical assessments and provide a guideline for reviewing and analyzing recordings.

Chair: O. Ipsiroglu, Canada
Speakers: O. Ipsiroglu, Canada; A. Guzzetta, Italy; G. Kloesch, Austria; R. Silvestri, Italy; H. Garn, Austria

3:30pm – 5:00pm I Meeting Hall IV

S93 Infra-slow (< 0.1 Hz) oscillations: from the cell to the clinic
The aim of the present symposium is to provide a broad overview over recent developments in this field.

Chair: S. Fulda, Switzerland
Speakers: S. Fulda, Switzerland; S. Hughes, United Kingdom; A. Lüthi, Switzerland; F. Weber, Germany
Symposia

Wednesday, October 11

3:30pm – 5:00pm I North Hall
S95 Hypertrophic cardiomyopathy and sleep disordered breathing: Implications for atrial arrhythmias and sudden cardiac death
This course will provide a contemporary and comprehensive update on the role of sleep apnea in patients with hypertrophic cardiomyopathy (HCM).

Chairs: V. Somers, United States
Speakers: V. Somers, United States; A. Chahal, United Kingdom; V. Somers, United States; T. Konecny, United States; T. Kara, United States

3:30pm – 5:00pm I Club A and B
S96 Autonomic disorders in sleep medicine
This symposium will review the anatomy of the autonomic and sleep systems, the physiology of autonomic function during normal sleep, and some of the techniques used to measure autonomic function.

Chairs: M. Miglis, United States
Speakers: M. Miglis, United States; P. Cortelli, Italy; C. Lombardi, Italy; G. Calandra Buonaura, Italy; J.A. Palma, United States

3:30pm – 5:00pm I Club H
S33 Sleep and the kidney
The aims of this symposium are to address “both sides of the coin” ie the potential impact of sleep apnea on the kidney and the consequences of kidney failure for sleep and breathing.

Chairs: P. Hanly, Canada
Speakers: P. Hanly, Canada; N. Ayas, Canada; O. Lyons, Canada; M. Novak, Canada

5:30pm – 7:00pm I Congress Hall
S100 The characteristics of type 2 narcolepsy in Asian patients
This symposium includes the metabolic characteristics of Asian type 2 narcolepsy patients through the study of multiple sleep latency test variables, functional imaging studies of children and adolescent narcolepsy patients, and HLA typing, hypocretin levels in the CSF studies.

Chairs: S.-C. Hong, Republic of Korea
Speakers: S.-C. Hong, Republic of Korea; Y. Inoue, Japan; Y.-s. Huang, Taiwan; Y.H. Um, Republic of Korea; F. Han, China

5:30pm – 7:00pm I Meeting Hall V
S97 Sleep and sexual dysfunction
The symposium will also discuss the influence of sleep disturbance and OSA on sexual and reproductive function, based on the data from prospective and animal studies. Finally, the symposium will discuss the beneficial effect of CPAP treatment for OSA patients on erectile or sexual function.

Chairs: H.-W. Shin, Republic of Korea
Speakers: H.-W. Shin, Republic of Korea; K. Melehan, Australia; M. Levy Andersen, Brazil; C. Hoyos, Australia
Monday, October 9

9:00am – 10:30am I Terrace 1
S09 Physiological responses of oromaxillofacial anatomy in obstructive sleep apneics undergoing maxillomandibular advancement (MMA)
In the symposium, Dr. Dennis CY Ho will demonstrate the differences between conventional MMA and MMA with counterclockwise rotation of maxillomandibular complex.

Chair: C.C.-H. Lin, Taiwan Speakers: C.C.-H. Lin, Taiwan; D.C. Ho, Taiwan; V. Pandit, India; R. Sasaki, Japan; E.C. Chan, Hong Kong

10:30am – 12:00pm I Terrace 1
S16 Nasal obstruction and its role in sleep disordered breathing
We formally introduce Distraction Osteogenesis Maxillary Expansion (DOME) for adults with OSA, a minimally invasive surgical-orthodontic procedure that addresses maxillary transverse deficiency with simultaneous increase in nasal cavity volume.

Chair: C. Torre, United States Speakers: C. Torre, United States; S. Quo, United States; A. Yoon, United States; S. Liu, United States

2:00pm – 3:30pm I Terrace 1
S24 Personalization of mandibular advancement devices: Digital analysis of the movements achieved and mathematical model for the study of the jaw Kinematics.
Combining the recent development of techniques to measure the underlying physiology causing an individual’s OSA using routine clinical information, and the study of the personal anatomical characteristics and physiological movements, will enable progress toward individualizing MADs therapy for patients with OSA.

Chair: A. Ferre, Spain Speakers: A. Ferre, Spain; P. Mayoral, Spain; F. Milano, Italy; J. Vila, Spain; A. Bataller, Spain

5:30pm – 7:00pm I Terrace 1
S39 Obstructive sleep apnea severity and the role of oral appliances
Oral appliances have become a common alternative for the many patients with OSA, which strengthens the need for continuous updating of knowledge about various aspects of this therapy. This symposium will provide the most recent knowledge about OAs in the treatment of OSA of various severity.

Chair: M. Braem, Belgium Speakers: M. Braem, Belgium; W. McNicholas, Ireland; B. Edwards, Australia; M. Braem, Belgium; P. Cistulli, Australia
Tuesday, October 10

9:00am – 10:30am I Terrace 1
S48 NON-PAP treatment of Obstructive-sleep-apnea in late teen-agers and early adulthood: What can be done, orthodontia and surgery?
Late teen-agers and young adults are non-compliant with nasal CPAP, except for subjects with enlarged adenotonsils or important septum deviation, soft tissue surgery has not been a successful long-term treatment approach. What can be offered to this age-group of patients?

Chairs: C. Guilleminault, United States; P. Pirelli, Italy
Speakers: C. Guilleminault, United States; M. Marklund, Sweden; B. Vande Vannet, Belgium; T. Loncle, France; S. Liu, United States; P. Pirelli, Italy

10:30am – 12:00pm I Terrace 1
S55 OSA treatment in adult [men and women] non compliant with nasal PAP, indication and potential treatment: surgical approaches and nerve implantation
Surgical implantation of hypoglossal nerve is very much considered in different places and fairly short term results are available; but transcutaneous stimulation, a less invasive technique that has been rule-out before is again a potential option.

Chairs: C.C.-H. Lin, Taiwan; S.-W. Kim, Republic of Korea
Speakers: C.C.-H. Lin, Taiwan; S.S. Hsu, Taiwan; J. Cifuentes, Chile; J. Maurer, Germany; M. Boon, United States; J. Steier, United Kingdom; S.-W. Kim, Republic of Korea

2:00pm – 3:30pm I Terrace 1
S63 OSA, Upper-airway surgery and MAD: techniques to select location, surgical techniques to be used, personalization of mandibular-advancement-device
Upper-airway surgery and usage of mandibular advancement devices are approaches very much considered in treatment of OSA.

Chairs: N. Montesdeoca, Spain; C.C.-H. Lin, Taiwan
Speakers: N. Montesdeoca, Spain; S.-W. Kim, Republic of Korea; P.V. Krishnan, India; P. Baptista, Spain; J. Vila, Spain; C.C.-H. Lin, Taiwan
Pediatric Symposia

Monday, October 9

9:00am – 10:30am I North Hall
S04 The importance of sleep in children around the world: Factors which affect outcomes
The presentation will examine how sleep problems might influence learning in this context and will discuss factors that affect sleep in children in these diverse New Zealand population groups and consider child, parent and school teacher perspectives of child sleep in this context.

**Chair:** R. Horne, Australia  
**Speakers:** R. Horne, Australia; D. Elder, New Zealand; C.M. Hill, United Kingdom; A. Li, Hong Kong

10:30am – 12:00pm I North Hall
S12 The interplay between sleep and academic performance: From neural mechanisms To educational policy
We will extract practical and clinical implications that could be used to guide researchers, educators and policy makers in planning how to move this created knowledge into effective action in educational settings.

**Chair:** R. Gruber, Canada  
**Speakers:** R. Gruber, Canada; E. De Bruin, The Netherlands; J.J. Gooley, Singapore; S. Fogel, Canada; J. Owens, United States

2:00pm – 3:30pm I North Hall
S19 Sleep disorders in the adolescent population: The missing link
The symposium will bridge the gap between management of children versus adults.

**Chairs:** S. Weiss, Canada; S. Kothare, United States  
**Speakers:** S. Weiss, Canada; S. Kothare, United States; D.K.-K. Ng, Hong Kong; O. Bruni, Italy; G. Shukla, India; S. Kothare, United States

5:30pm – 7:00pm I North Hall
S34 Pediatric OSA: diagnostic and treatments involving a multidisciplinary team
The symposium involving a multidisciplinary team will demonstrate how understanding of the development of the oral-facial region that host the upper-airway, allows to perform appropriate clinical investigation of risks-factors increasing collapsibility of the upper-airway during sleep, and how new treatment avenues are able to modify these risk-factors.

**Chairs:** C. Guilleminault, United States  
**Speakers:** C. Guilleminault, United States; A. Yoon, United States; S. Quo, United States; Y.-s. Huang, Taiwan
Pediatric Symposia

Tuesday, October 10

9:00am – 10:30am | North Hall
S43 Sleep related learning and behavioural functioning in children with developmental disorders
The current studies in the symposium aim to address these issues and examine sleep specific learning and behavioural patterns.

Chair: D. Dimitriou, United Kingdom  
Speakers: D. Dimitriou, United Kingdom; A. Joyce, United Kingdom; F. Knight, United Kingdom; J. Hayton, United Kingdom

10:30am – 12:00pm | North Hall
S51 Diagnosis, morbidity and treatment of pediatric OSA: What’s new?
Pediatric obstructive sleep apnea syndrome (OSAS) has become a major public health diagnostic entity not only because of its relatively high prevalence, but particularly because of the increased risk for cognitive and behavioral deficits associated with OSAS.

Chair: D. Gozal, United States; L. Kheirandish-Gozal, United States  
Speakers: D. Gozal, United States; H.-L. Tan, United Kingdom; M.L. Alonso-Alvarez, Spain; L. Kheirandish-Gozal, United States

2:00pm – 3:30pm | North Hall
S59 Developmental aspects of sleep’s influence on memory and general cognitive abilities
The aim of this symposium is to discuss the current state of knowledge on developmental aspects of the role of sleep in memory consolidation as well as in general cognitive abilities and learning efficiency.

Chair: K. Hoedlmoser, Austria; O. Bruni, Italy  
Speakers: K. Hoedlmoser, Austria; I. Wilhem, Switzerland; R. Spencer, United States; L. Tarokh, Switzerland; O. Bruni, Italy

3:30pm – 5:00pm | North Hall
S66 Deficient sleep in children and adolescents: generating solutions for a global epidemic
This symposium will include an overview of the genesis of insufficient sleep in the pediatric population and then will specifically focus on some of the more innovative strategies currently being developed that are potentially applicable across a wide variety of audiences and cultures.

Chair: J. Owens, United States  
Speakers: J. Owens, United States; Y.K. Wing, Hong Kong; R. Gruber, Canada; M. Quante, Germany; C. Espie, United Kingdom

5:30pm – 7:00pm | North Hall
S73 Practical aspect of pediatric sleep medicine
This symposium will provide an updated view of some key features of sleep disordered breathing in children and adolescents.

Speakers: A. Salvatoni, Italy; H. Sawnani, United States; N. Simakajornboon, United States; M. Oros, Romania; A. Lupusor, Republic of Moldova

Preliminary Scientific Program. All content is subject to change.
Pediatric Symposia

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Preliminary Scientific Program. All content is subject to change.
Pediatric Symposia

Wednesday, October 11

9:00am – 10:30am I North Hall
S80 Sleep during early stage of life affects long-term outcomes
This symposium is a clinical portion to prove a part of hypothesis that sleep during early stages of life affects long-term outcomes via prefrontal cortex, and participants can deepen their understanding of sleep from aspects of child, development, social viewpoints and also from an aspect of basic brain science on sleep.

Chair: J. Kohyama, Japan
Speakers: J. Kohyama, Japan; Y. Kelly, United Kingdom; M. Sekine, Japan; J.A. Mindell, United States

10:30am – 12:00pm I North Hall
S85 Suicide, sleep and circadian rhythms in adolescents
This symposium aims to focus on recent discoveries and advances in this area and how these relate to sleep, mood and suicide.

Chair: C.M. Shapiro, Canada
Speakers: C.M. Shapiro, Canada; Y.J. Lee, Republic of Korea; J.J. Gooley, Singapore; E.Y.Y. Lau, Hong Kong; A. Shahid, Canada

2:00pm – 3:30pm I North Hall
S90 Sleep across cultures in young children from around the world
This symposium is aimed at evaluating the sleep cultures in young children across the world.

Chair: D. Goh, Singapore
Speakers: D. Goh, Singapore; J.A. Mindell, United States; A. Bartle, New Zealand; A. Li, Hong Kong

5:30pm – 7:00pm I North Hall
S98 Sleep and interventions in children and young people with autism spectrum disorder
Sleep problems are highly prevalent among children and young people with autism spectrum disorder (ASD). Such problems can include delayed sleep onset latency, frequent and/or prolonged night-time awakenings, and co-sleeping.

Chair: N. Blampied, New Zealand
Speakers: N. Blampied, New Zealand; A. Richdale, Australia; S. Jin, United States; L. McLay, New Zealand; K. France, New Zealand

Preliminary Scientific Program. All content is subject to change.
Oral Abstracts

Monday, October 9

O1  10:30am – 12:00pm I Club D and E
Sleep breathing disorders oral abstract presentations

O2  10:30am – 12:00pm I Club H
Insomnia oral abstract presentations
• Short and Long Term Prolonged Release Melatonin Treatment For Sleep Disorders In Children With Autism Spectrum Disorders –Results Of A Phase III Randomized Clinical Trial
• Young Women with Short Sleep Duration and Insomnia Run a High Risk of Developing Hypertension and Diabetes Mellitus. A 10-year Follow-up of the Population-based SHE Study
• Hyperactivity of the orexin system and chronic insomnia in a mouse model of alcohol dependence

O3  2:00pm – 3:30pm I Meeting Hall V
Other sleep disorders oral abstract presentations
• Effects of Morphine on the Phenotypic Causes of Obstructive Sleep Apnea.
• Shared-decision making tool for obstructive sleep apnea

O4  3:30pm – 5:00pm I Club D and E
Sleep breathing disorders oral abstract presentations

O5  3:30pm – 5:00pm I Terrace 1
Psychiatric disorders affecting sleep/wake oral abstract presentations

O6  3:30pm – 5:00pm I Club H
Neural plasticity, excessive daytime sleepiness (not Narcolepsy), memory, parasomnia, and pharmacology oral abstract presentations
• Obstructive Sleep Apnea as a Potential Effect of Gabapentin in Older Men

O7  5:30pm – 7:00pm I Meeting Hall V
Narcolepsy oral abstract presentations
• Evidence for a narcolepsy spectrum disorder in family members of patients with Type 1 narcolepsy
• Measurement of Narcolepsy Symptoms: the Narcolepsy Severity Scale

Tuesday, October 10

O8  10:30am - 12:00pm I Club D and E
REM behavior disorders oral abstract presentations
• Familial aggregation of REM sleep behavior disorder and neurodegenerative biomarkers: A case-control family study

O9  10:30am - 12:00pm I Club H
Sleep breathing disorders oral abstract presentations

O10 2:00pm - 3:30pm I Club D and E
Restless legs syndrome (RLS/WED) oral abstract presentations
Oral Abstracts

Tuesday, October 10

O11 10:30am – 12:00pm I Club D and E
Sleep breathing disorders oral abstract presentations
  • Real-time Identification of Upper Airway Occlusion using Electrical Impedance Tomography in Patients with Obstructive Sleep Apnea
  • Validation of Three-dimensional Airway Imaging for Screening for Sleep Apnea in Pediatric Patients

O12 3:30pm – 5:00pm I Terrace 1
Behavior, cognition and dreaming and neurological sleep disorders affecting sleep oral abstract presentations
  • REM sleep as a predictor of seizure recurrence in genetic generalized epilepsy: A prospective study
  • Disrupting diurnal cycling of NAD+-dependent Sirtuin 1 deacetylase activity with genotoxic stress or changing light/dark cycles increases susceptibility to mammary carcinogenesis by uncoupling DNA damage response and repair genes from circadian control.

O13 3:30pm – 5:00pm I Club H
Basic research oral abstract presentations
  • On the effects of two versions of slow wave sleep deprivation in the relation to REM sleep

O14 3:30pm – 5:00pm I Terrace 1
Sleep breathing disorders oral abstract presentations

Wednesday, October 11

O15 10:30am – 12:00pm I Club D and E
Chronobiology/Circadian Disorders Oral Abstract Presentations

O16 10:30pm – 12:00pm I Terrace 1
Sleep wakening disorders oral abstract presentations

O17 10:30am – 12:00pm I Club H
Other sleep disorders oral abstract presentations

O18 2:00pm - 3:30pm I Club A and B
Technology and technical oral abstract presentations

O19 2:00am - 3:30pm I Terrace 1
Sleep breathing disorders oral abstract presentations
  • The Association Between Obstructive Sleep Apnea and Alzheimer’s Disease: A Meta-Analysis Perspective
  • Whether tonsillectomy is necessary to pediatric OSA with small tonsils? Drug induced sleep endoscopy can tell

O21 2:00pm - 3:30pm I Meeting Hall V
Insomnia oral abstract presentations
  • Familial aggregation of REM sleep behavior disorder and neurodegenerative biomarkers: A case-control family study
Oral Abstracts

Wednesday, October 11

O20  3:30pm – 5:00pm I Club D and E
Basic research oral abstract presentations

O22  3:30pm – 5:00pm I Terrace 1
Restless legs syndrome (RLS/WED) oral abstract presentations

O22  3:30pm – 5:00pm I Club H
Basic research oral abstract presentations

O23  5:30pm – 7:00pm I Terrace 1
Sleep breathing disorders oral abstract presentations

Networking Opportunities

World Sleep 2017 is bringing the best research and education in sleep medicine to Prague. It is also bringing the bright minds behind the science together. Plan to partake in networking events while attending congress to meet some of the names behind the research. Cost to attend events is included in the registration fee unless otherwise stated. Please make sure to wear your badge to non-ticketed events.

Opening Ceremony
Sunday, October 8, 2017: The Opening Ceremony of World Sleep 2017 will take place in the beautiful Municipal House located in the heart of Prague. This Art Nouveau treasure dominates the site of the former Royal Court. The ceremony will feature award presentations and classic Czech music played by a 65-piece orchestra. We expect over 1,000 delegates to attend this historic opening ceremony of the first joint congress of World Association of Sleep Medicine (WASM) and World Sleep Federation (WSF).

Taste of the World Reception
Sunday, October 8, 2017: Taste of the World reception will take place before and after the Opening Ceremony. This networking opportunity will feature foods and beverages from around the globe.

Gala Dinner
Monday, October 9, 2017: The President’s Dinner will feature entertainment, dinner, and beverages. *A ticket will need to be purchased to attend

Networking Lounge
Monday, October 9-Wednesday, October 11: The Networking Lounge is a place where delegates and sponsors alike are able to relax and have a good conversation. The lounge includes tables and seating.

Coffee Breaks
Monday, October 9-Wednesday, October 11: Take a break from the exhibits and stop in for a cup of coffee. Available during exhibition hours.

Affiliate Meetings
Monday, October 9-Wednesday, October 11: Join colleagues with similar research. Specialty groups are able to meet for up to a half day without cost. Does your sleep research group want to meet before or during the congress? Complete the Affiliate Meeting Request Form.

Poster Sessions
Monday, October 9-Wednesday, October 11: View young investigator and different abstracts each day during poster sessions.

Closing Ceremony
Wednesday, October 11: The Closing Ceremony will be at the main event venue, Prague Congress Centre. All participants and exhibitors are invited to join. Before leaving, enjoy discussing the latest science and research you discovered at World Sleep 2017.
Affiliate Meetings

Saturday, October 7

8:00am – 11:00pm I Room IV
14th Czech-Slovak and 19th Congress of the Czech Society for Sleep Research and Sleep Medicine

Registration 8:00am – 9:00am
World Sleep - Czech Sleep Societies Symposium: 9:00am – 10:30am
The significance of periodic and non-periodic limb movements during sleep - L. Ferini-Strambi, Italy
Actigraphy and periodic limb movements - D. Kemlink, Czech Republic
Idiopathic REM sleep behavior in Parkinson disease? - A. Iranzo, Spain
Rhythmic movement disorder - I. Příhodová, Czech Republic

Coffee + Posters 10:30am – 11:00am
Sleep in neurological diseases 11:00am – 12:00pm
Sleep disordered breathing and cardio-metabolic diseases 12:00pm – 1:00pm
Lunch 1:00pm – 2:00pm
Diagnosis and Treatment of Sleep Disordered Breathing 2:00pm – 5:30pm
Plenary meeting of the Czech Sleep Society 4:00pm – 5:00pm
Coffee + Posters 5:00pm – 5:30pm
Industry sponsored symposium 5:30pm – 6:30pm
Break 6:30pm – 8:00pm
Dinner (Restaurant Mlýnec, Novotného lávka 199/9, 110 00 Praha 1) 8:00pm – 11:00pm

8:00am – 5:30pm I North Hall
International RLS Study Group: RLS is not just leg kicking
This year’s educational program will introduce new and expanded data on RLS and limb movements. Several presentations will discuss the association of weight and RLS with and without PLMS. Recent data from imaging studies contribute to the understanding of the pathophysiology of RLS. More presentations will debate the unequivocal association of sleep related limb movements and RLS. Clinical aspects of RLS in adults and children will be reviewed. Finally, treatment conundrums will be discussed. New this year, we will present opportunities for international collaboration.

Chair: D. Garcia-Borreguero, Spain Speakers: K. Sonka, Czech Republic; X. Gao, United States; F. Provini, Italy; M. Manconi, Switzerland; K.Y. Jung, Republic of Korea; Y.W. Cho, Republic of Korea; R.P. Allen, United States; R. Ferri, Italy; S. Fulda, Switzerland; A. Iranzo, Spain; D. Kemlink, Czech Republic; A. Walters, United States; C. Trenkwalder, Germany; D. Garcia-Borreguero, Spain; J. Winkelmann, Germany

Wednesday, October 11

Wednesday, October 11 – Friday, October 13
11th International REM Sleep Behavior Disorder Study Group Meeting

Wednesday, October 11
Check-in, welcome dinner

Thursday, October 12
Scientific programme – whole day
Evening social event

Friday, October 13
Scientific programme – half day

Chairs: Karel Šonka, MD, DSc.; Hana Kaštánková, ing.

Preliminary Scientific Program. All content is subject to change.
Delegate Registration

Registration includes Sunday evening’s Opening Ceremony through Wednesday’s closing ceremony. Scientific sessions include 16 keynotes, 100+ symposia, entrance to exhibit hall and select networking events. Technologist registration includes the above as well as all-day Sunday technologist program plus access to the main scientific content.

World Sleep 2017 Congress Registration Cost (in US dollars)

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Affiliate Meetings May Change Additional Registration Fees

Associate Society Member Discount
World Sleep Society offers a $10-OFF coupon code for current members of associates societies to become individual members of WSS. (See full list of Associate Society Members.) Since the nonmember rate to attend World Sleep 2017 is $450, by becoming a member with the coupon code and registering at the member rate, Associate Society Members can save a total of $80 on congress registration. See your society’s administrator for coupon code.

Registration Cancellation Policy
• Full refund only available if cancellation is made on or before July 15, 2017
• Partial refund available for cancellations made between July 16, 2017 and August 31, 2017 (a $50 administration fee will be withheld, remaining balance will be returned)
• No refund available for cancellations made after August 31, 2017

Honoraria & Reimbursement
World Sleep Society does not provide honoraria to academic planners, committee members, co-chairs, or speakers. No individual involved in a CME activity may receive payments directly from a commercial interest, including honoraria, travel, out-of-pocket expenses or other payments. Read World Sleep Society’s Honoraria and Reimbursement Policy for more details.
WorldSleep 2019

SEPTEMBER 20-25, 2019 • VANCOUVER, CANADA

A JOINT CONGRESS OF WORLD ASSOCIATION OF SLEEP MEDICINE AND WORLD SLEEP FEDERATION