FINAL PROGRAM

KEYNOTE LECTURE: H. CRAIG HELLER, PHD
Interactions between Sleep and Circadian Rhythms in Health and Disease

37 INVITED LECTURERS
49 SCIENTIFIC PROGRAM
95 EXHIBITORS

DOWNLOAD OUR SLEEP 2017 MOBILE APP
Available for IOS and Android
SILENOR® is indicated for the treatment of insomnia characterized by difficulty with sleep maintenance.

**IMPORTANT SAFETY INFORMATION**

SILENOR® is contraindicated in individuals who have shown hypersensitivity to doxepin HCl, any of its inactive ingredients, or other dibenzoxepines. Serious side effects and even death have been reported following the concomitant use of certain drugs with MAO inhibitors (MAOIs). Do not administer SILENOR® if patient is currently on MAOIs or has used MAOIs within the past two weeks. The exact length of time may vary depending on the particular MAOI dosage and duration of treatment.

SILENOR® is contraindicated in individuals with untreated narrow angle glaucoma or severe urinary retention.

The failure of insomnia to remit after 7 to 10 days of treatment may indicate the presence of a primary psychiatric and/or medical illness that should be evaluated.

Complex behaviors such as “sleep-driving” (i.e., driving while not fully awake after ingestion of a hypnotic, with amnesia for the event) have been reported with hypnotics. These events can occur in hypnotic-naive as well as in hypnotic-experienced persons. Although behaviors such as “sleep-driving” may occur with hypnotics alone at therapeutic doses, the use of alcohol or other central nervous system depressants with hypnotics appears to increase the risk of such behaviors, as does the use of hypnotics at doses exceeding the maximum recommended dose. Due to the risk to the patient and the community, discontinuation of SILENOR® should be strongly considered for patients who report a “sleep-driving” episode. Other complex behaviors (i.e., preparing and eating food, making phone calls, or having sex) have been reported in patients who are not fully awake after taking a hypnotic. As with “sleep-driving”, patients usually do not remember these events.

Amnesia, anxiety and other neuro-psychiatric symptoms may occur unpredictably.

Patients should not consume alcohol with SILENOR®. Patients should be cautioned about potential additive effects of SILENOR® used in combination with CNS depressants or sedating antihistamines.

In primarily depressed patients, worsening of depression, including suicidal thoughts and actions (including completed suicides), has been reported in association with the use of hypnotics. Doxepin, the active ingredient in SILENOR®, is an antidepressant at doses 10- to 100-fold higher than in SILENOR®. Antidepressants increased the risk compared to placebo of suicidal thinking and behavior in children, adolescents, and young adults in short-term studies of major depressive disorder (MDD) and other psychiatric disorders. Risk from the lower dose of doxepin in SILENOR® can not be excluded.

Patients should not take SILENOR® unless they are prepared to get a full night’s sleep. After taking SILENOR®, patients should con ne their activities to those necessary to prepare for bed. Patients should avoid engaging in hazardous activities, such as operating a motor vehicle or heavy machinery, at night after taking SILENOR®, and should be cautioned about potential impairment in the performance of such activities that may occur the day following ingestion.

For faster onset and to minimize the potential for next day effects, SILENOR® should not be taken within 3 hours of a meal.

In clinical trials, the most common treatment-emergent adverse reaction was somnolence/sedation. SILENOR® has not been studied in pregnant women. SILENOR® is excreted in human milk after oral administration. SILENOR® is not approved for use in children.

Please see full Prescribing Information available at our booth.
The Program Committee is confident that this year’s meeting will provide you with access to the latest advances in the fields of sleep medicine and sleep research while also allowing ample time for you to network with colleagues old and new.

We are again fostering a “meeting within a meeting” feel by laying out specific tracks to better allow you to network with your colleagues and find the sessions specifically geared towards your clinical or research interests. Look for the color coding throughout the SLEEP 2017 Final Program to indicate the track.

SLEEP 2017 offers a host of programs designed specifically to appeal to clinicians and researchers: a full slate of didactic postgraduate courses and more than 90 interactive and in-depth sessions. Conversations with Experts sessions give you the opportunity to further engage with the invited lecturers.

Additionally, more than 1,200 abstracts will be presented in oral and poster formats. The posters will be presented starting on Sunday, June 4th and receptions will be offered on Sunday, Monday and Tuesday evenings for poster viewing. More details about these sessions are included in SLEEP 2017 mobile app, which is your essential resource for navigating the meeting.

The SLEEP 2017 mobile app is available on the iOS and Android platforms. This app and complimentary internet access in session rooms is made possible by Vanda Pharmaceuticals.

We also invite you to network using social media, attend the SRS Club Hypnos reception, or stop by the AASM Learning Lounge in room 200. The AASM and SRS are each hosting general membership meetings to provide members with the opportunity to learn about the societies’ latest initiatives and how to get involved. Information about all of these items is available in this program. The exhibit hall features the latest products and services available in sleep medicine from more than 130 companies. This is the place to learn about the technologies and advances in the industry.

With changes and developments occurring in sleep medicine and research every day, it is important that clinicians and researchers are provided the opportunity to meet, interact and share their experiences and discuss the issues of greatest importance to the field. It is the hope of the APSS Program Committee that you enjoy your experience at SLEEP 2017 and are able to both renew and initiate relationships with colleagues from around the world. Through these relationships, we can mold the future of sleep. Enjoy the meeting.

Sincerely,
Glen Greenough, MD
Chair, APSS Program Committee
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PROGRAM COMMITTEE

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Jerome Barrett, Executive Director

Jerome Barrett, Executive Director
SLEEP is the premier world forum to present and discuss the latest developments in clinical sleep medicine and sleep and circadian science.

**EDUCATIONAL OPPORTUNITIES**

**C POSTGRADUATE COURSES** Intensive reviews of topics presented in a half-day or full-day session format prior to the scientific program.

**B BENCH-TO-BEDSIDE INTEGRATED SESSIONS** Two-hour sessions focusing on the latest advances in translational science and clinical applications on a specific topic.

**D DISCUSSION GROUPS** Forums for informal presentations of a specific topic, which may include discussions on controversial subjects or pro/con discussions and presentations.

**E CONVERSATIONS WITH EXPERTS** Small-group lunch sessions during which invited lecturers lead an informal discussion on a single topic. Lunch is not provided.

**F RAPID-FIRE SYMPOSIA** Fast-paced, two-hour sessions led by junior-level investigators/clinicians focusing on the latest data and ideas in the field.

**I INVITED LECTURES** One-hour lectures during which senior-level investigators/clinicians present in their areas of expertise.

**L LUNCH DEBATES** Large-group lunch sessions during which two experts in the field debate on a single topic. Lunch is provided.

**M MEET THE PROFESSORS** Small-group lunch sessions during which an expert in the field leads an informal discussion on a single topic. Lunch is provided.

**O ORAL PRESENTATIONS** 15-minute presentations during which investigators present their latest research and new ideas in the field.

**P POSTER PRESENTATIONS** Visual representations of the latest research and new ideas in the field.

**R BROWN BAG REPORT SESSIONS** Review of challenging cases by an expert panel. Lunch is not provided.

**S SYMPOSIA** Two-hour sessions focusing on the latest data and ideas in the field.

**W CLINICAL WORKSHOPS** Reviews of patient-related and business-related aspects of sleep centers. Workshops address difficult clinical situations, business challenges and trends that clinicians experience in their daily practices.

**PROVIDING**

evidence-based education to advance the science and clinical practice of sleep medicine

**DISSEMINATING**
cutting-edge sleep and circadian research

**PROMOTING**
the translation of basic science into clinical practice

**FOSTERING**
the future of the field by providing career development opportunities at all levels
**Guest Passes**

A registered attendee may elect to buy a guest pass. Guest passes are for family members only and allow entrance to the exhibit hall and industry sponsored events only. Guests must be 12 years of age in order to enter the exhibit hall. Guests are not permitted to attend any of the general or ticketed sessions.

**Badge Identification**

All meeting participants and guests must wear a badge. Badges allow entrance to the scientific sessions and SLEEP 2017 exhibit hall. Your cooperation with this policy is appreciated.

Bins for collecting badge holders will be located in the convention center for you to recycle your badge holder.

**Exhibit Hall**

The SLEEP 2017 exhibit hall showcases booth displays of pharmaceutical companies, equipment manufacturers, medical publishers and software companies. You must be at least 12 years of age to enter the exhibit hall.

*Only children 12 or older are permitted in the exhibit hall, poster sessions and in session rooms. No strollers are permitted in the exhibit hall, poster sessions or session rooms.*

**Exhibit Hall Hours**

Mon., June 5 ............ 10:00am – 4:00pm  
Tues., June 6 ............ 10:00am – 4:00pm  
Wed., June 7 ............ 10:00am – 1:30pm

**Speaker Ready Room**

Speakers participating in Oral Presentations, Bench to Bedside sessions, Brown Bag Reports, Invited Lectures, Symposia and Rapid-Fire Symposia, Discussion Groups, Postgraduate Courses, Lunch Debate sessions and Clinical Workshops are required to use the Speaker Ready Room to upload their PowerPoint presentations onto a central server. The Speaker Ready Room is located in Room 207 at the Hynes Convention Center. Speakers must upload their presentations 24 hours in advance of their scheduled session time. Technicians will be available to provide assistance.

**Speaker Ready Room hours**

Fri., June 2 ............. 4:30pm – 6:00pm  
Sat., June 3 ............. 6:30am – 5:30pm  
Sun., June 4 ............ 6:30am – 5:30pm  
Mon., June 5 ........... 6:30am – 5:30pm  
Tues., June 6 .......... 7:30am – 5:00pm  
Wed., June 7 .......... 7:30am – 5:00pm

**Job Boards**

Current job opportunities may be posted in the job boards located near the Society Booth. Postings are restricted to 8.5” x 11” in size and will be removed if they are deemed inappropriate. The APSS assumes no responsibility for these postings.

**Conversations with Experts**

Seating is first-come, first-served.

Get your questions answered by some of the most prominent names in the field of sleep and circadian science in these small-group sessions. Lunch will not be provided.

Tickets are required for entry to Postgraduate Courses, Meet the Professor sessions and Lunch Debate sessions. Tickets for sessions that are not sold out are available for on-site purchase at registration.

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**General Info**

**Location**

Hynes Convention Center  
900 Boylston St.  
Boston, MA 02115  
Phone: (617) 954-2000

**Headquarter Hotel**

Sheraton Boston Hotel

**On-Site Registration Hours**

Fri., June 2 .............. 4:30pm – 6:00pm*  
Sat., June 3 ............. 6:30am – 5:30pm  
Sun., June 4 ............ 6:30am – 5:30pm  
Mon., June 5 .......... 6:30am – 5:30pm  
Tues., June 6 .......... 7:30am – 5:00pm  
Wed., June 7 .......... 7:30am – 5:00pm  

*Registration on Friday is only for pre-registered attendees.
PRESS ROOM

Members of the press are encouraged to utilize the press room in Room 207, operating during meeting registration hours from Sunday, June 4 at 12:00pm through Wednesday, June 7 at 12:00pm. The press room contains resources to assist reporters with their stories, including press releases highlighting research being presented at the meeting.

SOCIETY BOOTH

Details about membership and products from the American Academy of Sleep Medicine, Sleep Research Society, American Academy of Dental Sleep Medicine and American Association of Sleep Technologists are available at the Society Booth located on the third floor of the Hynes Convention Center.

PHOTOGRAPHY/RECORDING POLICY

Photography and/or recording of any kind, other than by the APSS or registered press approved by the APSS, of sessions, speakers and the exhibit hall is prohibited. No cameras or recording devices will be allowed on the exhibit floor or in the meeting rooms at any time. Violation of this rule could result in removal from the Hynes Convention Center and the confiscation of the film or recording device.

SEATING

Open-seating sessions are filled on a first-come, first-served basis. The APSS does its best to match room size with anticipated demand; however, interest in a topic occasionally exceeds seating capacity. Seating limits are strictly enforced by the Fire Marshal. We encourage you to arrive at meeting rooms as early as possible for best seating.

SLEEP 2017 ABSTRACT SUPPLEMENT

All abstracts from SLEEP 2017 are published in an online abstract supplement of the journal SLEEP. To view these abstracts, visit www.sleepmeeting.org/attendees/abstract-supplement.

COMMENORATIVE POSTERS

Posters commemorating SLEEP 2017 are available on a first-come, first served basis to full meeting registrants. Posters are limited to one per person while supplies last. Pick up your poster at the Society Booth.

CLAIM CREDIT

To claim credit* from the meeting, visit www.sleepmeeting.org/credits. The deadline to claim credit is October 1, 2017. *Continuing education credits must be purchased at the registration desk. See registration desk for additional information.

SLEEP TRAIL 2017

Win a curved TV! More info on page 18.

WE WANT YOUR FEEDBACK

Evaluate Sessions

All attendees are requested to evaluate each session they attend throughout the conference.

HOW TO

Option 1
Visit sleepmeeting.org/evaluations

Option 2
Download the SLEEP 2017 app

You can rate the sessions at any time during the meeting. The feedback options will close on July 1, 2017. The sole purpose of this feedback is to evaluate speakers and sessions that you attend during SLEEP 2017. The Program Committee will use this information to plan future events.
SPECIALS AVAILABLE AT THE SOCIETY BOOTH

15% OFF AASM & SRS products*!
Get the lowest price on products by purchasing at SLEEP 2017!

BYOB
Build Your Own Bundle!
Customize AASM Product Bundles only in Boston to meet your wants and needs!

*Does not include BYOB promotion
MANAGEMENT OF NARCOLEPSY AND EXCESSIVE DAYTIME SLEEPINESS IN OBSTRUCTIVE SLEEP APNEA:
KEYS TO SUCCESSFUL OUTCOMES

FACULTY

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La Jolla, California

PATRICK STROLLO JR., MD
Professor of Medicine and Clinical and Translational Science
University of Pittsburgh School of Medicine
Pittsburgh, Pennsylvania

AGENDA

6:45 pm  Introduction
6:50 pm  Narcolepsy: Diagnosis and Treatment
          Richard Bogan, MD
7:10 pm  Excessive Daytime Sleepiness
          in Obstructive Sleep Apnea
          Patrick Strollo Jr., MD
7:30 pm  Case Presentation #1
          Atul Malhotra, MD
7:45 pm  Case Presentation #2
          Suresh Kotagal, MBBS
8:00 pm  Overcoming Barriers: An Expert Roundtable
          Issue #1: Excessive government/insurance company involvement in clinician management decisions for patient care
          Issue #2: Patient nonadherence to recommended lifestyle changes
          Issue #3: Psychosocial issues of narcolepsy patients after drug optimization
          Issue #4: Patient nonadherence to CPAP
8:30 pm  Question and Answer
8:45 pm  Conclusion of Program
Connect to Wi-Fi

1. Go to Settings on your mobile device
2. Select the Wi-Fi option.
3. Click on the Wi-Fi network: HETLIOZ24
   (No password required.)

Download our app

Bring SLEEP 2017 to your fingertips and navigate the meeting like never before!
View poster listings and vote for the daily People’s Choice award!

Available for iPhone and Android devices

Socialize

Use #SLEEP2017
How do you sleep?

See how your sleep compares to others

Visit Booth 2722
The Commonwealth of Massachusetts

“...I, Charles D. Baker, Governor of the Commonwealth of Massachusetts, do hereby proclaim June 4th – June 10th, 2017, to be, HEALTHY SLEEP AWARENESS WEEK”
The American Academy of Sleep Medicine & Sleep Research Society honor

MARK R. ROSEKIND, PHD

His commitment and dedication helped improve transportation safety, reduce fatigue-related accidents and promote evidence-based policy while leading the National Transportation Safety Board from 2010 to 2014 and the National Highway Traffic Safety Administration from 2014 to 2017. He will be recognized during the SLEEP 2017 plenary session on Monday, June 5.

Dr. Rosekind is a passionate safety professional with more than 30 years of experience promoting innovation through science and leadership in complex environments.

He was appointed by President Obama to be the 15th Administrator of the National Highway Traffic Safety Administration (NHTSA). Serving from 2014 to 2017, he led significant transformation, instilling a proactive safety culture while driving both the Agency and automobile industry to be future-oriented. His initiatives included the development and issuance of the first-ever Federal Automated Vehicles Policy, the development of NHTSA’s first drowsy driving research and program plan, founding of the Road to Zero coalition to develop a 30-year plan to eliminate traffic fatalities, and aggressive oversight of safety in the automobile industry, including leading the Agency through the nation’s largest product safety recall in U.S. history.

Before becoming NHTSA Administrator, Dr. Rosekind was appointed by President Obama and served as the 40th member of the National Transportation Safety Board (NTSB) from 2010 to 2014. He advanced the agency’s advocacy goals on substance-impaired driving, fatigue, fire safety, and rail mass transit.
**POSTER HALL**

**HYNES CONVENTION CENTER**

**VIEW ADDITIONAL DETAILS ON THE SLEEP 2017 MOBILE APP!**

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</table>
The Massachusetts Convention Center Authority owns and operates the Boston Convention & Exhibition Center and the Hynes Convention Center.
The Massachusetts Convention Center Authority owns and operates the Boston Convention & Exhibition Center and the Hynes Convention Center.
LEVEL 3
HYNES CONVENTION CENTER

SECTIONS
Located on Level 3

Society Booth

The Massachusetts Convention Authority owns and operates the Boston Convention & Exhibition Center and the Hynes Convention Center.
**SLEEP 2017 POSTER HALL**

**Poster Presentation and Reception Hours**

**Sunday, June 4**
Poster Viewing .................................................. 1:00pm-5:00pm  
Poster Reception and Presentations ............... 5:00pm-7:00pm

**Monday, June 5**
Poster Viewing .................................................. 8:00am-5:00pm  
Poster Reception and Presentations ............... 5:00pm-7:00pm

**Tuesday, June 6**
Poster Viewing .................................................. 8:00am-5:00pm  
Poster Reception and Presentations ............... 5:00pm-7:00pm

**People’s Choice Award**

Vote for your favorite poster on each day of the meeting.

Download the SLEEP 2017 mobile app and visit the poster reception on each day of the meeting for details and to vote! You must be present at the SLEEP 2017 poster hall to cast your vote. Winners will be announced the following morning.

**AASM LEARNING LOUNGE**

Visit the AASM Learning Lounge in room 200—this is the place to have small-group discussions about topics of interest to AASM members.

**Monday, June 5**

10:30am - 11:30am  
Patients As Partners in Advancing Sleep Health: Engagement Strategies, Challenges and Opportunities

1:45pm - 2:45pm  
Faculty Development Workshop: Giving Feedback

3:00pm - 4:00pm  
Setting up a DME Program in an Academic Medical Center

**Tuesday, June 6**

10:20am - 11:20am  
Implementing AASM SleepTM Select: A Free Telemedicine Platform

1:30pm - 2:30pm  
Faculty Development Workshop: Learners in Need/Remediation

**Wednesday, June 7**

11:20am - 12:20pm  
Development of AASM Clinical Guidelines

1:30pm - 2:30pm  
Faculty Development Workshop: Teaching Millennials
Boston is home to the renowned Freedom Trail, SLEEP 2017 brings you the SLEEP Trail. Visit each Stamp Station on the SLEEP Trail and get your entry form (found in your totebag) stamped. Bring the completed entry form to the Society Booth for a free gift and a chance to win a prize!

1. Visit the 12 Stamp Stations in the Exhibit Hall.
2. Collect a stamp from all 12 Stamp Stations.
3. Turn in completed entry form to the Society Booth by Wednesday, June 7th at 11:00 AM.
4. Receive a free gift and be entered to win one of three great prizes!

*The SLEEP Trail is sponsored by*

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CADWELL
CONTINUING MEDICAL EDUCATION (CME) CREDIT FOR PHYSICIANS

Accreditation Statement
SLEEP 2017 meeting activities have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American Academy of Sleep Medicine (AASM) and the Associated Professional Sleep Societies, LLC (APSS). The American Academy of Sleep Medicine is accredited by the ACCME to provide continuing medical education for physicians.

CME may also be available by attending industry sponsored events. These credits are made available by the event organizer and are not processed by the AASM.

Satisfactory Completion
To receive CME credits, SLEEP 2017 attendees must register for CME credit and pay an administrative fee of $25 for members and $40 for nonmembers. Individuals must complete an online claim form to receive CME credit. Further information will be detailed on the CME Reference Form available near the registration area.

Target Audience for SLEEP 2017
Participants of the SLEEP 2017 meeting will include clinicians, scientists, students and other health care professionals seeking to increase their knowledge of the fields of sleep medicine and sleep research. Attendees should possess a basic knowledge of biological systems and/or operational issues in medical practice.

OVERALL EDUCATIONAL OBJECTIVES
Attendance at SLEEP 2017 should give participants a broad understanding of the current state-of-the-art of sleep medicine, including current clinical practices used when investigating and treating sleep disorders in adults and children; areas of controversy in clinical practice; recent basic science research in both animals and humans; and social, business and political issues relevant to sleep medicine.

By the end of SLEEP 2017, participants should be able to:

1. Summarize relevant information on the latest sleep research and clinical practices;
2. Identify present issues or challenges in diagnosis/treatment of sleep disorders, practice of sleep medicine or topics related to the field of sleep;
3. Integrate strategies and tools for the enhancement/advancement of sleep medicine; and
4. Recognize and have a basic understanding of common sleep disorders.

Sessions Available to Earn CME Credit
SLEEP 2017 offers physicians the opportunity to earn as many as 38.25 CME credits. CME credit is awarded for Bench to Bedside sessions, Brown Bag Reports, Clinical Workshops, Discussion Groups, Invited Lectures, Keynote Address, Lunch Debate sessions, Meet the Professor sessions, Oral Presentations, Postgraduate Courses and Symposia/Rapid-Fire Symposia. Specific details as to which sessions are eligible for CME credit are listed on the CME Reference Form, which is available at registration. Only those sessions sponsored by the APSS and listed on the CME Credit Claim Form are eligible for CME credit. Note: Poster viewing, late-breaking abstract sessions, and Conversations with Expert Sessions are not eligible for CME credit.

Credit is awarded based on the amount of time spent in each activity (rounded to the nearest quarter hour). Physicians may earn the following maximum number of credits each day:

Saturday, June 3 ............................................. 7.50 credits
Sunday, June 4 ............................................. 7.75 credits
Monday, June 5 ............................................. 7.00 credits
Tuesday, June 6 ............................................. 8.00 credits
Wednesday, June 7 ........................................ 8.00 credits

Sessions Available to Earn CME Credit
SLEEP 2017 offers physicians the opportunity to earn as many as 38.25 CME credits. CME credit is awarded for Bench to Bedside sessions, Brown Bag Reports, Clinical Workshops, Discussion Groups, Invited Lectures, Keynote Address, Lunch Debate sessions, Meet the Professor sessions, Oral Presentations, Postgraduate Courses and Symposia/Rapid-Fire Symposia. Specific details as to which sessions are eligible for CME credit are listed on the CME Reference Form, which is available at registration. Only those sessions sponsored by the APSS and listed on the CME Credit Claim Form are eligible for CME credit. Note: Poster viewing, late-breaking abstract sessions, and Conversations with Expert Sessions are not eligible for CME credit.

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Saturday, June 3 ............................................. 7.50 credits
Sunday, June 4 ............................................. 7.75 credits
Monday, June 5 ............................................. 7.00 credits
Tuesday, June 6 ............................................. 8.00 credits
Wednesday, June 7 ........................................ 8.00 credits
CONTINUING EDUCATION (CE)
FOR PSYCHOLOGISTS

Accreditation Statement
This program is co-sponsored by Amedco and the Associated Professional Sleep Societies, LLC (APSS). Amedco is approved by the American Psychological Association to sponsor continuing education for psychologists. Amedco maintains responsibility for this program and its content.

Sessions Available to Earn CE Credit
Psychologists may receive up to 36.75 hours of continuing education credit for attending SLEEP 2017. CE credit is awarded for Bench to Bedside sessions, Brown Bag Reports, Clinical Workshops, Discussion Groups, Invited Lectures, Keynote Address, Oral Presentations, Postgraduate Courses and Symposia/Rapid-Fire Symposia. Note: Poster viewing, Late-breaking Abstracts, Lunch Debate sessions, Meet the Professor sessions and Conversations with Experts sessions are not eligible for CE credit.

Psychologists may earn the following maximum number of CE credits each day:
Saturday, June 3 ............................................. 8 credits
Sunday, June 4 ................................................ 8 credits
Monday, June 5 ............................................... 6.75 credits
Tuesday, June 6 .............................................. 7 credits
Wednesday, June 7 ........................................ 7 credits

Satisfactory Completion for Psychologists
To receive CE credits, SLEEP 2017 attendees must register for CE credit. The administrative fee is $50 for members and nonmembers. Participants must complete an attendance/evaluation form in order to receive a certificate of completion/attendance. Your chosen sessions must be attended in their entirety. Partial credit of individual sessions is not available. Further information will be detailed on the CE Reference Form, distributed at registration.

CONTINUING EDUCATION FOR OTHERS

Accreditation Statement
The AMA Council on Medical Education mandates that accredited providers only offer AMA PRA Category 1 Credits™ to physicians. The AASM will issue individuals who are not eligible for any type of continuing education credits offered at SLEEP 2017 a letter of attendance outlining the number of AMA PRA Category 1 Credits™ designated for the sessions they attend at SLEEP 2017.

DO NOT FORGET TO REGISTER FOR CREDITS

Follow the instructions below to ensure that you receive credit for SLEEP 2017:

1. When you register for SLEEP 2017, be sure to add the appropriate continuing education credits to your registration. This is a separate fee from the general session registration fee.
2. Pick up the appropriate Reference Form at the Continuing Education table near the SLEEP 2017 registration counters.
3. Use the Reference Form to track the sessions that you attend at SLEEP 2017.
4. Go online to sleepmeeting.org/credits after June 14th to claim your credits. Instructions will be included on the Reference Form.

Deadline to complete online credit claim forms:

CE for Psychologists ......................................... July 13, 2017
CME and Letters of Attendance ........................ October 1, 2017

After these dates, individuals will no longer be able to receive credits.

To receive a letter of attendance, SLEEP 2017 attendees must register and pay an administrative fee of $25 for members and $40 for nonmembers. Individuals must complete an online claim form to receive the letter of attendance. Further information will be detailed on the Letter of Attendance Reference Form available near the registration area.

AAST CECs are not provided for SLEEP 2017 sessions. Sleep technologists attending SLEEP 2017 sessions should register for a letter of attendance.
Mr. Barrett has served as the executive director of the AASM since 1996 and also was SRS executive director from 2004 to 2016. Under his leadership the AASM earned formal recognition for sleep medicine as a medical subspecialty and strengthened the position of sleep specialists in the health care landscape, and the SRS advanced sleep and circadian science and increased funding opportunities for sleep researchers.

His superb financial management also enabled the AASM and SRS to make important investments in the sleep field by advocating for sleep specialists and sleep scientists, developing evidence-based practice standards, raising public awareness of the prevalence of sleep disorders and the importance of healthy sleep, and funding research awards through the American Sleep Medicine Foundation and Sleep Research Society Foundation.

His forthcoming retirement will conclude a 37-year career in medical society management.
## Session Description

<table>
<thead>
<tr>
<th>Session</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Postgraduate Courses</td>
<td>Intensive reviews of topics presented in a half-day or full-day session format prior to the scientific program.</td>
</tr>
<tr>
<td>Bench-to-Bedside Integrated Sessions</td>
<td>Two-hour sessions focusing on the latest advances in translational science and clinical applications on a specific topic.</td>
</tr>
<tr>
<td>Discussion Groups</td>
<td>Forums for informal presentations of a specific topic, which may include conversations on controversial subjects or pro/con discussions and presentations.</td>
</tr>
<tr>
<td>Conversations with Experts</td>
<td>Small-group lunch sessions during which invited lecturers lead an informal discussion on a single topic. Lunch is not provided.</td>
</tr>
<tr>
<td>Rapid-Fire Symposia</td>
<td>Fast-paced, two-hour sessions led by junior-level investigators/clinicians focusing on the latest data and ideas in the field.</td>
</tr>
<tr>
<td>Invited Lectures</td>
<td>One-hour lectures during which senior-level investigators/clinicians present in their areas of expertise.</td>
</tr>
<tr>
<td>Lunch Debates</td>
<td>Large-group lunch sessions during which two experts in the field debate on a single topic. Lunch is provided.</td>
</tr>
<tr>
<td>Meet the Professors</td>
<td>Small-group lunch sessions during which an expert in the field leads an informal discussion on a single topic. Lunch is provided.</td>
</tr>
<tr>
<td>Oral Presentations</td>
<td>15-minute presentations during which investigators present their latest research and new ideas in the field.</td>
</tr>
<tr>
<td>Poster Presentations</td>
<td>Visual representations of the latest research and new ideas in the field.</td>
</tr>
<tr>
<td>Brown Bag Report Sessions</td>
<td>Review of challenging cases by an expert panel. Lunch is not provided.</td>
</tr>
<tr>
<td>Symposia</td>
<td>Two-hour sessions focusing on the latest data and ideas in the field.</td>
</tr>
<tr>
<td>Clinical Workshops</td>
<td>Reviews of patient-related and business-related aspects of sleep centers. Workshops address difficult clinical situations, business challenges and trends that clinicians experience in their daily practices.</td>
</tr>
</tbody>
</table>

**Clinical & Translational Research**

**Clinical Practice**

**Basic Research**

**Human Research**

Ticketed Events

*Tickets required to attend*

sleepmeeting.org

*Receive the latest details*

Only children 12 or older are permitted in the exhibit hall, poster sessions and in session rooms. No strollers are permitted in the exhibit hall, poster sessions or session rooms.
# Schedule

**Registration Open – 6:30AM-5:30PM**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tbody>
<tr>
<td><strong>8:00AM - 5:00PM</strong></td>
<td><strong>FULL-DAY POSTGRADUATE COURSES</strong></td>
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</tr>
<tr>
<td>8:00AM - 5:00PM</td>
<td><strong>C01</strong> Year in Review 2017</td>
<td>Ballroom B</td>
</tr>
<tr>
<td>8:00AM - 5:00PM</td>
<td><strong>C02</strong> Trends in Sleep Medicine</td>
<td>Ballroom A</td>
</tr>
<tr>
<td>8:00AM - 5:00PM</td>
<td><strong>C03</strong> Precision Sleep Medicine: Predictive, Preventive, Personalized and Participatory</td>
<td>Room 304/306</td>
</tr>
<tr>
<td><strong>8:00AM - 12:00PM</strong></td>
<td><strong>HALF-DAY POSTGRADUATE COURSES</strong></td>
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</tr>
<tr>
<td>8:00AM - 12:00PM</td>
<td><strong>C04</strong> Difficult Cases That Keep You Up at Night: Case-based Review of Challenging Clinical Scenarios for the Sleep Medicine Specialist</td>
<td>Ballroom C</td>
</tr>
<tr>
<td>8:00AM - 12:00PM</td>
<td><strong>C05</strong> Hang Ten on These Waves: EEG Essentials for the Sleep Practitioner</td>
<td>Room 302</td>
</tr>
<tr>
<td><strong>1:00PM - 5:00PM</strong></td>
<td><strong>HALF-DAY POSTGRADUATE COURSES</strong></td>
<td></td>
</tr>
<tr>
<td>1:00PM - 5:00PM</td>
<td><strong>C06</strong> Treatment Advancements for Sleep-disordered Breathing</td>
<td>Ballroom C</td>
</tr>
<tr>
<td>1:00PM - 5:00PM</td>
<td><strong>C07</strong> Managing and Treating Sleep and Sleepiness in Workplace Settings</td>
<td>Room 302</td>
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</table>
### FULL-DAY POSTGRADUATE COURSES

<table>
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<tr>
<th>Time</th>
<th>Course</th>
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<th>Room</th>
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<tbody>
<tr>
<td>8:00AM - 5:00PM</td>
<td>C08</td>
<td>2017 State of the Art for Clinical Practitioners</td>
<td>Ballroom B</td>
</tr>
<tr>
<td></td>
<td>C09</td>
<td>Behavioral Sleep Medicine: Evidence- and Case-based Treatment of Special Populations</td>
<td>Ballroom A</td>
</tr>
<tr>
<td></td>
<td>C10</td>
<td>Adolescent Sleep Medicine: State of the Art 2017</td>
<td>Room 304/306</td>
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### HALF-DAY POSTGRADUATE COURSES

<table>
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<tr>
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<th>Room</th>
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<tbody>
<tr>
<td>8:00AM - 12:00PM</td>
<td>C11</td>
<td>Evolving Your Sleep Practice to Meet the Needs of an Ever Changing Healthcare World</td>
<td>Ballroom C</td>
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<tr>
<td></td>
<td>C12</td>
<td>Sleep Disturbances and Cancer: An Emerging Relationship</td>
<td>Room 302</td>
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<th>Time</th>
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<th>Room</th>
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<tbody>
<tr>
<td>1:00PM - 5:00PM</td>
<td>C13</td>
<td>The Holy Grail of Clinical Sleep Medicine: Measuring and Reporting Meaningful Outcomes</td>
<td>Ballroom C</td>
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<tr>
<td></td>
<td>C14</td>
<td>Restless Legs Syndrome (RLS) Treatment Advances in the Post-Mainly-Dopamine Era: Augmentation, Alpha-2-Delta Agents, Opioids, Iron, Pediatric Care and those Intractable Cases</td>
<td>Room 302</td>
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### GENERAL SESSIONS

<table>
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<tr>
<th>Time</th>
<th>Course</th>
<th>Title</th>
<th>Room</th>
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</thead>
<tbody>
<tr>
<td>1:00PM - 3:00PM</td>
<td>O01</td>
<td>Circadian Rhythms, Activity and Sleep Assessment</td>
<td>Room 210</td>
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<td>S01</td>
<td>Innovative Applications of in vivo Molecular Neuroimaging for Sleep Research in Humans</td>
<td>Room 311</td>
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<td>S02</td>
<td>Role of Fast Neurotransmitters in Sleep-Wake Regulation</td>
<td>Room 309</td>
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### REFRESHMENT BREAK

Registration Open – 6:30AM-5:30PM
3:15PM - 5:15PM

<table>
<thead>
<tr>
<th>General Sessions</th>
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<tbody>
<tr>
<td>O02</td>
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<tr>
<td>S03</td>
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<tr>
<td>S04</td>
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5:00PM - 7:00PM

POSTER PRESENTATIONS

PLENARY SESSION KEYNOTE LECTURE
MONDAY, JUNE 5, 2017 AT 8:15 AM

Interactions between Sleep and Circadian Rhythms in Health and Disease

H. Craig Heller, PhD | Professor of Biology, Stanford University

Professor Heller’s research interests are focused upon the neurobiology of sleep, circadian rhythms, regulation of body temperature, mammalian hibernation and human exercise physiology.

FACULTY DEVELOPMENT WORKSHOPS
NEW AT THE SLEEP MEETING

Three, one-hour sessions will focus on providing professional development for educators. Presenters will review tips for giving feedback, strategies for managing learners in need and best practices for teaching millennials.

Session titles are available in the Learning Lounge schedule on page 17.

AASM LEARNING LOUNGE
ROOM 200 | MON. - WED

Visit the AASM Learning Lounge—this is the place to have small-group discussions about topics of interest to AASM members. Lean more on page 17.
### Registration Open – 6:30AM-5:30PM

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>8:15AM - 10:00AM</td>
<td><strong>PLENARY SESSION AND KEYNOTE ADDRESS</strong></td>
<td></td>
</tr>
<tr>
<td>10:00AM - 10:30AM</td>
<td><strong>REFRESHMENT BREAK</strong></td>
<td></td>
</tr>
<tr>
<td>10:00AM - 4:00PM</td>
<td><strong>EXHIBIT HALL OPEN</strong></td>
<td></td>
</tr>
<tr>
<td>10:30AM - 12:30PM</td>
<td><strong>GENERAL SESSIONS</strong></td>
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<tr>
<td>12:45PM - 1:45PM</td>
<td><strong>LUNCH SESSIONS</strong></td>
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#### GENERAL SESSIONS

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>O03</td>
<td>Pediatric Sleep: Actigraphs to ZZZs</td>
<td>Room 210</td>
</tr>
<tr>
<td>O04</td>
<td>Effect of Sleep Disturbances on Mood, Cognition and Athletic Performance</td>
<td>Room 304/306</td>
</tr>
<tr>
<td>O05</td>
<td>Functional Circuitry of CNS State</td>
<td>Room 311</td>
</tr>
<tr>
<td>S05</td>
<td>Transforming Obstructive Sleep Apnea Care: Delivering High Value and Quality Care</td>
<td>Ballroom B</td>
</tr>
<tr>
<td>S06</td>
<td>Cardiometabolic Risk In Chronic Insomnia</td>
<td>Ballroom A</td>
</tr>
<tr>
<td>S07</td>
<td>Why Rocking Around the Clock Might Not be Good for Your Health</td>
<td>Room 302</td>
</tr>
<tr>
<td>S08</td>
<td>TAAR1: A Negative Regulator of Dopamine Release and a Novel Target for Sleep/Wake Medications</td>
<td>Room 309</td>
</tr>
<tr>
<td>W01</td>
<td>Oral and Intravenous Iron Treatment of Restless Legs Syndrome in Adults and Children: Why, When and How</td>
<td>Ballroom C</td>
</tr>
</tbody>
</table>

#### LUNCH SESSIONS

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>L01</td>
<td>The Synaptic Basis of Sleep Function: SHY vs. Synaptic Enhancement of Sleep</td>
<td>Room 103</td>
</tr>
<tr>
<td>M01</td>
<td>Clinical Practice Guidelines for the Pharmacologic Treatment of Chronic Insomnia in Adults</td>
<td>Room 107</td>
</tr>
<tr>
<td>M02</td>
<td>Sleep Forensics and Criminology</td>
<td>Room 108</td>
</tr>
<tr>
<td>M03</td>
<td>Surgical Evaluation and Treatment of Obstructive Sleep Apnea</td>
<td>Room 109</td>
</tr>
<tr>
<td>M04</td>
<td>The ABC’s of MACRA</td>
<td>Room 110</td>
</tr>
<tr>
<td>M05</td>
<td>Translating Circadian Biology into Health and Disease: Role of Chronotherapy</td>
<td>Room 111</td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
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<tr>
<td>12:45PM - 1:45PM</td>
<td><strong>LUNCH SESSIONS</strong></td>
<td></td>
</tr>
<tr>
<td>E01</td>
<td>Thomas Kilduff, PhD</td>
<td></td>
</tr>
<tr>
<td>E02</td>
<td>Judith Owens, MD</td>
<td></td>
</tr>
<tr>
<td>E03</td>
<td>Honorable Mark R. Rosekind, PhD</td>
<td></td>
</tr>
<tr>
<td>LBA</td>
<td>Late-breaking Abstracts</td>
<td></td>
</tr>
<tr>
<td>12:30PM - 1:45PM</td>
<td><strong>AASM GENERAL MEMBERSHIP MEETING</strong></td>
<td></td>
</tr>
<tr>
<td>1:45PM - 2:45PM</td>
<td><strong>GENERAL SESSIONS</strong></td>
<td></td>
</tr>
<tr>
<td>I02</td>
<td>Pre-Operative Screening for Sleep Apnea and CPAP Treatment: Is This Evidence-Based? Frances Chung, MD</td>
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<tr>
<td>I03</td>
<td>Sleep, Wake and the Self-Tuning Brain Gina Turrigiano, PhD</td>
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<tr>
<td>O06</td>
<td>Hypersomnia: Prevalence and MRI Findings</td>
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<tr>
<td>O07</td>
<td>Caution! Systemic Effects of Sleep-Disordered Breathing</td>
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<tr>
<td>O08</td>
<td>Insomnia with Objective Short Sleep: Methodological Issues and Clinical Consequences</td>
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<tr>
<td>O09</td>
<td>Human Genetics of Sleep Disorders</td>
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<tr>
<td>2:45PM - 3:00PM</td>
<td><strong>REFRESHMENT BREAK</strong></td>
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<tr>
<td>3:00PM - 5:00PM</td>
<td><strong>GENERAL SESSIONS</strong></td>
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<tr>
<td>D01</td>
<td>Update on Sleep/Circadian Research Activities from NIH</td>
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<tr>
<td>F01</td>
<td>Innovative Interventions Targeting the Intersection of Sleep and Mental Health Disorders</td>
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<tr>
<td>S09</td>
<td>Sleep Homeostasis and Synaptic Plasticity</td>
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<tr>
<td>O10</td>
<td>ABCs of Pediatric Sleep: Apneas, Babies and Chronotypes</td>
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<tr>
<td>S10</td>
<td>Circadian Rhythms, Sleep and Cancer</td>
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<tr>
<td>S11</td>
<td>Sleep Deficiency, Cognition and Emotion</td>
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<tr>
<td>W02</td>
<td>Sleep and Cardiovascular Health</td>
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<tr>
<td>W03</td>
<td>Scoring Manual Update and Inter-scorer Reliability Program and Examples</td>
<td></td>
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<tr>
<td>5:00PM - 7:00PM</td>
<td><strong>POSTER PRESENTATIONS</strong></td>
<td></td>
</tr>
</tbody>
</table>
### Registration Open – 7:30AM-5:00PM

#### 8:00AM - 9:00AM

**I04**  
**Individual Susceptibility to Sleep Apnea: Influences of Genomics and the Environment**  
Susan Redline, MD

#### 8:00AM - 10:00AM

**S12**  
Sleep and Circadian Rhythm Dysfunction in the Postoperative and Critical Care Environment  
Room 210

**O11**  
New Developments in Insomnia Treatments: Treatment and Mechanisms  
Room 302

**S13**  
Trauma Associated Sleep Disturbances: The Intersection of Traumatic Brain Injury and Posttraumatic Stress Disorder  
Ballroom A

**S14**  
Gut Health and Circadian Misalignment  
Ballroom C

**S15**  
Sleep, Cytokines and Fatigue  
Room 311

**S16**  
Sleep Ontogeny Across Phylogeny: Examining the Role of Sleep During Development Using Model Systems  
Room 309

**W04**  
Beyond the Basics: Complex Cases and Comorbidities in Pediatric Sleep Medicine  
Room 304/306

#### 8:05AM - 10:05AM

**I05**  
Enhancing Transportation Safety: The Need for Better Sleep  
Honorable Mark R. Rosekind, PhD  
Ballroom B

#### 10:00AM - 10:20AM

**REFRESHMENT BREAK**

#### 10:00AM - 4:00PM

**EXHIBIT HALL OPEN**

#### 10:20AM - 11:20AM

**I06**  
Circadian Genes, Rhythms and the Biology of Psychiatric Disorders  
Colleen McClung, PhD  
Room 302

#### 10:20AM - 12:20PM

**D02**  
Diversity Matters: How Increasing the Involvement of Under-represented Minorities and Women in Sleep Research Can Enhance our Science  
Ballroom C

**O12**  
Neurological Disease and Sleep  
Room 210

**O13**  
The Interplay Between Sleep and Development  
Room 309

**O14**  
Consequences and Management of Sleep/Circadian Challenges  
Room 311

**S17**  
Sleep and the Immune System: Novel Insights and Clinical Implications  
Room 304/306
### Schedule

#### 11:25AM - 12:25PM

**S18**
Mild-to-Moderate Obstructive Sleep Apnea: Highly Prevalent, But of What Impact?  
Ballroom B

**W05**
Telemedicine Update: Sleep Beyond the Comfort Zone  
Ballroom A

### 11:25AM - 12:25PM General Sessions

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Speaker</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>I07</td>
<td>Identifying Novel Sleep/Wake Targets: Hypocretin/Orexin, Cortical nNOS Neurons and TAAR1</td>
<td>Thomas Kilduff, PhD</td>
<td>Room 302</td>
</tr>
</tbody>
</table>

#### 12:30PM - 1:30PM

**L02**
Sleep Need: What is it and Can it be Quantified?  
Room 103

**M06**
Nightmare Disorder: When Patients are Scared to Sleep at Night  
Room 107

**M07**
Clinical Practice Guidelines for the Diagnostic Testing of OSA in Adults  
Room 108

**M08**
Implementing Healthy School Start Times: Educating and Engaging Community Stakeholders  
Room 109

**M09**
Increasing the Availability of Sleep Therapy to More Patients  
Room 110

**M10**
Improving Cardiovascular and Metabolic Outcomes with Insomnia Therapy  
Room 111

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Speaker</th>
<th>Room</th>
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</thead>
<tbody>
<tr>
<td>E04</td>
<td></td>
<td>Frances Chung, MD</td>
<td>Room 303</td>
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<tr>
<td>E05</td>
<td></td>
<td>Colleen McClung, PhD</td>
<td>Room 305</td>
</tr>
<tr>
<td>E06</td>
<td></td>
<td>Gina Turrigiano, PhD</td>
<td>Room 308</td>
</tr>
<tr>
<td>R01</td>
<td>Brown Bag Report: Challenging Cases</td>
<td></td>
<td>Room 302</td>
</tr>
</tbody>
</table>

#### 12:20PM - 1:30PM

**O15**
Down the Hatch! Pharmacologic Interventions for OSA  
Ballroom B

**O16**
Sleep-related Movement Disorders and Parasomnias  
Ballroom C

**O17**
Healthcare Delivery  
Room 304/306

#### 1:30PM - 2:30PM

**I08**
Traumatic Brain Injury Induces Sleep: A Diagnostic or Therapeutic Biomarker?  
Jonathan Lifshitz, PhD  
Ballroom A

**I09**
Tinkering with Sleep: Enhancing Brain Rhythms, Enhancing Sleep Physiology, Enhancing Memory  
Ken Paller, PhD  
Room 302

**O15**
Down the Hatch! Pharmacologic Interventions for OSA  
Ballroom B

**O16**
Sleep-related Movement Disorders and Parasomnias  
Ballroom C

**O17**
Healthcare Delivery  
Room 304/306
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<tr>
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<tbody>
<tr>
<td><strong>O18</strong></td>
<td>Genetics and Genomics of Sleep and Circadian Rhythms</td>
<td>Room 311</td>
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<tr>
<td><strong>2:30PM - 2:45PM</strong></td>
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<td><strong>2:45PM - 4:45PM</strong></td>
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<tr>
<td><strong>D03</strong></td>
<td>Value-based Sleep: Crucial Conversations to Define, Demonstrate, and Maximize Our Value</td>
<td>Ballroom C</td>
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<tr>
<td><strong>O19</strong></td>
<td>Stim Me! The Upper Airway and HNS</td>
<td>Room 304/306</td>
</tr>
<tr>
<td><strong>O20</strong></td>
<td>PTSD, Other Psychiatric Disorders, and Sleep</td>
<td>Room 210</td>
</tr>
<tr>
<td><strong>S19</strong></td>
<td>Human Circadian Rhythms: Big Data Methods and Lessons for the Individual and Population</td>
<td>Room 302</td>
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<tr>
<td><strong>S20</strong></td>
<td>Boosting Slow Wave Sleep and Improving Cognitive Outcomes Across the Life Span</td>
<td>Room 311</td>
</tr>
<tr>
<td><strong>S21</strong></td>
<td>Dopaminergic Control of Sleep and Wakefulness</td>
<td>Room 309</td>
</tr>
<tr>
<td><strong>W06</strong></td>
<td>Preparing for Sleep Medicine Recertification</td>
<td>Ballroom B</td>
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<tr>
<td><strong>W07</strong></td>
<td>Parasomnia: Diagnostic Challenges and How to Overcome Them</td>
<td>Ballroom A</td>
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<tr>
<td><strong>4:30PM - 5:30PM</strong></td>
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<td><strong>5:00PM - 7:00PM</strong></td>
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of the AASM Sleep Telemedicine Implementation Guide.

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### Schedule

**Registration Open – 7:30AM-5:00PM**

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<th>Time</th>
<th>Session</th>
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<tr>
<td>7:00AM - 8:00AM</td>
<td>NURSES’ BREAKFAST</td>
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<tr>
<td>8:00AM - 10:00AM</td>
<td>GENERAL SESSIONS</td>
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<tr>
<td>S22</td>
<td>Recent Advances in the Pathophysiology of RBD and REM Sleep: Hints for Treatment? Ballroom C</td>
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<tr>
<td>O21</td>
<td>Sleep Changes with Aging and Their Impact on Mortality                  Room 302</td>
</tr>
<tr>
<td>S23</td>
<td>Upper Airway Stimulation Therapy for Obstructive Sleep Apnea: Theoretical Considerations, Clinical Evidence and Implementation Strategies Ballroom B</td>
</tr>
<tr>
<td>S24</td>
<td>Drowsy Driving                                                          Ballroom A</td>
</tr>
<tr>
<td>S25</td>
<td>Sleep, Clocks and Brain Plasticity Across the Lifespan                  Room 311</td>
</tr>
<tr>
<td>W08</td>
<td>Challenges in Diagnosis and Management of Pediatric Narcolepsy          Room 304/306</td>
</tr>
<tr>
<td>10:00AM - 1:30PM</td>
<td>EXHIBIT HALL OPEN</td>
</tr>
<tr>
<td>10:20AM - 12:20PM</td>
<td>GENERAL SESSIONS</td>
</tr>
<tr>
<td>F02</td>
<td>Metabolic Dysregulation During Sleep and Circadian Disruption: Methods, Mechanisms and Countermeasures Room 311</td>
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<tr>
<td>O22</td>
<td>Of Heart and Mind: Impact of Sleep-disordered Breathing                Ballroom C</td>
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<tr>
<td>O23</td>
<td>How Short Sleep Time and Altered Sleep Schedules Interface with Cancer, Pain and Cardiometabolic Disease Room 304/306</td>
</tr>
<tr>
<td>S26</td>
<td>Sleep and Cognition: Recommendations from the Global Council on Brain Health, An AARP Collaborative Ballroom A</td>
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<tr>
<td>S27</td>
<td>Translational Neuroscience: EEG Biomarkers in Preclinical Models of Neurological and Neuropsychiatric Disorders Room 302</td>
</tr>
<tr>
<td>W09</td>
<td>Sleep Apnea Surgery 2017                                              Ballroom B</td>
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</tbody>
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### 12:30PM - 1:30PM

**LUNCH SESSIONS**

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<tr>
<th></th>
<th>Title</th>
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<tbody>
<tr>
<td>L03</td>
<td>Is Sleep Testing Needed When Straightforward OSA is Suspected?</td>
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<td>M11</td>
<td>Obesity Hypoventilation Syndrome: Evaluation and Treatment</td>
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<tr>
<td>M12</td>
<td>Leaning In: Promoting and Sponsoring Opportunities for Women in Sleep Medicine</td>
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<tr>
<td>M13</td>
<td>Challenging Cases in Pediatric Sleep Medicine</td>
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<tr>
<td>M14</td>
<td>Developing a Sleep Curriculum for Pulmonary Fellows</td>
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<tr>
<td>M15</td>
<td>Overview of Accreditation Standards</td>
<td>111</td>
</tr>
<tr>
<td>E07</td>
<td>Jonathan Lifshitz, PhD</td>
<td>303</td>
</tr>
<tr>
<td>E08</td>
<td>Ken Paller, PhD</td>
<td>305</td>
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### 1:30PM - 2:30PM

**GENERAL SESSIONS**

<table>
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<tr>
<th></th>
<th>Title</th>
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<tbody>
<tr>
<td>I10</td>
<td>The Janus Effect: Looking Back and Moving Forward in Pediatric Sleep Medicine</td>
<td>Ballroom B</td>
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<tr>
<td>O24</td>
<td>Sleep and Mood Disorders</td>
<td>Ballroom A</td>
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<tr>
<td>O25</td>
<td>PAP Power! Strategies to Increase Adherence</td>
<td>Ballroom C</td>
</tr>
<tr>
<td>O26</td>
<td>Circadian Rhythms, Shiftwork and Health</td>
<td>Room 304/306</td>
</tr>
<tr>
<td>O27</td>
<td>Sleep, Neurodegeneration and Aging</td>
<td>Room 302</td>
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<tr>
<td>S28</td>
<td>Spaceflight Effects on Sleep and Performance</td>
<td>Room 311</td>
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### 2:30PM - 2:45PM

**REFRESHMENT BREAK**

### 2:45PM - 4:45PM

**GENERAL SESSIONS**

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<th>Title</th>
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<tbody>
<tr>
<td>O28</td>
<td>PAP Power! Outcomes of Treatment</td>
<td>Ballroom C</td>
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<tr>
<td>O29</td>
<td>Hypersomnia Treatment/Technology and Innovation in Sleep Diagnostics</td>
<td>Room 304/306</td>
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<tr>
<td>O30</td>
<td>Learning, Memory and Cognition</td>
<td>Room 302</td>
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<tr>
<td>S29</td>
<td>Cardiovascular Benefits of OSA Therapy: Does Treatment Modality Matter?</td>
<td>Ballroom B</td>
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<tr>
<td>S30</td>
<td>Sleep, Hormones and Pregnancy</td>
<td>Ballroom A</td>
</tr>
<tr>
<td>S31</td>
<td>In Search of Biomarkers for Sleep and Circadian Disruption</td>
<td>Room 311</td>
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</tbody>
</table>
Introducing the O₂Vent™ – a treatment platform that offers a unique alternative to sufferers of snoring and OSA. It may be particularly helpful to those that have nasal obstruction or cannot tolerate Continuous Positive Airway Pressure (CPAP).

Our customized oral appliances are utilizing Oventus Airway Technology – a unique airway built into its patented design allowing breathing through the appliance via a low resistance airway, to bypass nasal resistance and velopharyngeal obstruction.

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  A slimline winged appliance that uses a dual mechanism to stabilize and advance the mandible, still enabling opening of the mouth.

- **O₂Vent™ T**
  The “T” appliance connects at the front before insertion. The lower mandible can be titrated forward in .02 in increments to a comfortable and efficacious range.

- **O₂Vent™ Mono**
  The original Oventus device advances the mandible to a fixed protrusive bite.

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**Learning Objectives**

Upon completing this activity, participants will be able to:

- Understand the latest advancements in the pathophysiology of sleep disorders
- Recognize the latest non-pharmacologic and pharmacologic approaches in controlling the sleep-wake cycle
- Evaluate the use of orexin receptor antagonists in the management of insomnia

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**Agenda**

<table>
<thead>
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<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:15 – 6:45 PM</td>
<td>Registration and Buffet Dinner</td>
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<tr>
<td>6:45 – 8:45 PM</td>
<td>Educational Program</td>
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<tr>
<td>6:45 – 7:00 PM</td>
<td>Welcome and Introduction</td>
</tr>
<tr>
<td>7:00 – 7:30 PM</td>
<td>Normal Sleep Physiology and Its Implications in Insomnia Pathophysiology Phyllis C. Zee, MD, PhD</td>
</tr>
<tr>
<td>7:30 – 8:00 PM</td>
<td>Personalization of Insomnia Therapy: Matching Treatment with Patient Needs Andrew Krystal, MD, MS</td>
</tr>
<tr>
<td>8:00 – 8:30 PM</td>
<td>Unique Role of Orexin Receptor Antagonists in Insomnia Management: Mechanism and Clinical Implications Thomas Roth, PhD</td>
</tr>
<tr>
<td>8:30 – 8:45 PM</td>
<td>Learning By Sharing: Q and A</td>
</tr>
</tbody>
</table>

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**Faculty**

**Phyllis C. Zee, MD, PhD**  
Professor of Neurology  
Northwestern University  
Director, Sleep Disorders Center  
Northwestern Memorial Hospital  
Chicago, IL

**Andrew Krystal, MD, MS**  
Professor of Psychiatry  
Executive Vice Chairman  
Department of Psychiatry  
University of California, San Francisco  
San Francisco, CA

**Thomas Roth, PhD**  
Director  
Sleep Disorders and Research Center  
Henry Ford Hospital  
Detroit, MI

---

**Accreditation | Physicians**

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education through the joint providership of Center for Independent Healthcare Education (Center) and Vemco MedEd. Center is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. Center designates this live activity for a maximum of 2.0 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

For questions regarding accreditation, please contact info@jointsponsor.com

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**Registration and Additional Information**

www.vemcomeded.com/livemeetings.asp
SLEEP 2017 offers one-hour lectures in which senior-level investigators/clinicians present in their areas of expertise.

Frances Chung, MD  
Professor, University of Toronto, Toronto Western Hospital, University Health Network  
Pre-operative Screening for Sleep Apnea and CPAP Treatment: Is this Evidence-based?  
Monday, June 5 at 1:45pm  
BALLROOM B  
Dr. Chung’s research interests are in several areas: sleep apnea, patient safety, pain, monitoring, perioperative medicine, and ambulatory anesthesia.

Thomas Kilduff, PhD  
Director, Center for Neuroscience at SRI International  
Identifying Novel Sleep/Wake Targets: Hypocretin/Orexin, Cortical nNOS Neurons and TAAR1  
Tuesday, June 6 at 11:25am  
ROOM 302  
Dr. Kilduff’s research group has identified a cortical interneuron population that is activated during sleep in proportion to homeostatic sleep drive and also focuses on therapeutic development for insomnia and narcolepsy.

Jonathan Lifshitz, PhD  
Director, Translational Neurotrauma Research Program at Phoenix Children’s Hospital, Department of Child Health at the University of Arizona, College of Medicine – Phoenix, and Phoenix Veterans Affairs Health Care System  
Traumatic Brain Injury Induces Sleep: A Diagnostic or Therapeutic Biomarker?  
Tuesday, June 6 at 1:30pm  
BALLROOM A  
Dr. Lifshitz’s research questions primarily investigate traumatic brain injury, among other acute neurological injuries, as a series of events that dismantle circuits in the brain and in response repair those injured circuits.

Colleen McClung, PhD  
Associate Professor, University of Pittsburgh Medical School  
Circadian Genes, Rhythms and the Biology of Psychiatric Disorders  
Tuesday, June 6 at 10:20am  
ROOM 302  
Dr. McClung’s work focuses on the molecular biology of psychiatric and addictive disorders with a focus on the role of circadian genes in these disorders.
Judith Owens, MD
Director of Sleep Medicine, Boston Children’s Hospital, Faculty, Harvard Medical School

The Janus Effect: Looking Back and Moving Forward in Pediatric Sleep Medicine
**Wednesday, June 7 at 1:30pm**
BALLROOM B

Dr. Owens’ research interests are in the neurobehavioral and health consequences of sleep problems in children and adolescents, sleep health education, and cultural and psychosocial issues impacting on sleep.

Ken Paller, PhD
Cognitive Neuroscientist, Northwestern University

Tinkering with Sleep: Enhancing Brain Rhythms, Enhancing Sleep Physiology, Enhancing Memory
**Tuesday, June 6 at 1:30pm**
ROOM 302

Dr. Paller’s recent studies have concerned sleep’s role in memory and memory dysfunction, sensory processing during sleep to reinforce prior learning, the neural substrates of conscious memory experiences, and the juxtaposition of those memory experiences with various ways in which memory can influence our behavior in the absence of awareness of memory retrieval.

Honorable Mark R. Rosekind, PhD
Former NHTSA Administrator, NTSB Member, NASA Scientist

Enhancing Transportation Safety: The Need for Better Sleep
**Tuesday, June 6 at 9:05am**
BALLROOM B

Dr. Mark Rosekind is a dynamic leader dedicated to enhancing safety and health through public service, as a NASA scientist, in business, and academia. Twice nominated by President Obama and confirmed by the US Senate, he recently served as the 15th Administrator of NHTSA after serving as the 40th Member of the NTSB.

Gina Turrigiano, PhD
Professor, Volen Center for Complex Systems, and the Center for Behavioral Genomics, Brandeis University

Sleep, Wake and the Self-Tuning Brain
**Monday, June 5 at 1:45pm**
ROOM 302

Dr. Turrigiano’s research focuses on homeostatic mechanisms that stabilize neural circuit function.

Susan Redline, MD
Peter C. Farrell Professor of Sleep Medicine, Harvard Medical School

Individual Susceptibility to Sleep Apnea: Influences of Genomics and the Environment
**Tuesday, June 6 at 8:00am** | Ballroom B

Dr. Redline’s research interests are primarily focused on conducting epidemiological studies designed to elucidate the etiologies of sleep disorders, including the role of genetic and early life developmental factors; and conducting epidemiological and clinical trials aimed at understanding the health outcomes and cardiovascular consequences of sleep disorders.
The 22nd Annual Sleep Research Society Trainee Symposia Series will be held Sunday, June 4, 2017, at the Hynes Convention Center. The event is free to SRS student members who registered by April 20, 2017. On-site registration for this program is NOT available.

**WORKSHOP 1: 8:00AM-9:00AM**

**Conducting Multidisciplinary Sleep Research**
**Room 108** Philip Gehrman, PhD | Terri Weaver, PhD, RN | Reut Gruber, PhD

**How to Get a Postdoc and Make the Most of It**
**Room 105** Sairam Parthasarathy, MD | Melynda Casement, PhD | Matthew Tucker, PhD

**Ways of Analyzing Actigraphy: From Summary Statistics to Applications to Circadian and Sleep Research**
**Room 103** Elizabeth Klerman, MD, PhD

**Sleep in the Digital Media Age**
**Room 111** Anne-Marie Chang, PhD

**Sleep, Circadian Rhythms and Neurodegeneration**
**Room 107** Aleksandar Videnovic, MD

**Efficient and Productive Writing**
**Room 104** Jessica Payne, PhD

**New Methods for Characterizing Sleep and Arousal Circuit Elements in the Behaving Animal**
**Room 109** Patrick Fuller, PhD

**Shift Work and Cardiovascular Health**
**Room 110** Anne Fink, PhD

**WORKSHOP 2: 9:10AM-10:10AM**

**Effects of Light Therapy on Sleep, Cognition and Behavior in Older Adults with Dementia**
**Room 109** Mariana Figueiro, PhD

**Sleep and Stress**
**Room 104** Christopher Drake, PhD

**Nightmares Among Military Service Members**
**Room 105** Kristi Pruiksma, PhD

**The Era of Big Data**
**Room 107** Susan Redline, MD

**Genetic and Genomics Approaches to Understand Sleep**
**Room 108** Paul Franken, PhD

**Building a Career in Sleep Research**
**Room 103** Mary A. Carskadon, PhD | Anne Germain, PhD | Sanjay R. Patel, MD

**Patient-Reported Outcomes in Sleep Medicine: Principles, Pitfalls and Practicalities**
**Room 110** Daniel J. Buysse, MD

**Sleep and Attention in Children and Adolescents**
**Room 111** Dean Beebe, PhD
TRAINEE DEVELOPMENT SUITE

The SRS Trainee Development Suite offers trainee members an opportunity to network with other trainees, experienced researchers, and mentors in sleep and circadian science throughout SLEEP 2017. The Suite is open during the meeting, with the exception of breakfast and lunch sessions which are ticketed events. These ticketed sessions are free, so check with registration to see if any tickets are still available!

WORKSHOP 3: 10:20AM-11:20AM

Sleep and Performance in Elite Athletes: From the Lab to the Athletic Field
Room 107 Cheri D. Mah, MS

School Start Times
Room 105 Judith Owens, MD | Kyla Wahlstrom, PhD | Amy Wolfson, PhD

Light Exposure and Circadian Rhythms
Room 104 Kenneth P. Wright Jr., PhD

Research into Practice
Room 108 Kelly Byars, PsyD | Bill Wohlgemuth, PhD

CDA/K-Development and Submittal
Room 109 Michael Grandner, PhD | Jason Ong, PhD | Phyllis Zee, MD, PhD

How to Conduct Systematic Reviews and Meta-analyses
Room 110 Nathaniel Marshall, PhD

Sleep and Addiction
Room 111 Subhajit (Babi) Chakravorty, MD

Judgment and Decision Making During Sleep Loss
Room 103 William Scott Killgore, PhD

WORKSHOP 4: 11:30AM-12:30PM

Sleep and Learning in Infants, Toddlers and Preschoolers
Room 108 Rebecca Gomez, PhD | Rebecca Spencer, PhD

Phenotypic Vulnerability to the Effects of Sleep Loss
Room 105 David Dinges, PhD

Alternate Career Pathways
Room 111 Joseph R. Owens, PhD | Allison Brager, PhD | Fiona Baker, PhD | Mark Rosekind, PhD

Quantitative EEG/PSG Analysis
Room 107 Ian Campbell, PhD

Sleep Circadian Rhythms and the Gut Microbiota
Room 104 Fred Turek, PhD

Focus on Grantsmanship: Specific Aims
Room 109 Michael Twery, PhD | Daniel Lewin, PhD | Katherine Sharkey, MD, PhD

Local Use-Dependent Sleep
Room 110 Christoph Nissen, MD

Sleep and Memory
Room 103 Robert Stickgold, PhD
The APSS will provide postgraduate course materials in an electronic format only.

Prior to the meeting, attendees who pre-registered were emailed instructions to download and print the course materials. Please note that the APSS will not supply computers or tablets to view the material or power for computers or tablets. It is imperative that attendees wishing to view the course materials on their laptops or tablets have them sufficiently powered prior to arrival at the meeting each day.

In order to register for postgraduate courses, you must be registered for SLEEP 2017.

The APSS does not offer registration to attend only postgraduate courses. All postgraduate courses require additional registration fees. Tickets for available sessions can be purchased at the SLEEP 2017 registration counters.

### C01: Year in Review 2017

**Ballroom B | 8:00AM-5:00PM**

**Chairs:** Anne Germain, PhD | Christine Won, MD

**Faculty:** Anthony Doufas, MD, PhD | Eric Kezirian, MD | Andrew Krystal, MD | Vahid Mohsenin, MD | Babak Mokhlesi, MD | Eric Musiek, MD, PhD | David Raizen, MD, PhD | Fred Turek, PhD

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<thead>
<tr>
<th>Time</th>
<th>Lecture Title</th>
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<tbody>
<tr>
<td>8:00am - 8:15am</td>
<td>Introduction</td>
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<tr>
<td>8:15am - 9:00am</td>
<td>OSA Treatment and Cardiometabolic Outcomes</td>
</tr>
<tr>
<td>9:00am - 9:45am</td>
<td>Sleep Apnea Surgery</td>
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<td>9:45am - 10:00am</td>
<td>Break</td>
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<tr>
<td>10:00am - 10:45am</td>
<td>Sleep and Pain</td>
</tr>
<tr>
<td>10:45am - 11:30am</td>
<td>Pharmacologic Therapies for Chronic Insomnia</td>
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<td>11:30am - 12:00pm</td>
<td>Q&amp;A</td>
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<tr>
<td>12:00pm - 1:00pm</td>
<td>Lunch (on your own)</td>
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<tr>
<td>1:00pm - 1:15pm</td>
<td>Introduction</td>
</tr>
<tr>
<td>1:15pm - 2:00pm</td>
<td>Management of Narcolepsy</td>
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<tr>
<td>2:00pm - 2:45pm</td>
<td>Sleep and Neurodegenerative Disease</td>
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<td>2:45pm - 3:00pm</td>
<td>Break</td>
</tr>
<tr>
<td>3:00pm - 3:45pm</td>
<td>The Science of Sleep: An Update</td>
</tr>
<tr>
<td>3:45pm - 4:30pm</td>
<td>Circadian Medicine</td>
</tr>
<tr>
<td>4:30pm - 5:00 pm</td>
<td>Q&amp;A</td>
</tr>
</tbody>
</table>
C02: Trends in Sleep Medicine

Ballroom A | 8:00AM-5:00PM

Chairs: Shalini Paruthi, MD | Kathleen Sarmiento, MD

Faculty: Fariha Abbasi-Feinberg, MD | Nancy Collop, MD | B. Gail Demko, DMD | Andrew Krystal, MD | Reena Mehra, MD | Mark Rosekind, PhD | Lynn Marie Trotti, MD

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<tr>
<th>Time</th>
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<tr>
<td>8:15am - 9:00am</td>
<td>Insomnia</td>
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<td>9:00am - 9:45am</td>
<td>Update in Hypersomnia Management</td>
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<td>9:45am - 10:00am</td>
<td>Break</td>
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<tr>
<td>10:00am - 10:45am</td>
<td>Sleep and Cardiovascular Disease</td>
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<td>10:45am - 11:30am</td>
<td>Oral Appliance Therapy</td>
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<td>Q&amp;A</td>
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<td>Lunch (on your own)</td>
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<tr>
<td>1:00pm - 1:15pm</td>
<td>Introduction</td>
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<tr>
<td>1:15pm - 2:00pm</td>
<td>MACRA/MIPs</td>
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<td>2:00pm - 2:45pm</td>
<td>Integrating Pediatric Sleep for the Non-pediatrician</td>
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<td>2:45pm - 3:00pm</td>
<td>Break</td>
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<tr>
<td>3:00pm - 3:45pm</td>
<td>Sleep and Transportation</td>
</tr>
<tr>
<td>3:45pm - 4:30pm</td>
<td>Top 10 Articles in JCSM</td>
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<tr>
<td>4:30pm - 5:00 pm</td>
<td>Q&amp;A</td>
</tr>
</tbody>
</table>

C03: Precision Sleep Medicine: Predictive, Preventive, Personalized and Participatory

Rooms 304/306 | 8:00AM-5:00PM

Chair: Philip Gehrman, PhD

Faculty: Kelly Baron, PhD | Matt Bianchi, MD, PhD | Julio Fernandez-Mendoza, PhD, CBSM | Clete Kushida, MD, PhD, RST, RPSGT | Emmanuel Mignot, MD, PhD | Allan Pack, PhD MBChB | Manuel Sanchez-de-la-Torre, PhD

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<th>Time</th>
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<tbody>
<tr>
<td>8:00am - 8:15am</td>
<td>Introduction</td>
</tr>
<tr>
<td>8:15am - 9:00am</td>
<td>What is Precision Medicine? An Overview</td>
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<tr>
<td>9:00am - 9:45am</td>
<td>Trial Designs for Precision Medicine</td>
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<tr>
<td>9:45am - 10:00am</td>
<td>Break</td>
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<tr>
<td>10:00am - 10:45am</td>
<td>Improving Phenotyping to Subtype Disease</td>
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<td>10:45am - 11:30am</td>
<td>Using mHealth Technology in Clinical Research</td>
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<td>11:30am - 12:00pm</td>
<td>Q&amp;A</td>
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<td>12:00pm - 1:00pm</td>
<td>Lunch (on your own)</td>
</tr>
<tr>
<td>1:00pm - 1:15pm</td>
<td>Introduction</td>
</tr>
<tr>
<td>1:15pm - 2:00pm</td>
<td>The Role of Genomics in Precision Medicine</td>
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<tr>
<td>2:00pm - 2:45pm</td>
<td>Integrating Biomarkers into Clinical Research</td>
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<td>2:45pm - 3:00pm</td>
<td>Break</td>
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<tr>
<td>3:00pm - 3:45pm</td>
<td>Integrating the Patient Perspective in Clinical Research</td>
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<tr>
<td>3:45pm - 4:30pm</td>
<td>Leveraging Big Data for Precision Medicine</td>
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<tr>
<td>4:30pm - 5:00 pm</td>
<td>Q&amp;A</td>
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</tbody>
</table>
C04: Difficult Cases That Keep You Up at Night: Case-based Review of Challenging Clinical Scenarios for the Sleep Medicine Specialist

Ballroom C | 8:00AM-12:00PM  
Chair: Raman Malhotra, MD

Faculty: Douglas Kirsch, MD | Timothy Morgenthaler, MD | David Plante, MD

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<tr>
<th>Time</th>
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<tr>
<td>8:00am - 8:15am</td>
<td>Introduction</td>
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<tr>
<td>8:15am - 9:00am</td>
<td>Hypersomnia Cases</td>
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<td>9:00am - 9:45am</td>
<td>The Sleepless Patient</td>
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<td>9:45am - 10:00am</td>
<td>Break</td>
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<tr>
<td>10:00am - 10:45am</td>
<td>Sleep-disordered Breathing Cases</td>
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<tr>
<td>10:45am - 11:30am</td>
<td>Insomnia Cases</td>
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<td>11:30am - 12:00pm</td>
<td>Q&amp;A</td>
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</table>

C05: Hang Ten on These Waves – EEG Essentials for the Sleep Practitioner

Room 302 | 8:00AM-12:00PM  
Chair: Bradley Vaughn, MD

Faculty: Carl Bazil, MD, PhD | Mithri Junna, MD | Erik St. Louis, MD

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:00am - 8:15am</td>
<td>Introduction</td>
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<tr>
<td>8:15am - 9:00am</td>
<td>Catch the Wave Basic Electronics in EEG Collection to Display</td>
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<td>9:00am - 9:45am</td>
<td>The Drop - EEG Patterns of Normal Variants Interictal and Ictal</td>
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<td>9:45am - 10:00am</td>
<td>Break</td>
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<tr>
<td>10:00am - 10:45am</td>
<td>Red Flags - Nocturnal Seizures Key Elements for Diagnosis</td>
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<td>10:45am - 11:30am</td>
<td>Gnarly Lickings, Distinguishing Parasomnias and Other Events in the Sleep Lab</td>
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<td>11:30am - 12:00pm</td>
<td>Q&amp;A</td>
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With the changes in healthcare and sleep medicine, new challenges are arising all the time.

The AASM is committed to providing the tools for high-quality patient-centered care through Advocacy, Education, Strategic Research and Practice Standards.

AASM GENERAL MEMBERSHIP MEETING

Network with colleagues  
Monday, June 5  
12:30pm to 1:45pm | Room 200

STILL NOT A MEMBER?

Save up to 50% with prorated membership dues pricing.

JOIN TODAY  
Visit the Society Booth!
C06: Treatment Advancements for Sleep-disordered Breathing

Ballroom C | 1:00PM-5:00PM
Chair: Karin Johnson, MD

Faculty: Melanie Pogach, MD | Bernardo Selim, MD | Ryan Soose, MD

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<th>Time</th>
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<tr>
<td>1:00pm - 1:15pm</td>
<td>Introduction</td>
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<tr>
<td>1:15pm - 2:00pm</td>
<td>Advances in Positive Airway Pressure Technology for Obstructive Sleep Apnea</td>
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<td>2:00pm - 2:45pm</td>
<td>Advances in Surgical Treatments for Obstructive Sleep Apnea</td>
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<td>2:45pm - 3:00pm</td>
<td>Break</td>
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<tr>
<td>3:00pm - 3:45pm</td>
<td>Advances in Treatment for Cheyne-Stokes Respiration and Complex Sleep Apnea</td>
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<tr>
<td>3:45pm - 4:30pm</td>
<td>Advances in Positive Airway Pressure Technology for Hypoventilation Syndromes</td>
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<td>4:30pm - 5:00 pm</td>
<td>Q&amp;A</td>
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C07: Managing and Treating Sleep and Sleepiness in Workplace Settings

Room 302 | 1:00PM-5:00PM
Chairs: Devon Grant, PhD

Faculty: Thomas Balkin, PhD | Francine James, PhD | Charles Samuels, MD

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<th>Time</th>
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<tr>
<td>1:00pm - 1:05pm</td>
<td>Introduction</td>
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<tr>
<td>1:05pm - 1:55pm</td>
<td>Sleep and Performance: The State of the Science</td>
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<td>1:55pm - 2:45pm</td>
<td>Fatigue Risk Management Initiatives in Transportation</td>
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<td>2:45pm - 3:00pm</td>
<td>Break</td>
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<tr>
<td>3:00pm - 3:50pm</td>
<td>Sleep Disorders and Shift Work: Performance Impairment in the Workplace</td>
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<td>3:50pm - 4:40pm</td>
<td>Cases in Occupational Sleep Medicine: The Role of the Sleep Physician/Clinician</td>
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<tr>
<td>4:40pm - 5:00 pm</td>
<td>Q&amp;A</td>
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Postgraduate Courses are ticketed sessions

The SRS serves its members & the field of sleep research through training and education, and by providing forums for the collaboration and the exchange of ideas.

SRS GENERAL MEMBERSHIP MEETING

Network with colleagues

Tuesday, June 6
12:20pm to 1:30pm | Room 200

STILL NOT A MEMBER?
Join now & take advantage of our lowest membership dues pricing.

JOIN TODAY
Visit the Society Booth!
**C08: 2017 State of the Art for Clinical Practitioners**

**Ballroom B | 8:00AM-5:00PM**

**Chairs:** Glen Greenough, MD | Shalini Paruthi, MD

**Faculty:** Alon Avidan, MD | Nancy Collop, MD | Shahrokh Javaheri, MD | Raman Malhotra, MD | Kiran Maski, MD | Michael Sateia, MD | John Winkelman, MD, PhD | Lisa Wolfe, MD

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<tr>
<td>8:00am - 8:15am</td>
<td>Introduction</td>
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<tr>
<td>8:15am - 9:00am</td>
<td>REM Sleep Behavior Disorder</td>
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<td>9:00am - 9:45am</td>
<td>Restless Legs Syndrome: Progress and Pitfalls</td>
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<td>9:45am - 10:00am</td>
<td>Break</td>
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<td>10:00am - 10:45am</td>
<td>Central Sleep Apnea</td>
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<td>10:45am - 11:30am</td>
<td>Current Pitfalls in the Diagnosis and Management of OSA</td>
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<td>11:30am - 12:00pm</td>
<td>Q&amp;A</td>
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<td>12:00pm - 1:00pm</td>
<td>Lunch (on your own)</td>
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<tr>
<td>1:00pm - 1:15pm</td>
<td>Introduction</td>
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<tr>
<td>1:15pm - 2:00pm</td>
<td>Pediatric Sleep Medicine</td>
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<td>2:00pm - 2:45pm</td>
<td>Nocturnal Hypoventilation</td>
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<td>2:45pm - 3:00pm</td>
<td>Break</td>
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<tr>
<td>3:00pm - 3:45pm</td>
<td>Advances in Evaluation and Management of Chronic Insomnia</td>
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<tr>
<td>3:45pm - 4:30pm</td>
<td>Evolving Practice of Sleep Medicine: Collaboration, Innovation, and New Regulations</td>
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<td>4:30pm - 5:00 pm</td>
<td>Q&amp;A</td>
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**C09: Behavioral Sleep Medicine: Evidence-and Case-based Treatment of Special Populations**

**Ballroom A | 8:00AM-5:00PM**

**Chair:** James Wyatt, PhD

**Faculty:** Mark Aloia, PhD | Todd Arnedt, PhD | Jack Edinger, PhD | Anne Germain, PhD | Jennifer Martin, PhD | Lisa Meltzer, PhD | Michael Smith, PhD

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<th>Time</th>
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<tr>
<td>8:00am - 8:15am</td>
<td>Introduction</td>
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<tr>
<td>8:15am - 9:00am</td>
<td>CBT-I and Hypnotics: Oil and Water or Happy Company?</td>
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<tr>
<td>9:00am - 9:45am</td>
<td>Substance Users</td>
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<td>9:45am - 10:00am</td>
<td>Break</td>
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<td>10:00am - 10:45am</td>
<td>Behavioral Sleep Interventions for Children with Medical, Psychiatric or Neurodevelopmental Disorders</td>
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<td>10:45am - 11:30am</td>
<td>Older Adults</td>
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<td>11:30am - 12:00pm</td>
<td>Q&amp;A</td>
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<td>12:00pm - 1:00pm</td>
<td>Lunch (on your own)</td>
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<tr>
<td>1:00pm - 1:15pm</td>
<td>Introduction</td>
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<tr>
<td>1:15pm - 2:00pm</td>
<td>PTSD</td>
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<td>2:00pm - 2:45pm</td>
<td>Shift Workers</td>
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<td>2:45pm - 3:00pm</td>
<td>Break</td>
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<td>3:00pm - 3:45pm</td>
<td>Non-Adherent PAP Users</td>
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<td>3:45pm - 4:30pm</td>
<td>Pain Disorders</td>
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<td>4:30pm - 5:00 pm</td>
<td>Q&amp;A</td>
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</table>
### C10: Adolescent Sleep Medicine: State of the Art 2017

**Rooms 304/306 | 8:00AM-5:00PM**  
**Chair:** Madeleine Grigg-Damberger, MD | Sanjeev Kothare, MD  
**Faculty:** Anna Ivanenko, MD, PhD | Umakanth Khatwa, MD | Suresh Kotagal, MBBS | AnneMarie Morse, DO | Carol Rosen, MD | Matthew Troester, DO

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<th>Time</th>
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<tbody>
<tr>
<td>8:00am - 8:15am</td>
<td>Introduction</td>
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<tr>
<td>8:15am - 9:00am</td>
<td>Adolescent Brain Development:</td>
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<td>9:00am - 9:45am</td>
<td>Sleep Apnea in Adolescents:</td>
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<td>9:45am - 10:00am</td>
<td>Break</td>
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<td>10:00am - 10:45am</td>
<td>Insomnia in Adolescents:</td>
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<tr>
<td>10:45am - 11:30am</td>
<td>Circadian Rhythm Disorders in Adolescents:</td>
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<td>11:30am - 12:00pm</td>
<td>Q&amp;A</td>
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<td>12:00pm - 1:00pm</td>
<td>Lunch (on your own)</td>
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<tr>
<td>1:00pm - 1:15pm</td>
<td>Introduction</td>
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<td>1:15pm - 2:00pm</td>
<td>Nocturnal Events in Adolescents: Challenges and Solutions</td>
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<td>2:00pm - 2:45pm</td>
<td>Hypersomnias in Adolescents</td>
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<td>2:45pm - 3:00pm</td>
<td>Break</td>
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<tr>
<td>3:00pm - 3:45pm</td>
<td>Sleep Disorders in Adolescents with Traumatic Brain Injury:</td>
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<td>3:45pm - 4:30pm</td>
<td>Sleep Disorders in Adolescents with Medical Disorders:</td>
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<td>4:30pm - 5:00 pm</td>
<td>Q&amp;A</td>
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### C11: Evolving Your Sleep Practice to Meet the Needs of an Ever Changing Healthcare World

**Ballroom C | 8:00AM-12:00PM**  
**Chair:** Neil Freedman, MD  
**Faculty:** Amy Aronsky, DO | Conrad Iber, MD | Timothy Morgenthaler, MD

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<thead>
<tr>
<th>Time</th>
<th>Lecture Title</th>
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<tbody>
<tr>
<td>8:00am - 8:15am</td>
<td>Introduction: Understanding the Challenges of Practicing Sleep Medicine in the Future</td>
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<tr>
<td>8:15am - 9:00am</td>
<td>Changes in Reimbursement: MACRA, Value Based Payments and Beyond</td>
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<tr>
<td>9:00am - 9:45am</td>
<td>Data Management, Quality Improvement and Quality Reporting</td>
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<td>9:45am - 10:00am</td>
<td>Break</td>
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<tr>
<td>10:00am - 10:45am</td>
<td>Moving Toward Virtual Care</td>
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<tr>
<td>10:45am - 11:30am</td>
<td>Managing Your Human Resources: Hiring for Fit, Dealing with Conflict and Reducing Costs with Non-Physician Providers</td>
</tr>
<tr>
<td>11:30am - 12:00pm</td>
<td>Q&amp;A</td>
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</table>
C12: Sleep Disturbances and Cancer: An Emerging Relationship
Room 302 | 8:00AM-12:00PM
Chair: Isaac Almendros, PhD
Faculty: Sonia Ancoli-Israel, PhD | Javier Nieto, MD, PhD | Eva Schernhammer, MD

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<th>Time</th>
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<tr>
<td>8:00am - 8:15am</td>
<td>Introduction</td>
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<tr>
<td>8:15am - 9:00am</td>
<td>Association of Sleep Apnea and Cancer: From Animal Studies to Human Epidemiological and Clinical Data</td>
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<tr>
<td>9:00am - 9:45am</td>
<td>Obstructive Sleep Apnea and Cancer: Biological Plausibility</td>
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<td>9:45am - 10:00am</td>
<td>Break</td>
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<tr>
<td>10:00am - 10:45am</td>
<td>Non-apneic Sleep Alterations and Cancer</td>
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<tr>
<td>10:45am - 11:30am</td>
<td>Sleep, Fatigue, Circadian Rhythms and Cognition: What We Know About Their Relationships and Changes Over Time in Cancer</td>
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<td>11:30am - 12:00pm</td>
<td>Q&amp;A</td>
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C13: The Holy Grail of Clinical Sleep Medicine: Measuring and Reporting Meaningful Outcomes
Ballroom C | 1:00PM-5:00PM
Chair: Daniel Lewin, PhD
Faculty: Dean Beebe, PhD | Vincent Capaldi, MD | Anne Germain, PhD

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<th>Time</th>
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<td>1:00pm - 1:15pm</td>
<td>Introduction</td>
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<tr>
<td>1:15pm - 2:00pm</td>
<td>The Rationale for Measuring and Communicating Outcomes and Integrating them into Quality Metrics in Clinical Practice and Research</td>
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<td>2:00pm - 2:45pm</td>
<td>Pediatrics: Objective and Subjective Measures to Assess Insufficient Sleep and its Consequences in Children and Adolescents</td>
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<td>2:45pm - 3:00pm</td>
<td>Break</td>
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<td>3:00pm - 3:45pm</td>
<td>Adult Subjective Measures of Key Outcomes Relevant to Insomnia, OSA, Narcolepsy and Circadian Rhythm Disorders</td>
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<td>3:45pm - 4:30pm</td>
<td>Objective Measures: Linking Sleep to Operationally Relevant Performance Metrics and Biomarkers</td>
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<tr>
<td>4:30pm - 5:00 pm</td>
<td>Q&amp;A</td>
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# C14: RLS Treatment Advances in the Post-Mainly-Dopamine Era: Augmentation, Alpha-2-Delta Agents, Opioids, Iron, Pediatric Care and those Intractable Cases

Room 302 | 1:00PM-5:00PM  
**Chair:** Richard Allen, PhD  
**Faculty:** Diego Garcia-Borreguero, MD, PhD | Christopher Earley, PhD | Daniel Picchietti, MD

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<tr>
<th>Time</th>
<th>Lecture Title</th>
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<tr>
<td>1:00pm - 1:15pm</td>
<td>Introduction</td>
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<td>1:15pm - 2:00pm</td>
<td>Dopamine RLS Augmentation (Early Identification and Treatment) and the Alternative Use of Alpha-2-Delta Agents as First and Second Line of Treatment</td>
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<td>2:00pm - 2:45pm</td>
<td>Opioids: Role as 2nd Line Treatment, Choices Managing Adverse Side-Effects, Regulatory Concerns</td>
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<td>3:00pm - 3:45pm</td>
<td>Oral and IV Iron Treatments: Special Consideration of Iron Deficiency</td>
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<td>3:45pm - 4:30pm</td>
<td>Pediatric RLS: Diagnosis, PLMS, Evaluation and Treatment Options</td>
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<tr>
<td>4:30pm - 5:00 pm</td>
<td>Q&amp;A</td>
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Seating

Open-seating sessions are filled on a first-come, first-served basis. The APSS does its best to match room size with anticipated demand; however, interest in a topic occasionally exceeds seating capacity. Seating limits are strictly enforced by the Convention Center Fire Marshal. We encourage you to arrive at meeting rooms as early as possible for best seating.

Poster Set-Up

12:00pm – 1:00pm

Exhibit Hall B

Posters should be set-up during this time and should not be removed until 7:00pm

SLEEP 2017 APP

Don’t forget! All this info and more is available through our app.

Download Today

Available for iOS and Android
O01: Circadian Rhythms, Activity and Sleep Assessment
1:00pm-3:00pm  |  Room 210
Co-chairs: Saurabh Thosar, PhD and Andrew McHill, PhD

0062  1:00pm-1:15pm
EVENING LIGHT EXPOSURE FROM COMPUTER SCREENS DISRUPTS SLEEP, BIOLOGICAL RHYTHMS AND ATTENTION ABILITIES
Green A, Cohen-Zion M, Haim A, Dagan Y

0063  1:15pm-1:30pm
UNEXPECTED INCREASE IN MELATONIN CONCENTRATIONS DURING DAYTIME SLEEP IN SIMULATED NIGHT WORK PROTOCOL

0064  1:30pm-1:45pm
DELAYED EATING ADVERSELY IMPACTS WEIGHT AND METABOLISM COMPARED WITH DAYTIME EATING IN NORMAL WEIGHT ADULTS
Goel N, Hopkins C, Ruggieri M, Ahima RS, Allison KC

0065  1:45pm-2:00pm
RESTING ENERGY EXPENDITURE VARIES WITH CIRCADIAN PHASE IN NON-OBESE OLDER ADULTS

0066  2:00pm-2:15pm
DIURNAL REPEATED PHYSICAL EXERCISE PROMOTES SLOW WAVE ACTIVITY AND FAST-SIGMA POWER IN ACCORDANCE WITH CHANGE OF DISTAL PROXIMAL SKIN TEMPERATURE GRADIENT AND CORE BODY TEMPERATURE DURING NOCTURNAL SLEEP

0067  2:15pm-2:30pm
COMPUTATIONAL PHENOTYPING IN POLYSOMNOGRAPHY: USING INTERPRETABLE PHYSIOLOGY-BASED MACHINE LEARNING MODELS TO PREDICT HEALTH OUTCOMES
Fernandez C, Rusk S, Glattard N, Shokoueinejad M

0068  2:30pm-2:45pm
ESTIMATION OF SLEEP STAGES USING CARDIAC AND ACCELEROMETER DATA FROM A WRIST-WORN DEVICE
Beattie Z, Pantelopoulos A, Ghoreyshi A, Oyang Y, Statan A, Heneghan C

0069  2:45pm-3:00pm
DEVELOPMENT AND VALIDATION OF AN ALGORITHM FOR THE STUDY OF SLEEP USING A BIOMETRIC SHIRT IN YOUNG HEALTHY ADULTS
Pion-Massicotte J, Chicoine M, Chevrier E, Roy J, Savard P, Godbout R

S01: Innovative Application of in vivo Molecular Neuroimaging for Sleep Research in Humans
1:00pm-3:00pm  |  Room 311
Chair: Bryce Mander, PhD

1:00pm-1:05pm  Introduction
Bryce Mander, PhD

1:05pm-1:30pm  Potentiation or Depotentiation: Analysis of Circuit-Specific Protein Synthesis in the Human Brain During Sleep
Dante Picchioni, PhD

1:30pm-1:55pm  Aß and Tau in Healthy Older Adults, Impact on Sleep and Sleep-Dependent Memory
Bryce Mander, PhD

1:55pm-2:20pm  Sleep Deprivation and Brain Function: Dopamine Receptors, fMRI Activation and Cocaine Addiction
Dardo Tomas, PhD

2:20pm-2:45pm  Plasticity of Human Neurotransmitter Receptors in Relation to Altered Sleep-Wake Patterns
David Elmenhorst, MD

2:45pm-3:00pm  Panel Discussion
Faculty
S02: Role of Fast Neurotransmitters in Sleep-wake Regulation

1:00pm-3:00pm | Room 309  
Chair: Clifford Saper, MD, PhD

1:00pm-1:30pm  
Subcortical Control of Sleep and Wake  
Antoine Adamantidis, PhD

1:30pm-2:00pm  
Investigating LHGABA Circuitry Underlying Arousal  
Anne Venner, PhD

2:00pm-2:30pm  
A Brainstem Circuit Gating REM Sleep  
Franz Weber, PhD

2:30pm-3:00pm  
The Role of Fast Transmitters in the Caudal Hypothalamic Control of Wakefulness  
Nigel Pedersen, MD

0073  
3:15pm-3:30pm  
SLEEP DEPRIVATION EXACERBATES ALCOHOL-INDUCED TOXICITY IN DROSOPHILA  
De Nobrega AK, Noakes EJ, Lyons LC

0074  
3:30pm-4:00pm  
ROLE OF SLEEP RESTRICTION IN ADIPOCYTE INSULIN SENSITIVITY DURING AN INTRAVENOUS GLUCOSE TOLERANCE TEST IN HEALTHY ADULT MEN  
Ness KM, Ramos AJ, Chang A, Shearer GC, Buxton OM

0075  
4:00pm-4:15pm  
IMMUNIZATION WITH HEAT-KILLED MYCOBACTERIUM VACCÆ INCREASES TOTAL SLEEP AND REM SLEEP AND CHANGES NREM ARCHITECTURE IN MICE  
Bowers SJ, Olker CJ, Song E, Wright KP, Fleshner M, Lowry CA, Vitaterna MH, Turek FW

0076  
4:15pm-4:30pm  
DYNAMIC CHANGES IN HUMAN INNATE AND ADAPTIVE IMMUNE CELL NUMBERS IN RESPONSE TO SLEEP EXTENSION AND SLEEP DEPRIVATION  

0077  
4:30pm-4:45pm  
INVESTIGATING THE EFFECT OF ACUTE SLEEP DEPRIVATION ON HYPOTHALAMIC-PITUITARY-ADRENAL-AXIS RESPONSE TO A PSYCHOSOCIAL STRESSOR  

0078  
4:45pm-5:00pm  
ROLE OF GLUTAMATE RECEPTORS DURING SLEEP DEPRIVATION  
Larin AA, Karpova SA, Kim Y, McCarley RW, Basheer R, Kainchuk AV

0079  
5:00pm-5:15pm  
TWO NOVEL ADENOSINE ANALOGUES AS HYPNOTICS  
Yi P, Tsai C, Chang F
**S03: Using Big Data Approaches to Elucidate the Genetic Basis of Normal and Disordered Sleep**

3:15pm-5:15pm | Room 311  
**Chair:** Richa Saxena, PhD

- **3:15pm-3:20pm**  
  **Introduction**  
  Richa Saxena, PhD

- **3:20pm-3:50pm**  
  **New Insights into the Genetics of Sleep Patterns from Genome-Wide Association Studies of 500,000 Individuals**  
  Michael Weedon, MD

- **3:50pm-4:20pm**  
  **Large-Scale Quantitative and Genetic Analyses of the Sleep EEG**  
  Shaun Purcell, PhD

- **4:20pm-4:45pm**  
  **Linkage, Association and Genome-Sequencing to Discover the Genetic Basis of Sleep Apnea**  
  Brian Cade, PhD

- **4:45pm-5:15pm**  
  **Genetics of Narcolepsy**  
  Emmanuel Mignot, MD, PhD

**S04: Sleep Circuits Visualized with new Genetically Engineered Tools**

3:15pm-5:15pm | Room 309  
**Chair:** Priyattam Shiromani, PhD

- **3:15pm-3:40pm**  
  **Sleep-Wake Network**  
  Barbara E. Jones, PhD

- **3:40pm-4:05pm**  
  **Sleep-Active Neurons in the Cerebral Cortex**  
  Dmitry Gerashchenko, MD, PhD

- **4:05pm-4:30pm**  
  **MCH Neurons Drive Sleep in Mammals**  
  Priyattam Shiromani, PhD

- **4:30pm-4:55pm**  
  **Parafacial Zone Sleep-Promoting Neurons in the Brainstem**  
  Christelle Anaclet, PhD

- **4:55pm-5:15pm**  
  **Unraveling the Hypothalamic Circuits Controlling Sleep**  
  Shinjae Chung, PhD

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**Poster Presentations**

5:00pm – 7:00pm | Exhibit Hall B

SLEEP 2017 will feature cash bar receptions in the Poster Hall on Sunday, Monday and Tuesday evenings. This is your opportunity to explore the Poster Hall, discuss the discoveries in the field and network with colleagues.

See the SLEEP 2017 mobile app for a complete listing of posters.
O03: Pediatric Sleep: Actigraphs to ZZZs
10:30am-12:30pm  |  Room 210
Chair: Jamie Haas, MD

0904  10:30am-10:45am  
ACTIGRAPHIC VALUES IN CHILDREN AND ADOLESCENTS: WHAT IS NORMAL?
Meltzer LJ, Short MA, Booster GD, Peightal AA, Grisard MS, Marco CA, Wolfson AR, Carskadon MA

0905  10:45am-11:00am  
DEVELOPMENT OF THE PROMIS® SLEEP HEALTH MEASURES FOR CHILDREN AND ADOLESCENTS
Meltzer LJ, Bevans KB, de la Motte A, Becker BD, Buysse DJ, Kratchman AL, Marcus CL, Mindell JA, Pilkonis PA, Viel D, Forrest CB

0899  11:00am-11:15am  
INVOLVING COMMUNITY PARTNERS IN PARENT-BASED SLEEP EDUCATION

0900  11:15am-11:30am  
NATURAL HISTORY OF INSOMNIA SYMPTOMS AND INCIDENCE OF PSYCHIATRIC DISORDERS: ROLE OF CHILDHOOD-ONSET, ADOLESCENCE-ONSET AND FULL REMISSION

0906  11:30am-11:45am  
LIGHT FLASHES DURING SLEEP WITH ADJUNCT COGNITIVE BEHAVIORAL THERAPY INCREASES SLEEP IN TEENS
Kaplan K, Mashash M, Williams R, Batchelder H, Starr-Glass L, Zeitzer J

0645  11:45am-12:00pm  
A DOUBLE-BLIND, PLACEBO-CONTROLLED, RANDOMIZED-WITHDRAWAL, MULTICENTER STUDY ON THE EFFICACY AND SAFETY OF SODIUM OXYBATE IN PEDIATRIC SUBJECTS WITH NARCOLEPSY WITH CATAPLEXY
0907 12:00pm-12:15pm
**INCREASED CASES OF CHILDHOOD NARCOLEPSY AFTER THE 2009 H1N1 PANDEMICS: PRELIMINARY DATA FROM THE PEDIATRIC WORKING GROUP OF THE SLEEP RESEARCH NETWORK**

0908 12:15pm-12:30pm
**SCHOOL START TIMES AFTER 8:30 AM PREDICT THIRTY MINUTES LONGER SLEEP DURATION IN TEENS FROM A NATIONAL URBAN COHORT**
Nahmod NG, Lee S, Buxton OM, Hale L

**O04: Effect of Sleep Disturbances on Mood, Cognition and Athletic Performance**
10:30am-12:30pm | Room 304/306

**Co-chairs:** Julie Carrier, PhD and Derk-Jan Dijk, PhD

0749 10:30am-10:45am
**SLEEP LOADING IMPROVES VISUAL SEARCH RESPONSE TIME AND REDUCES FATIGUE IN PROFESSIONAL BASEBALL PLAYERS**
Mah CD, Anguera JA, Gazzaley A, Luke A

0750 10:45am-11:00am
**SLEEP DURATION AND QUALITY ARE ASSOCIATED WITH PERFORMANCE ON A COGNITIVELY TAXING GAIT TASK**
Hagen EW, Ramuson AT, Bliwise DL, Peppard PE

0751 11:00am-11:15am
**EXPLORING SELF-REPORTED STRESS DURING SLEEP EXTENSION AND SLEEP DEPRIVATION**
Prindle N, Trach SK, Mahfouz SH, Ratcliffe RH, Moore LT, Yarnell AM, Capaldi VF, Balkin TJ, Simonelli G, Doty TJ

0752 11:15am-11:30am
**THE EFFECT OF SLEEP ON OVERNIGHT MEMORY RETENTION IN OLDER ADULTS**
Kawai M, O’Hara R

0753 11:30am-11:45am
**REPETITIVE SLEEP RESTRICTION AND SLEEP DISRUPTION LEADS TO ELEVATED SLEEPINESS AND FATIGUE THAT FAIL TO RESOLVE WITH A SINGLE NIGHT OF RECOVERY SLEEP**
Devine JK, Haack M, Yang H, Mullington J

0754 11:45am-12:00pm
**ASSOCIATIONS BETWEEN SLEEP EFFICIENCY AND COGNITIVE FUNCTION IN THE MULTI-ETHNIC STUDY OF ATHEROSCLEROSIS (MESA)**

0147 12:00pm-12:15pm
**FROM THE HOME TEAM TO HOME RUNS: HOW JET LAG IMPACTS MAJOR LEAGUE BASEBALL**
Song A, Severini T, Allada R

0148 12:15pm-12:30pm
**ASSOCIATION BETWEEN LATE-NIGHT TWEETING AND NEXT DAY GAME PERFORMANCE AMONG NBA BASKETBALL PLAYERS**
Jones JJ, Kirschen G, Kancharla S, Hale L

**O05: Functional Circuitry of CNS State**
10:30am-12:30pm | Room 311

**Co-chairs:** Clifford Saper, MD, PhD and Elda Arrigoni, PhD

0117 10:30am-10:45am
**GENETIC DISSECTION OF NEURAL PATHWAYS INVOLVED IN REM SLEEP REGULATION BY MELANIN-CONCENTRATING HORMONE NEURONS**
Kroeger D, Saper CB, Vetrivelan R

0118 10:45am-11:00am
**DISTRIBUTION OF MCH NEURONS AND THEIR PROJECTIONS IN A CLARITY CLEARED MOUSE BRAIN**

0119 11:00am-11:15am
**A DEDICATED BRAINSTEM CIRCUIT CONTROLS REM SLEEP**
Fraigne JJ, Torontali ZA, Thomasian A, Li DW, Peever JH

0120 11:15am-11:30am
**SUPRA-SPINAL NEURAL CIRCUITRY REGULATING RESTLESS LEGS SYNDROME (RLS)**
Guo C, Yang W, Zhan S, Yang X, Chen M, Fuller P, Lu J

0121 11:30am-11:45am
**A LOCAL GABAERGIC CIRCUIT CONTROLLING OREXIN NEURONS**
Ferrari LL, Park D, Zhu L, Arrigoni E
S06: Cardiometabolic Risk in Chronic Insomnia

10:30am-12:30pm | Ballroom A
Chair: Babak Mokhlesi, MD

10:30am-11:00am  Cardiometabolic Risk in Insomnia with Short Sleep Duration: Interplay of the Stress and Immune Systems
Julio Fernandez-Mendoza, PhD, CBSM

11:00am-11:30am  Insomnia and Cardiometabolic Risk: Epidemiologic Evidence
Kristen Knutson, PhD

11:30am-12:00pm  Sympathetic Neural Activity in Chronic Insomnia
Jason Carter, PhD

12:00pm-12:30pm  Norepinephrine Regulation in Older Adults with Chronic Insomnia
Daniela Grimaldi, MD, PhD

S07: Why Rocking Around the Clock Might Not be Good for Your Health

10:30am-12:30pm | Room 302
Chair: Kathryn Reid, PhD

10:30am-10:35am  Introduction
Kathryn Reid, PhD

10:35am-11:05am  Environmental Circadian Disruption in Animal Models: Mortality, Inflammation and Stroke
Alec Davidson, PhD

11:05am-11:35am  Critical Role of Circadian Rhythms and Sleep for Clinical Cardiology
Tami Martino, PhD

11:35am-12:05pm  The Health Effects of Circadian and Sleep Disruptions in Humans: Cancer and Beyond
Eva Schernhammer, MD

12:05pm-12:30pm  Circadian Synchronizing Agents: Implications for Human Sleep and Health
Kathryn Reid, PhD
S08: TAAR1: A Negative Regulator of Dopamine Release and a Novel Target for Sleep/Wake Medications
10:30am-12:30pm  |  Room 309
Chair: Thomas Kilduff, PhD
10:30am-11:00am  The Role of Dopamine in Sleep/Wake and Movement Disorders
Juliane Winkelmann, MD
11:00am-11:30am  TAARgeting Sleep Disorders: Trace Amine – Amphetamine Receptor 1 is a Novel Integrator of Metabolism, Neuroendocrine Status and Circadian Rhythms
David Grandy, PhD
11:30am-12:00pm  TAAR1 Agonists are Wake-Promoting and REM Sleep-Suppressing in Rodents
Michael Schwartz, PhD
12:00pm-12:30pm  TAAR1 Agonists as Potential Narcolepsy Therapeutics
Thomas Kilduff, PhD

W01: Oral and Intravenous Iron Treatment of Restless Legs Syndrome in Adults and Children: Why, When, and How
10:30am-12:30pm  |  Ballroom C
Chair: Daniel Picchietti, MD
10:30am-10:35am  Introduction
Daniel Picchietti, MD
10:35am-10:45am  Brain Iron Deficiency in RLS
Richard Allen, PhD
10:45am-10:55am  Body Iron – How is it Regulated and Assessed?
Christopher Earley, PhD, MBBCh
10:55am-11:05am  Oral Iron in Adults – Efficacy and Limitations
John Winkelman, MD, PhD
11:05am-11:25am  Intravenous Iron in Adults – Which Type and How
Richard Allen, PhD
11:25am-11:40am  Intravenous Iron in Adults - Safety
Michael Auerbach, MD

IRON FOR PEDIATRIC RLS AND PLMD
Suresh Kotagal, MD

INTERNATIONAL RLS STUDY GROUP
Clinical Practice Guidelines for the Iron Treatment of RLS
Daniel Picchietti, MD

Discussion
Faculty

AASM General Membership Meeting
12:30pm - 1:45pm  |  Room 200

LBA: Late-Breaking Abstracts
12:45pm-1:45pm  |  Room 302
Complete abstracts available on page 85. These sessions do not qualify for CME or CE for Psychologists.

LBA 1 12:45pm-1:00pm
BLUNTED EMOTIONAL INTENSITY FOLLOWING REPEATED EXPOSURE TO SLEEP RESTRICTION
Olia K, Minkel J, Haack M

LBA 2 1:00pm-1:15pm
GENETIC ASSOCIATION OF DAT1 GENETIC VARIANTS WITH SLEEP DURATION
Rhodes J, Lane JM, Vlasac I, Czeisler C, Saxena R

LBA 3 1:15pm-1:30pm
ß-Adrenergic Blockade as a Novel Pharmacotherapy for Obstructive Sleep Apnea
Poon C and Song G

LBA 4 1:30pm-1:45pm
UPPER AIRWAY STIMULATION THERAPY UTILIZED AS A RESCUE PROCEDURE FOR FAILED SLEEP SURGERY
Huntley C, Doghramji K, Boon M

DOWNLOAD OUR APP  |  56
L01: The Synaptic Basis of Sleep Function: SHY vs Synaptic Enhancement of Sleep
12:45pm-1:45pm  |  Room 103
Pre-registration is required.
CE Credits for Psychologists are not available for this session.
Speakers: Chiara Cirelli, MD, PhD and Ted Abel, PhD

E01: Thomas Kilduff, PhD
Room 303
E02: Judith Owens, MD
Room 305
E03: Honorable Mark R. Rosekind, PhD
Room 308

I02: Pre-Operative Screening for Sleep Apnea and CPAP Treatment: Is This Evidence-Based?
1:45-2:45pm  |  Ballroom B
Frances Chung, MD (Bio on page 37)

I03: Sleep, Wake and the Self-Tuning Brain
1:45-2:45pm  |  Room 302
Gina Turrigiano, PhD (Bio on page 38)

O06: Hypersomnia: Prevalence and MRI Findings
1:45pm-2:45pm  |  Room 304/306
Co-chairs: Nancy Foldvary-Schaefer, DO and Kiran Maski, MD

0646  1:45pm-2:00pm
THE PREVALENCE OF HYPERSOMNOLENCE, ITS CORRELATES AND ASSOCIATED ROLE IMPAIRMENT IN THE NATIONAL COMORBIDITY SURVEY REPLIATION (NCS-R)
Kolla B, He J, Mansukhani MP, Frye M, Merikangas K

0647  2:00pm-2:15pm
PREVALENCE, INCIDENCE AND CHRONICITY OF EXCESSIVE SLEEPINESS IN A LONGITUDINAL STUDY OF NARCOLEPTIC FAMILY MEMBERS
Ohayon MM

0648  2:15pm-2:30pm
NARCOLEPSY SPECTRUM DISORDER IN 378 PARENTS OF PATIENTS WITH TYPE 1 NARCOLEPSY-CATAPLEXY
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<td><strong>STRUCTURAL BRAIN ABNORMALITIES IN IDIOPATHIC HYPERSONMIA</strong></td>
<td>Pomares F, Boucetta S, Montplasir J, Lachapelle F, Cha J, Kim H, Dang-Vu T</td>
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<td><strong>INSOMNIA WITH OBJECTIVE SHORT SLEEP DURATION AND ALL-CAUSE MORTALITY: SLEEP HEART HEALTH STUDY</strong></td>
<td>Bertisch S, Pollock B, Mittleman MA, Bazzano LA, Buysse DJ, Gottlieb DJ, Redline S</td>
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<td><strong>CARDIOVASCULAR AUTONOMIC DYSFUNCTION IN PATIENTS WITH INSOMNIA AND OBJECTIVE SHORT SLEEP DURATION</strong></td>
<td>Jarrin DC, Ivers H, Lamy M, Chen IY, Harvey AG, Morin CM</td>
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<td><strong>DOES OBJECTIVE SLEEP DURATION MODERATE TREATMENT RESPONSE IN PATIENT WITH COMORBID DEPRESSION AND INSOMNIA? A REPORT FROM THE TRIAD STUDY</strong></td>
<td>Edinger JD, Manber R, Krystal AD, Buysse DJ</td>
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<td><strong>FINE MAPPING GENOME-WIDE ASSOCIATION IN NARCOLEPSY DEFINES NOVEL DISEASE MECHANISMS</strong></td>
<td>Ollila HM, Hillary R, Lin L, Hallmayer J, Han F, Ye J, Mignot E</td>
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<td><strong>DAT1 GENOTYPE MODULATES THE TIME-ON-TASK EFFECT ON THE PVT DURING TOTAL SLEEP DEPRIVATION</strong></td>
<td>Satterfield BC, Wisor JP, Schmidt MA, Van Dongen H</td>
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<td><strong>GENOME-WIDE ASSOCIATION STUDY FOR SNORING IDENTIFIES NOVEL GENETIC FACTORS AND BIOLOGICAL LINKS TO SLEEP APNEA AND OBESITY</strong></td>
<td>Lane JM, Vlasac I, Redline S, Ray D, Rutter M, Saxena R</td>
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Exhibit Hall Refreshment Break
2:45pm-3:00pm

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**D01: Update on Sleep/Circadian Research Activities from NIH**
3:00pm-5:00pm | Room 302
**Chair:** Allan Pack, PhD, MBChB
**Faculty:** Janet He, PhD | Miroslaw Mackiewicz, PhD | Karen Teff, PhD | Michael Twery, PhD

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**F01: Innovative Interventions Targeting the Intersection of Sleep and Mental Health Disorders**
3:00pm-5:00pm | Ballroom C
**Chair:** Nicholas Allen, PhD

- **3:00pm-3:05pm**
  - *Introduction*
  - Nicholas Allen, PhD

- **3:05pm-3:25pm**
  - *Manipulating Electronic Screen Temperature to Improve Sleep Quality in College Students: A Brief RCT*
  - Alec Smidt

- **3:25pm-3:45pm**
  - *The Effect of Portable Short Wavelength Light Therapy on Advances in Circadian Rhythm in Adults with Tourette’s Disorder*
  - Emily Ricketts, PhD

- **3:45pm-4:05pm**
  - *Exercise Effects on the Circadian Rhythm of Adolescents with Extreme Evening-Type Circadian Preference*
  - Christin Lang, PhD

- **4:05pm-4:25pm**
  - *Digital Cognitive Behavioral Therapy (dCBT) for Insomnia: Do the Effects Go Beyond Sleep?*
  - Annemarie Luik, PhD

- **4:25pm-4:45pm**
  - *College SENSE: A Mindfulness-Based Cognitive Behavioral Group Intervention for Sleep and Anxiety*
  - Melissa Latham

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**S09: Sleep Homeostasis and Synaptic Plasticity**
3:00pm-5:00pm | Room 309
**Chair:** Chiara Cirelli, MD, PhD

- **3:00pm-3:30pm**
  - *Role of Sleep in Synapse Remodeling During Development and Learning*
  - Guang Yang, PhD

- **3:30pm-4:00pm**
  - *Homer1a Drives Homeostatic Scaling-down of Excitatory Synapses During Sleep*
  - Graham Diering, PhD

- **4:00pm-4:30pm**
  - *Ultrastructural Evidence for Synaptic Scaling Across the Wake/Sleep Cycle*
  - Chiara Cirelli, MD, PhD

- **4:30pm-5:00pm**
  - *The Role of Arc in the Sleep Homeostatic Response Phenotype and Sleep Homeostatic Response Gene Expression*
  - Robert Greene, MD, PhD

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**O10: ABCs of Pediatric Sleep: Apneas, Babies and Chronotypes**
3:00pm-5:00pm | Room 210
**Chair:** Angela C. Randazzo, PhD

- **0909**
  - *3:00pm-3:15pm
    - NEONATAL SLEEP-WAKE ANALYSES PREDICT 18-MONTH NEURODEVELOPMENTAL OUTCOMES*
    - Shellhaas RA, Burns JW, Hassan F, Carlson MD, Barks JD, Chervin RD

- **0910**
  - *3:15pm-3:30pm
    - TO BED OR NOT TO BED? CRIB IS THE ANSWER!*
    - Williamson A, Leichman E, Walters R, Mindell J

- **0911**
  - *3:30pm-3:45pm
    - CHRONOTYPE AND TYPE 2 DIABETES RISK IN PREADOLESCENTS*
    - Dumin M, O’Sullivan K, Deplewski D, Van Cauter E, Koren D
0858  3:45pm-4:00pm  
**SLOW WAVE ACTIVITY AND MEMORY CONSOLIDATION IN CHILDREN WITH INCREASING SEVERITY OF SLEEP-DISORDERED BREATHING**  
Biggs SN, Foster-Owens MD, Thurlow M, Davey MJ, Horne RS

0859  4:00pm-4:15pm  
**adolescents with treatment resistant depression: could sleep-disordered breathing be involved?**  

0860  4:15pm-4:30pm  
**Regional Brain Tissue Integrity In Children With Sleep-Disordered Breathing**  

0861  4:30pm-4:45pm  
**Characterizing Treatment Emergent Central Sleep Apnea In Children**  
Wollin D, Castra Codesal ML, DeHaan K, MacLean JE

0862  4:45pm-5:00pm  
**Polysomnographic Characteristics of Pediatric Down Syndrome Patients Before and After Hypoglossal Nerve Stimulator Implant**  
Keamy D, Dierks G, Hartnick C, Kinane B

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**S10: Circadian Rhythms, Sleep and Cancer**

3:00pm-5:00pm  |  Room 304/306  
Chair: David White, MD

3:00pm-3:05pm  
**Why a Cancer Symposium in a Sleep Conference?**  
David White, MD

3:05pm-3:30pm  
**Chronomedicine and Chronotherapy in Oncology**  
Pasquale Innominato, MD, PhD

3:30pm-3:55pm  
**Inter-individual Variation in Circadian Clock and Sleep**  
Shantha Rajaratnam, PhD

3:55pm-4:20pm  
**Sleep and Circadian Functions in Cancer Patients**  
David Spiegel, MD

4:20pm-4:45pm  
**Interventional Manipulation of Sleep in Cancer Patients**  
Josee Savard, PhD

4:45pm-5:00pm  
Q&A  
Faculty

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**S11: Sleep Deficiency, Cognition and Emotion**

3:00pm-5:00pm  |  Room 311  
Chair: Tina Sundelin, PhD

3:00pm-3:30pm  
**A Pharmacogenetic Approach to Investigate Performance Deficits Resulting from Sleep Loss**  
Hans-Peter Landolt, PhD

3:30pm-4:00pm  
**fMRI Evidence of Degradation of Visual Information Processing Due to Sleep Deprivation**  
Michael Chee, MBBS

4:00pm-4:30pm  
**Impairments in Cognitive Performance and Emotion Regulation Due to Sleep Deprivation**  
Hans Van Dongen, PhD

4:30pm-5:00pm  
**Differential Consequences of a Bad Night in Insomnia and Controls**  
Eus Van Someren, PhD

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**W02: Sleep and Cardiovascular Health**

3:00pm-5:00pm  |  Ballroom B  
Chair: Tomasz Kuzniar, MD, PhD

3:00pm-3:40pm  
**Sleep as a Mediator of Cardiovascular Health**  
Naresh Punjabi, MD

3:40pm-4:20pm  
**Sleep Apnea and Cardiovascular Death. Can CPAP Make a Difference?**  
Virend Somers, MD

4:20pm-4:45pm  
**Sleep Apnea and Stroke: Debunking the Myths**  
Devin Brown, MD

4:45pm-5:00pm  
Q&A  
Faculty
**W03: Scoring Manual Update and Inter-scorer Reliability Program and Examples**

3:00pm-5:00pm | Ballroom A

**Chair:** Richard Berry, MD

- **3:00pm-3:20pm**
  - Areas of Challenge in Scoring Sleep Studies
  - Richard Berry, MD

- **3:20pm-3:40pm**
  - Scoring Manual Update Part 1
  - Rita Brooks, RST, RPSGT

- **3:40pm-4:00pm**
  - Scoring Manual Update Part 2
  - Susan Harding, MD

- **4:00pm-4:30pm**
  - Introduction to the ISR Program
  - Scott Williams, MD

- **4:30pm-5:00pm**
  - Scoring Examples with Audience Participation
  - Michael Zachek, MD

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**Poster Presentations**

5:00pm – 7:00pm | Exhibit Hall B

SLEEP 2017 will feature cash bar receptions in the Poster Hall on Sunday, Monday and Tuesday evenings. This is your opportunity to explore the Poster Hall, discuss the discoveries in the field and network with colleagues.

*See the SLEEP 2017 mobile app for a complete listing of posters.*
Industry Supported Activities

Please see page 89 for information regarding industry supported activities at SLEEP 2017.

Poster Set-Up

7:00am – 8:00am  |  Exhibit Hall B
Posters should be set-up during this time and should not be removed until 7:00pm.

Tom Roth Lecture of Excellence

I04: Individual Susceptibility to Sleep Apnea: Influences of Genomics and the Environment

8:00am-9:00am  |  Ballroom B
Susan Redline, MD (Bio on page 38)

S12: Sleep and Circadian Rhythm Dysfunction in the Postoperative and Critical Care Environment

8:00am-10:00am  |  Room 210
Chair: Matthew Maas, MD

9:00am-9:30am  
Outcomes: Sleep Impairment and Sedatives as Mediators of Delirium and Cognitive Impairment
Margaret Pisani, MD

9:30am-10:00am  
Interventions to Improve Sleep and Circadian Rhythms in the Critically Ill
Sairam Parthasarathy, MD

O11: New Developments in Insomnia Treatments: Treatment and Mechanisms

8:00am-10:00am  |  Room 302
Co-chairs: Jack Edinger, PhD and Simon Kyle, PhD

0290  8:00am-8:15am
DIFFERENTIAL RELATIONSHIPS BETWEEN CATEGORICAL VERSUS DIMENSIONAL MEASURES OF INSOMNIA AND REWARD CIRCUITRY FUNCTION
Soehner AM, Siegle GJ, Franzen PL, Hasler BP, Hafer B, Cao T, Buysse DJ

0336  8:15am-8:30am
IMPACT OF BRIEF BEHAVIORAL TREATMENT FOR INSOMNIA (BBT-I) ON SLEEP AND COGNITION IN OLDER ADULTS WITH INSOMNIA: THE REST RANDOMIZED CONTROLLED TRIAL
McCrae C, Williams J, Dautovich N, McNamara J, Stripling A, Dzierzewski J, Berry R, McCoy K, Marsiske M

0337  8:30am-8:45am
COGNITIVE BEHAVIORAL THERAPY FOR MENOPAUSAL INSOMNIA IN MIDLIFE WOMEN WITH INSOMNIA AND NOCTURNAL HOT FLASHES
Nowakowski S, Thurston RC, Meers JM, Stout-Aguilar J, Sadruddin SM, Hayman JM, Heimbach EK, Manber R

0338  8:45am-9:00am
WOMEN WITH INSOMNIA AND DEBILITATING MIGRAINES: SEQUENTIAL ADMINISTRATION OF ONLINE TREATMENT- THE WINDSOR STUDY
Crawford MR, Espie CA, Luik AI, Taylor HL, Burgess HJ, Ong JC
0339 9:00am-9:15am
**DOES COGNITIVE BEHAVIORAL THERAPY FOR INSOMNIA ENHANCE THE EFFECTS OF COGNITIVE PROCESSING THERAPY FOR PTSD AMONG SURVIVORS OF INTERPERSONAL VIOLENCE?**

0340 9:15am-9:30am
**EFFECTIVENESS OF COGNITIVE BEHAVIORAL THERAPY FOR INSOMNIA IN PATIENTS WITH COMORBID OBSTRUCTIVE SLEEP APNEA**

0341 9:30am-9:45am
**SEQUENTIAL THERAPIES FOR COMORBID AND PRIMARY INSOMNIA: A RANDOMIZED CONTROLLED TRIAL**
Morin CM, Edinger JD, Krystal AD, Beaulieu-Bonneau S, Ivers H, Guay B, Cartwright A, Solano A, Busby M

0342 9:45am-10:00am
**A META-ANALYSIS OF PLACEBO EFFECTS ACROSS HYPNOTIC RCTS: A FIRST PASS ANALYSIS**

**S13: Trauma Associated Sleep Disturbances: The Intersection of Traumatic Brain Injury and Posttraumatic Stress Disorder**
8:00am-10:00am  |  Ballroom A
Chair: Anne Germain, MD, PhD

8:00am-8:10am  Introduction
Anne Germain, MD, PhD

8:10am-8:35am  The Role of Norepinephrine During REM Sleep in Vulnerability and Resilience to PTSD
Gina Poe, PhD

8:35am-9:00am  Physiology Underlying Trauma Associated Sleep Disturbances: From Mice to Men
Jonathan Elliott, PhD

9:00am-9:25am  Mechanistic Implications of Novel Blood-Based Biomarkers of Trauma Associated Sleep Disorders
Jessica Gill, PhD, RN

9:25am-9:50am  Diagnosis and Treatment of a New Sleep Disorder, Trauma Associated Sleep Disorder
Vincent Mysliwiec, MD

9:50am-10:00am  Q&A
Faculty

**S14: Gut Health and Circadian Misalignment**
8:00am-10:00am  |  Ballroom C
Chair: Kenneth Wright Jr., PhD

8:00am-8:30am  The American Gut Project: Utilizing Citizen Science to Advance Our Understanding of the Role of the Gut Microbiome in Health and Disease
Embriette Hyde, PhD

8:30am-9:00am  Chronic Circadian and Sleep Disruption Effects on Gut Microbiota
Martha Hotz Vitaterna, PhD

9:00am-9:30am  Night and Shiftwork and the Human Microbiome
Amy Reynolds, PhD

9:30am-10:00am  Mechanisms Underlying the Cardiometabolic Benefits of Time Restricted Feeding from Flies and Mice to Humans
Satchin Panda, PhD

**S15: Sleep, Cytokines and Fatigue**
8:00am-10:00am  |  Room 311
Chair: David Raizen, MD, PhD

8:00am-8:10am  NIH Initiatives in Fatigue and for Myalgic Encephalomyelitis/Chronic Fatigue Syndrome
Vicky Whittemore, PhD
8:10am-8:35am  Chronic Fatigue Syndrome: A Clinical and Cognitive Behavioral Perspective
Hans Knoop, PhD

8:35am-9:00am  Sleep Loss, Inflammation and Fatigue: Human Experimental Findings
Janet Mullington, PhD

9:00am-9:25am  Building a Model for the Study of Fatigue in Mice
Mary Harrington, PhD

9:25am-9:50am  Using the Round Worm to Understand Cytokine-induced Fatigue
David Raizen, MD, PhD

9:50am-10:00am  NIAID Interest in Immune-fatigue Interactions
Joe Breen, PhD

I05: Enhancing Transportation Safety: The Need for Better Sleep
9:05am-10:05am  Ballroom B
Honorable Mark R. Rosekind, PhD (Bio on page 38)

S16: Sleep Ontogeny Across Phylogeny: Examining the Role of Sleep during Development Using Model Systems
8:00am-10:00am  Room 309
Chair: Ted Abel, PhD
8:00am-8:30am  Tired Worms Misfold Proteins
David Biron, PhD

8:30am-9:00am  Defining a Sleep State in Drosophila Larvae
Matthew Kayser, MD, PhD

9:00am-9:30am  Sleep Structures Neural Events and Oscillations in the Developing Brain
Mark Blumberg, PhD

9:30am-10:00am  Early Life Sleep Disruption Impairs Social Development in Prairie Voles
Carolyn Jones, PhD

W04: Beyond the Basics: Complex Cases and Comorbidities in Pediatric Sleep Medicine
8:00am-10:00am  Room 304/306
Chair: Judith Owens, MD
8:00am-8:30am  Complex Insomnia in Children and Adolescents
Judith Owens, MD

10:00am-11:20am  Room 302
Colleen McClung, PhD (Bio on page 37)

D02: Diversity Matters: How Increasing the Involvement of Under-represented Minorities and Women in Sleep Research Can Enhance our Science
10:20am-12:20pm  Ballroom C
Chair: Katherine Sharkey, MD, PhD
Faculty: Chandra Jackson, PhD; Giradin Jean-Louis, PhD
O12: Neurological Disease and Sleep

10:20am-12:20pm | Room 210

Co-chairs: Michael Yurcheshen, MD and Jeffery Liou, DO

1138  10:20am-10:35am  
HYPOTHALAMIC DYSFUNCTION IS RELATED TO SLEEP IMPAIRMENT AND CEREBROSPINAL-FLUID BIOMARKERS IN ALZHEIMER’S DISEASE  
Placidi F, Izzi F, Chiaravalloti A, Schillaci O, Mercuri N, Liguori C

1139  10:35am-10:50am  
MIDLIFE SHIFT WORK AND RISK OF INCIDENTAL DEMENTIA  
Bokenberger K, Sjolander A, Dahl Aslan AK, Karlsson IK, Akerstedt T, Pedersen NL

1140  10:50am-11:05am  
ACTIGRAPHIC SLEEP AND BRAIN VOLUMES IN COMMUNITY-DWELLING OLDER ADULTS  

1141  11:05am-11:20am  
EXCESSIVE DAYTIME SLEEPINESS, NAPPING AND BRAIN AMYLOID IN OLDER ADULTS  
Spira AP, An Y, Wu MN, Simonsick EM, Bilgel M, Wong DF, Resnick SM

1142  11:20am-11:35am  
CIRCADIAN REST-ACTIVITY RHYTHMS AND COGNITIVE FUNCTION IN PARKINSON’S DISEASE  
Wu JQ, Hu K, Stavitsky Gilbert K, Cronin-Golomb A

1143  11:35am-11:50am  
SHORT WAVELENGTH LIGHT THERAPY FACILITATES RECOVERY FROM MILD TRAUMATIC BRAIN INJURY  
Killgore WD, Shane BR, Vanuk JR, Franco J, Castellanos A, Millan M, Grandner MA, Bajaj S

1144  11:50am-12:05pm  
PRESENCE OF MELATONIN RHYTHM IN ACUTE MODERATE-SEVERE TRAUMATIC BRAIN INJURY DESPITE SEVERE SLEEP-WAKE DISTURBANCES  
Duclos C, Dumont M, Paquet J, Blais H, Quinn M, Menon DK, Bernard F, Gosselin N

1145  12:05pm-12:20pm  
LONG-TERM SEIZURE CONTROL IN EPILEPTIC PATIENTS WITH OBSTRUCTIVE SLEEP APNEA USING POSITIVE AIRWAY PRESSURE THERAPY  
Somboon T, Andrews ND, Bena JF, Wang L, Foldvary-Schaefer N

O13: The Interplay Between Sleep and Development

10:20am-12:20pm | Room 309

Co-chairs: Mark Blumberg, PhD and Matthew Kayser, MD, PhD

0032  10:20am-10:35am  
The Mediating Effect of Brain Structure on Sleep Slow Wave Activity During Adolescence  

0033  10:35am-10:50am  
The Effects of Sleep Restriction on Sleep Spindles in Adolescents  
Popalambros NA, Ong J, Lo J, Zee PC, Chee MW

0034  10:50am-11:05am  
Dissociating Circadian and Homeostatic Contributions to Paired-Associates Learning in Younger and Older Adolescents Using 28-Hour Forced Desynchrony  
Saletin JM, Bartz A, Wu L, Acebo C, Seifer R, Carskadon MA

0035  11:05am-11:20am  
Dose-Dependent Homeostatic and Circadian Effects of Sleep Restriction on Sustained Attention in Adolescents  
Short MA, Carskadon MA

0036  11:20am-11:35am  
Upper Airway Obstruction and Obstruction Removal Are Associated with Abnormal Energy Metabolism and Changes in Growth Hormone Axis in Rats  
Assadi M, Shknevsky E, Segev Y, Tarasiuk A
0037  11:35am-11:50am
LONG-TERM BEHAVIORAL CONSEQUENCES OF NEONATAL SLEEP FRAGMENTATION
Bertrand SJ, Kudchadkar SR, Zhang Z, Punjabi NM, Kannan S

0038  11:50am-12:05pm
IS EARLY SLEEP CONSOLIDATION ASSOCIATED WITH DEVELOPMENTAL OUTCOMES?
Pennesi M, Laganiere C, Bouvette-Turcot A, Steiner M, Meaney M, Gaudreau H

0039  12:05pm-12:20pm
PARENTAL RELATIONSHIP DISSOLUTIONS AND CHILD DEVELOPMENT: THE ROLE OF POOR SLEEP
Rudd BN, Holtzworth-Munroe A, D’Onofrio BM

O14: Consequences and Management of Sleep/Circadian Challenges
10:20am-12:20pm  |  Room 311
Co-chairs: Michael Chee, MD and Kristine Wilckens, PhD

0149  10:20am-10:35am
SLEEP DEPRIVATION INCREASES THE COSTS OF ATTENTIONAL EFFORT: PERFORMANCE, PREFERENCE AND PUPIL SIZE
Massar SA, Lim J, Sasmita K, Chee MW

0150  10:35am-10:50am
MISALIGNED MEALS COMPROMISE REPRODUCTIVE SUCCESS IN MICE
Butler MP, Swamy S, Kukino A

0151  10:50am-11:05am
COMPARISON OF THE EFFECTS OF ACUTE TOTAL SLEEP DEPRIVATION, CHRONIC SLEEP RESTRICTION AND RECOVERY SLEEP ON POSITIVE AFFECT
Hennecke E, Lange D, Fronczek J, Bauer A, Aeschbach D, Elmenhorst D, Elmenhorst E

0152  11:05am-11:20am
SLEEP DEPRIVATION INCREASES COCAINE SEEKING
Bjorness TE, Greene RW

0153  11:20am-11:35am
FATIGUE RISK MANAGEMENT BY PRIOR SLEEP WAKE MODEL (PSWM): TOO EASY TO BE RELIABLE?
Sparrow AR, Riedy S, Van Dongen HP

0154  11:35am-11:50am
IMPAIRED COGNITIVE FLEXIBILITY DUE TO SLEEP DEPRIVATION PREDICTS DEGRADED DEADLY FORCE DECISION-MAKING IN HIGH-FIDELITY LAW ENFORCEMENT SIMULATIONS

0155  11:50am-12:05pm
SLEEP WHILE ON-CALL OVERNIGHT DOES NOT RESTORE PERFORMANCE AMONG FIRST-YEAR RESIDENT PHYSICIANS

0156  12:05pm-12:20pm
ADDITIVE EFFECTS OF THE NUMBER OF COMPLETED FLIGHTS AND TIME AWAKE ON FATIGUE IN SHORT-HAUL AIRLINE PILOTS
Aeschbach D, Vejvoda M, Mendolia F, Tritscher K

S17: Sleep and the Immune System: Novel Insights and Clinical Implications
10:20am-12:20pm  |  Room 304/306
Chair: Tiffany Braley, MD

10:20am-10:25am  Introduction
Tiffany Braley, MD

10:25am-11:00am  Sleep and Susceptibility to Infectious Illness: Moderators and Mechanisms
Aric Prather, PhD

11:00am-11:35am  Reciprocal Regulation of Sleep and Innate Immunity
Michael Irwin, MD

11:35am-12:10pm  Recovery Sleep: Reinstating Inflammatory Balance
Monika Haack, PhD

12:10pm-12:20pm  Q&A
Faculty
S18: Mild-to-Moderate Obstructive Sleep Apnea: Highly Prevalent, But of What Impact?
10:20am-12:20pm | Ballroom B
Chair: Edward Bixler, PhD

10:20am-10:50am  Mild/Moderate Sleep Apnea: Highly Prevalent with Minimal Symptoms
Thorarinn Gislason, PhD

10:50am-11:20am  Lessons from the Sleep Heart Health Study
Naresh Punjabi, MD

11:20am-11:50am  Cross-Sectional and Longitudinal Cardiometabolic Outcomes of Mild-to-Moderate Obstructive Sleep Apnea in the Wisconsin Sleep Cohort: A Synthesis and Update of 25 Years of Findings
Paul Peppard, PhD

11:50am-12:20pm  Mild-to-Moderate Sleep Apnea: Can Biomarkers Improve our Diagnostic and Prognostic Accuracy?
Alexandros Vgontzas, MD

W05: Telemedicine Update: Sleep Beyond the Comfort Zone
10:20am-12:20pm | Ballroom A
Chair: Jaspal Singh, MD

10:20am-10:40am  Clinical Challenges in Telemedicine
Seema Khosla, MD and Barry Fields, MD

10:40am-11:00am  Supervision of NP/PAs Through Telemedicine
Jaspal Singh, MD

11:00am-11:20am  Integration of Apps/Gadgets and Telemedicine
Afifa Shamim-Uzzaman, MD

11:20am-11:40am  Medical Directorships and Telemedicine
Seema Khosla, MD

11:40am-12:00pm  Education and Teaching through Telemedicine
Barry Fields, MD

I07: Identifying Novel Sleep/Wake Targets: Hypocretin/Orexin, Cortical nNOS Neurons and TAAR1
11:25am-12:25pm | Room 302
Thomas Kilduff, PhD (Bio on page 37)

12:00pm-12:20pm  Using Telemedicine for Clinical Research
Jaspal Singh, MD

R01: Brown Bag Report: Challenging Cases
12:20pm-1:30pm | Room 302
During this session, challenging cases will be presented and an expert panel will discuss their approach to diagnosis and treatment. Lunch is not provided.

A Case of Recurrent Hypersomnia with Autonomic Dysfunction
Mandana Mahmoudi, MD; Sanjeev Kothare, MD

To Breathe Or Not To Breathe
James Davis, MD; Muna Irfan, MD

An Abnormal Overnight Oximetry
Salma Patel, MD

L02: Sleep Need: What is it and Can it be Quantified?
12:30pm-1:30pm | Room 103
Pre-registration is required.
CE Credits for Psychologists are not available for this session.
Speakers: Paul Shaw, PhD and Ronald Szymusiak, PhD
Meet the Professors
12:30pm-1:30pm
Pre-registration is required. See registration desk for full details. CE Credits for Psychologists are not available for these sessions.

M06: Nightmare Disorder: When Patients are Scared to Sleep at Night
Room 107 | Anoop Karippot, MD, RPSGT

M07: Clinical Practice Guidelines for the Diagnostic Testing of OSA in Adults
Room 108 | Vishesh Kapur, MD

M08: Implementing Healthy School Start Times: Educating and Engaging Community Stakeholders
Room 109 | Judith Owens, MD

M09: Increasing the Availability of Sleep Therapy to More Patients
Room 110 | Rachel Manber, PhD

M10: Improving Cardiovascular and Metabolic Outcomes with Insomnia Therapy
Room 111 | Nancy Redeker, PhD, RN

Conversations with Experts
12:30pm-1:30pm
CME and CE Credits for Psychologists are not available for these sessions.

E04: Frances Chung, MD
Room 303

E05: Colleen McClung, PhD
Room 305

E06: Gina Turrigiano, PhD
Room 308

I08: Traumatic Brain Injury Induces Sleep: A Diagnostic or Therapeutic Biomarker?
1:30pm-2:30pm | Ballroom A
Jonathan Lifshitz, PhD (Bio on page 37)

I09: Tinkering with Sleep: Enhancing Brain Rhythms, Enhancing Sleep Physiology, Enhancing Memory
1:30pm-2:30pm | Room 302
Ken Paller, PhD (Bio on page 38)

O15: Down the Hatch! Pharmacologic Interventions for OSA
1:30pm-2:30pm | Ballroom B
Co-chairs: Kathleen Sarmiento, MD and Vincent Mysliwiec, MD

0557 1:30pm-1:45pm
THE ROLE OF NIGHTLY ZOPICLONE ON OBSTRUCTIVE SLEEP APNEA SEVERITY AND SYMPTOMS IN PEOPLE WITH LOW TO MODERATE RESPIRATORY AROUSAL THRESHOLDS: A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED TRIAL

0558 1:45pm-2:00pm
DRONABINOL REDUCES AHI AND DAYTIME SLEEPINESS IN PATIENTS WITH MODERATE TO SEVERE OBSTRUCTIVE SLEEP APNEA SYNDROME

0559 2:00pm-2:15pm
OBSTRUCTIVE SLEEP APNEA AND SEROTONIN REUPTAKE INHIBITORS IN PEOPLE WITH AND WITHOUT EPILEPSY
Cheng JY

0560 2:15pm-2:30pm
EFFECTS OF MEDICAL THERAPY ON MILD OBSTRUCTIVE SLEEP APNEA IN ADULT PATIENTS
Smith DF, Ishman SL, Spiceland CP, Romaker AM
**O16: Sleep-related Movement Disorders and Parasomnias**

1:30pm-2:30pm | Ballroom C

**Co-chairs:** Richard Allen, PhD and Charles Guardia, MD

0718 1:30pm-1:45pm

**7 TESLA IMAGING OF MICROSTRUCTURAL BRAINSTEM CHANGES IN REM SLEEP BEHAVIOR DISORDER**

Bianciardi M, Lewis LD, Wald LL, Rosen BR, Videnovic A

0719 1:45pm-2:00pm

**TRAUMA ASSOCIATED SLEEP DISORDER: A CASE SERIES OF 21 PATIENTS**

Brock MS, Foster SN, Creamer JL, Thomas AL, Hansen SL, Mysliwiec V

0720 2:00pm-2:15pm

**ASSOCIATION OF INDIVIDUAL PERIODIC LIMB MOVEMENTS AND NON-SUSTAINED TACHYCARDIA DURING SLEEP: A CASE-CROSSOVER ANALYSIS**


0721 2:15pm-2:30pm

**TWO TIMES GREATER RISK FOR NEW ONSET MENTAL DISORDERS AMONG PATIENTS WITH PRIMARY RESTLESS LEGS SYNDROME RECEIVING DE NOVO DOPAMINE AGONISTS: A LARGE-SCALE RETROSPECTIVE CLAIMS MATCHED COHORT ANALYSIS**

Hankin C, Lee D, Wang Z, Small MB

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**O17: Healthcare Delivery**

1:30pm-2:30pm | Room 304/306

**Co-chairs:** Raymond Bourey, MD and Joseph Espiritu, MD

1176 1:30pm-1:45pm

**FATIGUE RISK MANAGEMENT PROGRAM INCREASES SLEEP AND ALERTNESS IN FIREFIGHTERS**


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**O18: Genetics and Genomics of Sleep and Circadian Rhythms**

1:30pm-2:30pm | Room 311

**Co-chairs:** David Raizen, MD, PhD and Susan Harbison, PhD

0005 1:30pm-1:45pm

**THE PERK PATHWAY IS AN INTRACELLULAR REGULATOR OF SLEEP AND WAKE**

Ly S, Cho S, Naidoo N

0157 1:45pm-2:00pm

**A BRAIN-SPECIFIC LIPID TRANSPORTER MODULATES NEURONAL AND BEHAVIORAL AROUSAL**

Ashlin T, Cockcroft S, Rihel J

0006 2:00pm-2:15pm

**GLUCOCORTICOID SIGNALLING PATHWAYS ARE AFFECTED BY MISTIMED SLEEP, DESPITE CORTISOL REMAINING RHYTHMIC**

Archer SN, Moller-Levet C, Santhi N, Laing E, Dijk DJ

0007 2:15pm-2:30pm

**CIRCADIAN AND WAKE-DEPENDENT CHANGES IN THE HUMAN PLASMA METABOLOM**

Grant LK, Ftouni S, Nijagal B, De Souza D, Rajaratnam SW, Lockley SW, Anderson C
Exhibit Hall Refreshment Break
2:30pm-2:45pm

D03: Value-based Sleep: Crucial Conversations to Define, Demonstrate and Maximize Our Value
2:45pm-4:45pm | Ballroom C
Chair: Emerson Wickwire, PhD
Faculty: Nancy Collop, MD | Liesl Cooper, PhD, MBA | Christopher Lettieri, MD | Natalie Hartenbaum, MD | Sairam Parthasarathy, MD | Steven Scharf, MD, PhD | Tilak Verma, MD

O19: Stim Me! The Upper Airway and HNS
2:45pm-4:45pm | Room 304/306
Co-chairs: Raj Dedhia, MD and David Smith, MD, PhD

0561 2:45pm-3:00pm
UPPER AIRWAY STIMULATION FOR OBSTRUCTIVE SLEEP APNEA: COMBINED NORTHEAST OUTCOMES
Li C, D’Agostino M, Krieger A, Suurna M

0562 3:00pm-3:15pm
DURABILITY OF STIMULATION THRESHOLDS AND THERAPY PROGRAMMING AT 48-MONTHS OF UPPER AIRWAY STIMULATION FOR OBSTRUCTIVE SLEEP APNEA
Cornelius J, Strohl K, Coleman M, Lee K, Ni Q

0563 3:15pm-3:30pm
UPPER AIRWAY STIMULATION FOR OBSTRUCTIVE SLEEP APNEA: OBJECTIVE AND PATIENT REPORTED OUTCOMES AFTER FIVE YEARS OF FOLLOW-UP
Strollo PJ, Soose R, Badr M, Strohl KP

0564 3:30pm-3:45pm
IMPACT OF HYPOGLOSSAL NERVE STIMULATION ON HEART RATE VARIABILITY: THE STAR TRIAL
Dedhia RC, Bliwise DL, Quyyumi AA, Strollo PJ, Li Q, Clifford GD

O20: PTSD, Other Psychiatric Disorders and Sleep
2:45pm-4:45pm | Room 210
Chair: Thomas Mellman, MD

1073 2:45pm-3:00pm
SLEEP, FEAR CONDITIONING AND SAFETY SIGNAL LEARNING IN VETERANS WITH PTSD
Straus LD, Acheson D, Risbrough VB, Drummond SP, Norman SB

1074 3:00pm-3:15pm
POST-TRAUMATIC STRESS DISORDER, CANINE COMPANIONSHIP AND SLEEP: PRELIMINARY FINDINGS
Woodward SH, Jamison AL, Gala S, Arsenault N

1075 3:15pm-3:30pm
VERBAL MEMORY FUNCTIONING MODERATES RESPONSE TO TREATMENT FOR RECURRENT NIGHTMARES IN PTSD
Scott JC, Harb GC, Brownlow JA, Greene JL, Gur RC, Ross RJ
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>1111</td>
<td>3:30pm-3:45pm</td>
<td><strong>INSOMNIA AND SUICIDAL IDEATION AMONG MILITARY PERSONNEL: EXPLORING JOINT SYMPTOM TRAJECTORIES OVER A 12-MONTH PERIOD</strong>&lt;br&gt;Zuromski KL, Allan N, Wilkerson AK, Stecker T</td>
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<td>1112</td>
<td>3:45pm-4:00pm</td>
<td><strong>ASSOCIATION BETWEEN SLEEP APNEA AND SUICIDAL THOUGHTS AND BEHAVIOR</strong>&lt;br&gt;Bishop TM, Ashrafioun L, Pigeon WR</td>
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<tr>
<td>1085</td>
<td>4:00pm-4:15pm</td>
<td><strong>EARLY VS. LATE WAKE THERAPY IMPROVES MOOD IN ANTEPARTUM VS. POSTPARTUM DEPRESSION BY DIFFERENTIALLY ALTERING MELATONIN AND SLEEP TIMING</strong>&lt;br&gt;Parry BL, Meliska C, Lopez A, Sorenson D, Martinez F, Orff H, Hauger R, Kripke D</td>
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<tr>
<td>1113</td>
<td>4:15pm-4:30pm</td>
<td><strong>THE EFFECTS OF ESZOPICLONE ON SLEEP SPINDLES AND MEMORY CONSOLIDATION IN SCHIZOPHRENIA: A DOUBLE-BLIND RANDOMIZED TRIAL</strong>&lt;br&gt;Baran B, Demanuele C, Vuper TC, Seicol B, Fowler RA, Correll D, Parr E, Callahan CE, Morgan A, Stickgold R, Manoach DS</td>
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<td>1114</td>
<td>4:30pm-4:45pm</td>
<td><strong>A FUNCTIONAL HOMOLOGY BETWEEN ADHD AND ACUTE SLEEP DEPRIVATION: AN ALE META-ANALYSIS OF FMRI-MONITORED EXECUTIVE FUNCTION</strong>&lt;br&gt;Saletin JM, Rodriguez KA, Jackvony S, Dickstein DP</td>
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<td>3:35pm</td>
<td>Using Autopsy Data to Learn the Rhythms in the Human Brain</td>
<td>Ryan Logan, PhD</td>
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<tr>
<td>4:00pm</td>
<td>Using Informatively Ordered Biopsy Data to Learn Internal Tissue Rhythms in Health and Disease</td>
<td>Ron Anafi, MD, PhD</td>
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<td>4:25pm</td>
<td>Q&amp;A</td>
<td>John Hogenesch, PhD</td>
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**S20: Boosting Slow Wave Sleep and Improving Cognitive Outcomes Across the Life Span**

2:45pm-4:45pm | Room 311  
**Chair: Clare Anderson, PhD**

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<th>Time</th>
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<td>2:45pm</td>
<td><strong>Slow Wave Sleep and Cognition across the Life Span</strong></td>
<td>Derk Jan Dijk, PhD</td>
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<td>3:15pm</td>
<td><strong>Enhancement of Slow Wave Activity and its Effects on Memory in Young Adults</strong></td>
<td>Amiya Patanaik, PhD</td>
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<tr>
<td>3:45pm</td>
<td><strong>Enhancing Slow Wave Sleep in Older Adults</strong></td>
<td>Phyllis Zee, MD, PhD</td>
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<tr>
<td>4:15pm</td>
<td><strong>Enhancing Slow Wave Activity via an Automated Acoustic Stimulation Device in Middle Aged Men: Effect on Cognitive Function</strong></td>
<td>Clare Anderson, PhD</td>
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**S21: Dopaminergic Control of Sleep and Wakefulness**

2:45pm-4:45pm | Room 309  
**Chair: Ada Eban-Rothschild, PhD**

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<th>Time</th>
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<td>2:45pm</td>
<td><strong>Dopaminergic Control of Sleep and Wakefulness</strong></td>
<td>Ada Eban-Rothschild, PhD</td>
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<td>2:50pm</td>
<td><strong>Dopamine Controls the Excitability of Sleep-inducing Neurons in Drosophila</strong></td>
<td>Jeffrey Donlea, PhD</td>
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3:20pm-3:45pm  VTA Dopaminergic Neurons Regulate Ethologically-relevant Sleep-wake Behaviors
Ada Eban-Rothschild, PhD

3:45pm-4:20pm  Reanimation: Activating VTA Dopamine Neurons to Induce Emergence from General Anesthesia
Ken Solt, MD

4:20pm-4:45pm  Dorsal Raphe Dopamine Neurons Modulate Arousal and Promote Waking Upon Salient Stimuli
Viviana Gradinaru, PhD

W06: Preparing for Sleep Medicine Recertification
2:45pm-4:45pm  |  Ballroom B
Chair: Teofil Lee-Chiong, MD

2:45pm-3:45pm  Everything You Need to Know About Sleep Apnea
Neil Freedman, MD

3:45pm-4:45pm  Everything Else
Teofil Lee-Chiong, MD

W07: Parasomnia: Diagnostic Challenges and How to Overcome Them
2:45pm-4:45pm  |  Ballroom A
Chair: Milena Pavlova, MD

2:45pm-3:15pm  NREM Parasomnia Evaluation: Current Standards
Yves Dauvilliers, MD, PhD

3:15pm-3:45pm  NREM Parasomnia vs. Seizure: Case Examples
Rosalia Silvestri, MD

3:45pm-4:15pm  NREM Parasomnia vs. Sleep-related Movements: Case Examples
Erik St. Louis, MD

4:15pm-4:45pm  Lessons Learned from Other Subspecialties: How Can We Improve the Diagnostic Process in the Future
Milena Pavlova, MD
Finally, a mask series that takes the constant guesswork out of mask selection. Introducing the AirFit 20 series – specially-designed to fit all patients, regardless of facial profile. With our testing showing each mask fit at least 97% of patients¹-⁴, you can trust that it will perform for your diverse group of patients.

Learn more at SLEEP, booth #2422

Nurses’ Breakfast
7:00am - 8:00am | Room 103
Join nurses, advanced practice registered nurses & physician assistants as they discuss their involvement in managing patients with sleep disorders.

**S22: Recent Advances in the Pathophysiology of RBD and REM Sleep: Hints for Treatment?**
8:00am-10:00am | Ballroom C
Chair: Raffaele Ferri, MD
8:00am-8:30am  REM Sleep Circuitry Abnormalities in RBD  John Peever, PhD
8:30am-9:00am  Brain Neuroimaging Abnormalities in Patients with RBD  Dario Arnaldi, MD, PhD
9:00am-9:30am  Electromyographic Correlates in RBD  Poul Jennum, MD, PhD
9:30am-10:00am  Spectral EEG Changes During REM Sleep in RBD and Their Modifications by Clonazepam  Raffaele Ferri, MD

**O21: Sleep Changes with Aging and Their Impact on Mortality**
8:00am-10:00am | Room 302
Co-chairs: Meir Kryger, MD and Melissa Knauert, MD, PhD
0755 8:00am-8:15am  LONGITUDINAL ASSOCIATIONS OF RISK FACTORS WITH INSOMNIA SEVERITY IN OLDER PERSONS  Miner B, Redeker N, Yaggi HK, Van Ness PH, Han L, Gill TM, Vaz Fragoso CA

**O22: Reducing Sleep Disruptions with the AirFit F20**
8:15am-8:30am  SHORT SLEEP DURATION DRIVES ACCELERATED AGING IN THE UNITED STATES ESPECIALLY AMONG RACIAL/ETHNIC MINORITIES  Seixas A, Kanchi R, Langford A, Roger A, Williams S, Zizi F, Jean-Louis G
0757 8:30am-8:45am  PURPOSE IN LIFE AND SLEEP DISTURBANCE IN OLDER ADULTS  Turner AD, Smith CE, Ong JC
0758 8:45am-9:00am  REDUCED SPINDLE FREQUENCY AND DENSITY IN STAGE 2 NREM SLEEP IS ASSOCIATED WITH INCREASED CSF P-TAU IN COGNITIVELY NORMAL ELDERLY  Sharma RA, Kam K, Parekh A, Uribe-Cano S, Tweardy S, Bubu OM, Ayappa I, Rapoport DM, Varga AW, Osorio RS
0759 9:00am-9:15am  BIDIRECTIONAL ASSOCIATIONS BETWEEN WHITE MATTER INTEGRITY AND SLEEP QUALITY IN THE ELDERLY – THE ROTTERDAM STUDY  Kocevska D, Lysen TS, Cremers LG, Vernooij MW, Tiemeier H
0760 9:15am-9:30am  POOR SLEEP IS ASSOCIATED WITH RECURRENT FALLS AMONG OLDER WOMEN IN THE STUDY OF OSTEOPOROTIC FRACTURES  Tyagi S, Perera S, Hanlon J, Buysse D
0761 9:30am-9:45am  LIFESPAN TRAJECTORIES OF SLEEP QUALITY PREDICT MORTALITY IN THE MIDLIFE IN THE UNITED STATES STUDY  Wiley JF
0762 9:45am-10:00am  ROLES OF MULTIPLE SLEEP HEALTH CHARACTERISTICS IN PREDICTING ALL-CAUSE MORTALITY AMONG OLDER MEN  Wallace M, Buysse DJ, Smagula S, Simsek B, Hall MH, Kado D, Redline S, Vo TN, Stone K
S23: Upper Airway Stimulation Therapy for Obstructive Sleep Apnea: Theoretical Considerations, Clinical Evidence and Implementation Strategies

8:00am-10:00am | Ballroom B
Chair: Karl Doghramji, MD

8:00am-8:05am  Introduction
Karl Doghramji, MD

8:05am-8:30am  Neurophysiology of the Upper Airway and the Mechanism of Upper Airway Stimulation
Kingman Strohl, MD

8:30am-8:55am  Efficacy and Safety: A Summary of Clinical Studies and Experience
Karl Doghramji, MD

8:55am-9:20am  Patient Screening, Selection and Surgical Device Implantation
Maurits Boon, MD

9:20am-9:45am  Post-Operative Management and Long-Term Considerations
Clemens Heiser, MD

9:45am-10:00am  Q&A
Faculty

S24: Drowsy Driving

8:00am-10:00am | Ballroom A
Chair: Kimberly Honn, PhD

8:00am-8:30am  Prevalence and Risk of Drowsy Driving: Research by the AAA Foundation for Traffic Safety
Brian Tefft

8:30am-9:00am  Warning Signs of Drowsy Driving
Mark Howard, MD

9:00am-9:30am  Drowsy Driving: Recent Efforts in Commercial Trucking
Kimberly Honn, PhD

9:30am-10:00am  The National Plan to Address Drowsy Driving
Rory Austin, PhD

S25: Sleep, Clocks and Brain Plasticity Across the Lifespan

8:00am-10:00am | Room 311
Chair: Marcos Frank, PhD

8:00am-8:30am  Sleep Dependent Plasticity in the Visual Cortex
Marcos Frank, PhD

8:30am-9:00am  Timing Cortical Plasticity
Takao Hensch, PhD

9:00am-9:30am  Sleep and Vocal Learning in Songbirds
Daniel Margoliash, PhD

9:30am-10:00am  Circuit Dynamics as a Function of Sleep State
Julie Williams, PhD

W08: Challenges in Diagnosis and Management of Pediatric Narcolepsy

8:00am-10:00am | Room 304/306
Chair: Kiran Maski, MD

8:00am-8:25am  Challenges in Diagnosis and Management of Pediatric Narcolepsy
Kiran Maski, MD

8:25am-8:50am  Comorbid Precocious Puberty and Obesity in Pediatric Narcolepsy
Vidhu Thaker, MD

8:50am-9:10am  Special Issues for Teens with Narcolepsy
Judith Owens, MD

9:10am-9:35am  Psychiatric Co-morbidities of Narcolepsy
Anna Ivanenko, MD, PhD

9:35am-10:00am  Cognitive Behavior Therapies for Children with Hypersomnia Conditions
Eric Zhou, PhD
Reviewer Training Program for the journal SLEEP

9:00am-10:00am | Room 200
Interested in becoming a reviewer for SLEEP? This session is open to all attendees not currently reviewing for SLEEP but interested in contributing to the journal as a reviewer. Attendees should have a doctoral degree and first authorship on at least one peer-reviewed scientific paper.

Exhibit Hall Open

10:00am – 1:30pm | Exhibit Hall CD, Auditorium

Exhibit Hall Refreshment Break
10:00am-10:20am

O22: Of Heart and Mind: Impact of Sleep-disordered Breathing
10:20am-12:20pm | Ballroom C
Co-chairs: Steven Scharf, MD, PhD and Jason Sico, MD

F02: Metabolic Dysregulation During Sleep and Circadian Disruption: Methods, Mechanisms and Countermeasures
10:20am-12:20pm | Room 311
Chair: Christopher Depner, PhD

11:20am-11:50am  Time-restricted Feeding is a Preventative and Therapeutic Intervention Against Diverse Nutritional Challenges
Amandine Chaix, PhD

11:50am-12:20pm  The Impact of Weekend Recovery Sleep on the Human Plasma Metabolome and Tissue Specific Insulin Sensitivity
Christopher Depner, PhD
0602  11:35am-11:50am
CENTRAL SLEEP APNEA IN THE ACUTE AND STABLE PHASES OF STROKE
Isakov A, Dudha N, Pyatkevich YG, Grimes J, Plato MV, Auerbach S

0603  11:50am-12:05pm
SHORT SLEEP DURATION IS ASSOCIATED WITH AN INCREASED PREVALENCE OF HYPERTENSION IN PATIENTS WITH OBSTRUCTIVE SLEEP APNEA

0616  12:05pm-12:20pm
A PERCEPTIVE IMPAIRMENT IN OSA PATIENTS ASSESSED BY MEANS OF A VISUAL SEARCH TASK
Ferini-Strambi L, Giora E, Galbiati A, Marelli S, Zucconi, M

O23: How Short Sleep Time and Altered Sleep Schedules Interface with Cancer, Pain and Cardiometabolic Disease
10:20am-12:20pm | Room 304/306
Chair: Michael Smith, PhD

1009  10:20am-10:35am
SLEEP QUALITY MEDIATES RACE-RELATED DIFFERENCES IN PAIN INTENSITY AMONG INNER-CITY WOMEN PRESENTING TO THE EMERGENCY DEPARTMENT

1010  10:35am-10:50am
MORNING BRIGHT LIGHT TREATMENT IMPROVES FUNCTION AND REDUCES PAIN SENSITIVITY IN FIBROMYALGIA
Burgess HJ, Park M, Ong JC, Shakoor N, Williams DA, Burns J

1011  10:50am-11:05am
INSOMNIA AND ACTIGRAPHIC REST-ACTIVITY INDICES PREDICT QUALITY OF LIFE FOLLOWING SURGERY FOR ENDOMETRIAL CANCER

1012  11:05am-11:20am
A DANISH LANGUAGE INTERNET-DELIVERED INTERVENTION FOR INSOMNIA IN CANCER SURVIVORS: EFFECTS ON CANCER-RELATED FATIGUE
Amidi A, Damholdt M, Dahlgaard J, Ritterband L, Zachariae R

1013  11:20am-11:35am
SHIFT WORK, CHRONOTYPE AND TYPE 2 DIABETES IN THE UK BIOBANK AND TYPE 2 DIABETES IN THE UK BIOBANK
Vetter C, Dashti HS, Lane JM, Anderson SG, Schernhammer ES, Rutter MK, Saxena R, Scheer FA

1014  11:35am-11:50am
INSOMNIA AND GLUCOSE CONTROL IN ADULTS WITH TYPE 2 DIABETES
Chasens ER, Atwood CW, Baniak LM, Burke LE, Korytkowski M, Morris JL, Sereika SM, Strollo PJ

1015  11:50am-12:05pm
IMPACT OF SHORT SLEEP DURATION ON MORTALITY RISK ASSOCIATED WITH CARDIOVASCULAR DISEASE AND STROKE
Fernandez-Mendoza J, He F, Vgontzas AN, Liao D, Bixler EO

1016  12:05pm-12:20pm
SLEEP-WAKE TIMING AND STABILITY ARE ASSOCIATED WITH INCREASED BLOOD PRESSURE IN THE SUEÑO ANCILLARY STUDY OF THE HISPANIC COMMUNITY HEALTH STUDY/STUDY OF LATINOS (HCBS/SOL)

S26: Sleep and Cognition: Recommendations from the Global Council on Brain Health, An AARP Collaborative
10:20am-12:20pm | Ballroom A
Chair: Donald Bliwise, PhD

1020  10:20am-10:50am
RESULTS OF THE 2016 AARP SURVEY ON SLEEP AND COGNITION
Sarah Lock, JD

1050  10:50am-11:20am
THE IMPORTANCE OF SLEEP ON COGNITION
Donald Bliwise, PhD
11:20am-11:50am  
**Lighting-Up the Aging Brain**  
Julie Carrier, PhD

11:50am-12:20pm  
**The Global Council on Brain Health Consensus Statement and Recommendations for Maintaining Healthy Sleep for Brain Health**  
Charles Czeisler, MD, PhD

### S27: Translational Neuroscience: EEG Biomarkers in Preclinical Models of Neurological and Neuropsychiatric Disorders

10:20am-12:20pm  |  Room 302  
**Chair:** Stephen Morairty, PhD

10:20am-10:50am  
**EEG Biomarkers for the Presence and Progression of Disease in Mouse Models of Huntington's Disease**  
Stephen Morairty, PhD

10:50am-11:20am  
**Sleep Homeostatic and Waking Behavioral Phenotypes in Egr3-deficient Mice Associated with Serotonin Receptor 5-HT2 Deficits**  
Jonathan Wisor, PhD

11:20am-11:50am  
**Sleep/Wake Phenotypes and Quantitative EEG Analyses of Rodent Models of Autism Spectrum Disorders**  
Alexia Thomas, PhD

11:50am-12:20pm  
**EEG Biomarkers of Altered Sleep/Wake Behavior in Mouse Models of Narcolepsy**  
Cecilia Diniz Behn, PhD

### W09: Sleep Apnea Surgery 2017

10:20am-12:20pm  |  Ballroom B  
**Chair:** Edward Weaver, MD

10:20am-10:40am  
**Indications & Goals of Sleep Apnea Surgery**  
Edward Weaver, MD

10:40am-11:05am  
**Surgery Options for Pediatric Sleep Apnea**  
Derek Lam, MD

11:05am-11:30am  
**Update on the Evidence for Pediatric Sleep Apnea Surgery**  
Jonathan Skirko, MD

11:30am-11:55am  
**Surgery Options for Adult Sleep Apnea**  
Jennifer Hsia, MD

11:55am-12:20pm  
**Update on the Evidence for Adult Sleep Apnea Surgery**  
Raj Dedhia, MD

### Lunch Debate

L03: Is Sleep Testing Needed When Straightforward OSA is Suspected?

12:30pm-1:30pm  |  Room 103  
**Pre-registration is required.**  
CE Credits for Psychologists are not available for this session.

**Speakers:** Charles Atwood, MD and Samuel Kuna, MD

### Meet the Professors

12:20pm-1:30pm  
**Pre-registration is required.**  
CE Credits for Psychologists are not available for these sessions.

M11: Obesity Hypoventilation Syndrome: Evaluation and Treatment  
Room 107  |  Babak Mokhlesi, MD

M12: Leaning In: Promoting and Sponsoring Opportunities for Women in Sleep Medicine  
Room 108  |  Susan Redline, MD

M13: Challenging Cases in Pediatric Sleep Medicine  
Room 109  |  Lourdes Del Rosso, MD

M14: Developing a Sleep Curriculum for Pulmonary Fellows  
Room 110  |  Lawrence Epstein, MD

M15: Overview of Accreditation Standards  
Room 111  |  James Rowley, MD
Conversations with Experts
12:30pm-1:30pm
CME and CE Credits for Psychologists are not available for these sessions.
E07: Jonathan Lifshitz, PhD
Room 303
E08: Ken Paller, PhD
Room 305

I10: The Janus Effect: Looking Back and Moving Forward in Pediatric Sleep Medicine
1:30pm-2:30pm | Ballroom B
Judith Owens, MD (Bio on page 38)

O24: Sleep and Mood Disorders
1:30pm-2:30pm | Ballroom A
Chair: Wai Sze Chan, PhD
1086 1:30pm-1:45pm
CBT-I FOR MENOPAUSE RELATED INSOMNIA ALSO REDUCES DEPRESSION SEVERITY
1087 1:45pm-2:00pm
QIGONG EXERCISE IMPROVED QUALITY OF SLEEP AND REDUCED INTERLEUKIN-1 BETA AND INTERLEUKIN-6 AMONG PERSONS WITH DEPRESSIVE SYMPTOMS AND SLEEP DISTURBANCES: A RANDOMIZED CONTROLLED TRIAL
Chan J, Li A, Chan C, So K, Chen J, Ji X, Yuen L, Chung K, Ng S
1088 2:00pm-2:15pm
HEART RATE SLEEP PROFILE: A NEW BIOMARKER FOR DEPRESSION?

O25: PAP Power! Strategies to Increase Adherence
1:30pm-2:30pm | Ballroom C
Co-chairs: Michelle Cao, DO and Barry Fields, MD
0509 1:30pm-1:45pm
IMPACT OF AUTOMATED WEB-EDUCATION AND CPAP TELE-MONITORING ON CPAP ADHERENCE AT 3 MONTHS AND 1 YEAR: THE TELE-OSA RANDOMIZED CLINICAL TRIAL
0510 1:45pm-2:00pm
USE OF A PERSONALIZED VIDEO TO ENHANCE PAP ADHERENCE: PRELIMINARY REPORT FROM A RANDOMIZED CLINICAL TRIAL
0511 2:00pm-2:15pm
SPOUSAL INVOLVEMENT IN ADHERENCE TO CPAP TREATMENT
Ye L, Kayser K, Gautam S, Malhotra A, Patel SR
0604 2:15pm-2:30pm
NATIONAL PATIENT SURVEY OF EXPERIENCES WITH DIAGNOSIS AND MANAGEMENT OF SLEEP APNEA

O26: Circadian Rhythms, Shiftwork and Health
1:30pm-2:30pm | Room 304/306
Chair: Sabra Abbott, MD, PhD
0679  1:30pm-1:45pm
**ENDOGENOUS CIRCADIAN RHYTHM IN A MARKER OF MYOCARDIAL OXYGEN CONSUMPTION**
Thosar SS, Herzig MX, Berman AM, Roberts SA, Clemons NA, Morimoto M, Burchill LJ, Butler MP, Emens JS, McHill AW, Bowles NP, Shea SA

0680  1:45pm-2:00pm
**ADULTS WITH DELAYED SLEEP-WAKE PHASE DISORDER HAVE MORE SLEEP AND CIRCADIAN VARIABILITY THAN HEALTHY CONTROLS**
Burgess HJ, Park M, Wyatt JK, Rizvydeen M, Fogg L

0681  2:00pm-2:15pm
**AWAKE WITH THE ENEMY-VACCINATION RESPONSE IS REDUCED BY NOCTURNAL SHIFT WORK**

0682  2:15pm-2:30pm
**COMPARING SLEEP, BURNOUT AND QUALITY OF LIFE IN AIRLINE GROUND CREW SHIFT WORKERS MOVING FROM 8- TO 12-HOUR ROTATING SHIFT SCHEDULES: A PILOT FIELD STUDY**
Tzischinsky O, Hadish-Shogan S, Zvi I, Shochat T

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**S28: Spaceflight Effects on Sleep and Performance**
1:30pm-2:30pm  |  Room 311

**Chair:** Mathias Basner, MD, PhD

1:30pm-1:45pm  |  **Sleep Duration and Circadian Rhythms During a 520-day Simulated Mission to Mars**
Mathias Basner, MD, PhD

1:45pm-2:00pm  |  **Sleep Deficiency and Use of Hypnotic Drugs Among Astronauts Before, During and After Spaceflight: an Actigraphy Study in 78 Astronauts**
Laura Barger, PhD

2:00pm-2:15pm  |  **Sleep Duration and Neurobehavioral Performance During 6-month ISS Missions: an Observational Study in 24 Astronauts**
David Dinges, PhD

2:15pm-2:30pm  |  **Overview of the Fatigue Management Services Implementation Plan for the International Space Station Mission Operations Personnel at NASA Johnson Space Center**
Smith Johnston, MD

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**O27: Sleep, Neurodegeneration and Aging**
1:30pm-2:30pm  |  Room 302

**Chair:** Jonathon Wisor, PhD

0271  1:30pm-1:45pm  |  **SEVERE OBSTRUCTIVE SLEEP APNEA IS ASSOCIATED WITH SELECTIVE ATROPHY OF NEURONAL LAYERS IN THE HIPPOCAMPUS AND REDUCED MYELINATION**
Owen JE, Gislason T, Benediktsdottir B, Robinson SR

0272  1:45pm-2:00pm  |  **CHRONIC SHORT SLEEP INITIATES AN AMYLOID CASCADE IN LOCUS COERULEUS NEURONS AND TAU-DEPENDENT NEURODEGENERATION**

0273  2:00pm-2:15pm
**BASELINE EXCESSIVE DAYTIME SLEEPINESS ASSOCIATED WITH AN INCREASE IN BRAIN METABOLISM IN NON-DEMENTED ELDERLY: A LONGITUDINAL FDG-PET STUDY**
Carvalho DZ, St. Louis EK, Boeve BF, Knopman DS, Lowe VJ, Roberts RO, Mielke MM, Przybelksi SA, Petersen RC, Jack CR, Vemuri P

0274  2:15pm-2:30pm
**NON-VISUAL EFFECT OF LIGHT ON COGNITIVE BRAIN FUNCTION: AGE AND IMPACT OF LENS YELLOWING**

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**Refreshment Break in the Exhibit Hall**
2:30pm-2:45pm
O28: PAP Power! Outcomes of Treatment

2:45-4:45pm  |  Ballroom C

Co-chairs: Christine Won, MD and Lauren Tobias, MD

0512  2:45pm-3:00pm
RESIDUAL SLEEPINESS ON CONTINUOUS POSITIVE AIRWAY PRESSURE THERAPY IN PATIENTS WITH OBSTRUCTIVE SLEEP APNEA
Budhiraja R, Kushida C, Nichols D, Walsh J, Simon R, Gottlieb D, Quan S

0513  3:00pm-3:15pm
MECHANISMS OF CONTINUOUS POSITIVE AIRWAY PRESSURE RESIDUAL SLEEPINESS USING DIFFUSION MAGNETIC RESONANCE IMAGING

0514  3:15pm-3:30pm
SIX MONTHS OF CONTINUOUS POSITIVE AIRWAY PRESSURE TREATMENT IMPROVES NEUROBEHAVIORAL FUNCTION AND QUANTITATIVE SLEEP ELECTROENCEPHALOGRAM MEASURES IN OBSTRUCTIVE SLEEP APNEA

0515  3:45pm-4:00pm
EFFECTS OF CONTINUOUS POSITIVE AIRWAY PRESSURE ON BODY COMPOSITION, PHYSICAL ACTIVITY AND FOOD INTAKE IN PATIENTS WITH OBSTRUCTIVE SLEEP APNEA
Shechter A, Palaparthi NT, Igudesman DA

0516  4:15pm-4:30pm
LONG TERM EFFECTS OF COMPLIANCE WITH POSITIVE AIRWAY PRESSURE THERAPY IN PATIENTS WITH OBESITY HYPVENTILATION SYNDROME
Bouloukaki I, Mermigkis C, Protopapadakis C, Markakis M, Bolaki M, Mauroudi E, Moniaki V, Schiza S

0517  4:30pm-4:45pm
A RETROSPECTIVE COMPARISON OF CONVENTIONAL BILEVEL POSITIVE AIRWAY PRESSURE WITH BACK UP RATE TO AVERAGE VOLUME ASSURED PRESSURE SUPPORT IN PATIENTS WITH RESPIRATORY INSUFFICIENCY RELATED TO NEUROMUSCULAR DISEASE
Patel SI, Herold D, Gay P, Morgenthaler T, Olson E, Selim B

O29A: Hypersomnia Treatment

2:45-3:45pm  |  Room 304/306

Co-chairs: Nancy Foldvary-Schaefer, DO and Mukesh Kapoor, MD

0650  2:45pm-3:00pm
INCIDENCE AND DURATION OF COMMON, EARLY-ONSET, TREATMENT-EMERGENT ADVERSE EVENTS OCCURRING DURING TWO RANDOMIZED, PLACEBO-CONTROLLED, PHASE 3 STUDIES OF SODIUM OXYBATE FOR THE TREATMENT OF EXCESSIVE SLEEPINESS IN PATIENTS WITH NARCOLEPSY
Husain AM, Bujanover S, Ryan B, Scheckner B, Black J, Profant J

0651  3:00pm-3:15pm
ASSESSING THE BENEFITS OF SODIUM OXYBATE ON FUNCTIONING, PRODUCTIVITY AND HEALTH-RELATED QUALITY OF LIFE IN PEOPLE WITH NARCOLEPSY: FINDINGS FROM THE NEXUS NARCOLEPSY REGISTRY
Villa K, Black J, Bujanover S, Cisternas M, Gow M, Ohayon M, Pasta D, Patterson M, Thorpy M

0652  3:15pm-3:30pm
HEALTH-RELATED QUALITY OF LIFE IN NARCOLEPSY AND IDIOPATHIC HYPERSOMNIA
Kowalczyk S, DeBassio W
0653  3:30pm-3:45pm
WORSENING PSYCHOMOTOR VIGILANCE AFTER BRIEF NAPS IN HYPERSONOMOLENT PATIENTS: MSLT NAP CORRELATES
Saini P, Bremer EM, Brayles SS, Rye DB, Trotti L

O29B: Technology and Innovation in Sleep Diagnostics
3:45-4:45pm  | Room 304/306
Co-chairs: Meir Kryger, MD and Max Hirshkowitz, PhD

0762  3:45pm-4:00pm
ACCURACY OF CONSUMER MONITORS FOR MEASURING SLEEP ACROSS SEVEN NIGHTS

0606  4:00pm-4:15pm
WEARABLE INNOVATION IN SLEEP: DIAGNOSIS AND TREATMENT OF OBSTRUCTIVE SLEEP APNEA
Afrin K, Bukkapatnam S, Shivaram T, Nguyen V, Nicolaas D

0763  4:15pm-4:30pm
AUTOMATED PIPELINE FOR SPECTRAL ANALYSIS OF EEG DATA: THE NATIONAL SLEEP RESEARCH RESOURCE TOOL
Mariani S, Tarakhi L, Djonlagic I, Cade B, Morrical M, Yaffe K, Stone K, Loparo K, Purcell S, Aeschbach D, Redline S

0448  4:30pm-4:45pm
CLINICAL VALIDATION OF A DIAGNOSTIC PATCH FOR THE DETECTION OF SLEEP APNEA
Merchant M, Farid-Moayar M, Zobnin Y, Parfenov A, Askeland J, Sturm A

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O30: Learning, Memory and Cognition
2:45-4:45pm  | Room 302
Chair: Robert Stickgold, PhD

0204  2:45pm-3:00pm
PSYCHOSTIMULANTS INCREASE SALIENCE OF NEUTRAL INFORMATION AT ENCODING, BUT DISRUPT MEMORY CONSOLIDATION DURING SLEEP
Whitehurst LN, Mednick SC

0205  3:00pm-3:15pm
TO NAP OR NOT TO NAP? SLEEP-DEPENDENT MEMORY CONSOLIDATION IN TYPICALLY AND ATYPICALLY DEVELOPING PRESCHOOLERS

0206  3:15pm-3:30pm
THE EFFECT OF SLEEP INERTIA AND CHRONIC SLEEP RESTRICTION ON HUMAN COGNITIVE PERFORMANCE
McHill AW, Hull JT, Czeisler CA, Klerman EB

0275  3:30pm-3:45pm
AGE EFFECTS ON REM SLEEP AND PROSPECTIVE MEMORY CONSOLIDATION
Scullin M, Gao C, Krueger M, Ballard H, Bliwise D

0208  3:45pm-4:00pm
CIRCADIAN MISALIGNMENT IMPACTS ON HUMAN COGNITIVE PERFORMANCE
Chellappa SL, Morris CJ, Scheer FA

0209  4:00pm-4:15pm
OPTIMIZING Sleep-related MEMORY PROCESSES USING CLOSED-LOOP AUDITORY STIMULATION

0210  4:15pm-4:30pm
INHIBITION OF PROTEASOME ACTIVITY MITIGATES THE EFFECTS OF SLEEP DEPRIVATION ON OPERANT MEMORY IN APLYSIA
Lyons LC, Krishnan HC, Noakes EJ

0207  4:30pm-4:45pm
NESTING OF SPIKE SEQUENCE REPLAY WITHIN SLEEP OSCILLATIONS DURING NREM SLEEP
Krishnan GP, Wei Y, Komarov M, Bazhenov M
S29: Cardiovascular Benefits of OSA Therapy: Does Treatment Modality Matter?
2:45pm-4:45pm  |  Ballroom B

Chair: Raj Dedhia, MD

2:45pm-3:05pm  Overview of Cardiovascular Risk in OSA  Raj Dedhia, MD
3:05pm-3:35pm  Weight Loss on Cardiovascular Outcomes in OSA  Sanjay Patel, MD
3:35pm-4:05pm  Positive Airway Pressure on Cardiovascular Outcomes  Patrick Strollo Jr., MD
4:05pm-4:25pm  Oral Appliance Therapy on Cardiovascular Outcomes  Fernanda Almeida, DDS, PhD
4:25pm-4:45pm  Upper Airway Surgery on Cardiovascular Outcomes  Raj Dedhia, MD

S30: Sleep, Hormones and Pregnancy
2:45pm-4:45pm  |  Ballroom A

Chair: Ghada Bourjeily, MD

2:45pm-3:15pm  Sex Hormones and Sleep  Christine Won, MD
3:15pm-3:45pm  Sleep Deficiency and Pregnancy  Michele Okun, PhD
3:45pm-4:15pm  Willis-Ekbom Disease and Pregnancy  Mauro Manconi, MD, PhD
4:15pm-4:45pm  Sleep-disordered Breathing and Pregnancy  Ghada Bourjeily, MD

S31: In Search of Biomarkers for Sleep and Circadian Disruption
2:45pm-4:45pm  |  Room 311

Chair: Derk Jan Dijk, PhD

2:45pm-2:55pm  Introduction  Derk Jan Dijk, PhD
2:55pm-3:20pm  Opportunities in Translational Circadian Biology  John Hogenesch, PhD
3:20pm-3:55pm  Methods to Quantify Sleep-Wake and Circadian Effects in the Human Blood Transcriptome  Carla Moller-Levet, PhD
3:55pm-4:20pm  Monitoring the Circadian Clock in Human Blood Using Personalized Machine Learning  Jake Hughey, PhD
4:20pm-4:45pm  The Human Plasma Proteome: Sleep-Wake and Circadian Modulation  Kenneth Wright Jr., PhD
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**LBA 1 12:45PM - 1:00PM**

**BLUNTED EMOTIONAL INTENSITY FOLLOWING REPEATED EXPOSURE TO SLEEP RESTRICTION**

*Olia K1, Minkel J2, Haack M1*

1Beth Israel Deaconess Medical Center, Boston MA, 2Rhode Island Hospital, Providence, RI

**Introduction:** While acute sleep loss (up to three days) has shown adverse effects on emotional functioning, it is unknown whether such effects acclimate following chronic insufficient sleep. We investigated changes of affective responses to emotional photographs using a 3-week long in-laboratory model mimicking a pattern of sleep restriction during workweeks and recovery sleep during weekends.

**Methods:** Fourteen healthy participants (ages 18-55, 7 female) completed two 25-day stays in the Clinical Research Center. Participants completed a control stay, with 8-hour sleep opportunity every night, and a sleep restriction stay, with three cycles including 5 nights of 4-hour sleep opportunity and 2 nights of 8-hour sleep opportunity. Emotion testing involved presentation of 30 photographs (11 positive, 14 neutral, 5 negative; International Affective Picture System validated), during baseline and the 4th day of each week. Participants rated their affective valence (how positive or negative) and emotional intensity (strength of emotion) for each photograph using the Self-Assessment Manikin.

**Results:** A repeated measures mixed model analysis was used to examine effects of repeated sleep restriction compared to control sleep on ratings of valence and intensity. Participants reported less intense reactions to photographs throughout the sleep restriction stay compared to control (P < 0.10 for interaction effect), reaching significance during the third week of sleep restriction (p < 0.05). This effect resulted from decreased intensity to negative photographs (p < 0.05). No significant effect was found for valence.

**Conclusion:** These findings indicate prolonged exposure to sleep restriction adversely affects emotional functioning by decreasing intensity of emotions. Blunted emotional intensity is a risk factor for anhedonia, a symptom in psychiatric diseases. This is consistent with literature showing blunted emotional reactivity, but conflicts with disinhibition models predicting greater reactivity with sleep deprivation. This study provides first insight into how chronic insufficient sleep may increase risk of mental illness.

**Support:** NIH/NHLBI HL 105544, NIH/UL1 RR02758 and M01-RR-01032 from the National Center for Research Resources to the Harvard Clinical and Translational Science Center

**LBA 2 1:00PM - 1:15PM**

**GENETIC ASSOCIATION OF DAT1 GENETIC VARIANTS WITH SLEEP DURATION**

*Rhodes J1, Lane JM2,3, Vlasac I2,3, Czeisler C1,2,3,4, Saxena R2,3*

1Harvard College, Cambridge, MA, 2Center for Genomic Medicine, Massachusetts General Hospital, Boston, MA, 3Medical and Population Genetics, Broad Institute, Cambridge, MA, 4Division of Sleep and Circadian Disorders, Brigham and Women’s Hospital and Harvard Medical School, Boston, MA

**Introduction:** Short sleep duration has been linked to negative health effects, but is a complex phenotype with many contributing factors, including genetic factors.

**Methods:** Twenty-seven single nucleotide polymorphisms (SNPs) from 20 candidate genes were chosen from the literature for testing for association with sleep duration in the public UK Biobank sleep duration GWAS. Association analyses were performed between genetic variability in the selected genes and measurements of sleep duration, adjusted for age, sex and principal components of ancestry, in 111,975 individuals of European ancestry.

**Results:** A genomic region within DAT1, represented by lead SNP rs464049, was significantly associated with sleep duration (p=4.00*10^-5) and another in DRD2 (rs17601612) showed some evidence of association (p=0.0014). The DAT1 association signal has never before been described in humans.

**Conclusion:** Overall, SNPs in two dopamine-related genes were significantly associated with sleep duration, highlighting the important link of the dopamine system with sleep duration in humans.
**LBA 3 1:15PM - 1:30PM**

**α²-ADRENERGIC BLOCKADE AS A NOVEL PHARMACOTHERAPY FOR OBSTRUCTIVE SLEEP APNEA**

Poon C and Song G

Institute for Medical Engineering and Science, Massachusetts Institute of Technology, Cambridge, MA

**Introduction:** Previous drug candidates for obstructive sleep apnea (OSA) aiming to restore hypoglossal nerve activity and resultant pharyngeal dilator muscle tone during sleep have proved largely ineffective in preclinical and clinical studies. Episodic airway obstruction is known to induce a long-lasting noradrenergic-dependent increase in hypoglossal activity called hypoglossal long-term facilitation (hLTF) in animal models. We hypothesized that: (1) impairment of hLTF as a second-line motor defense against pharyngeal collapse during sleep may contribute to the pathogenesis of OSA; and (2) pharmacologic targeting of central noradrenergic neurons to restore not only hypoglossal activity but also hLTF may provide an effective drug treatment of OSA.

**Methods:** hLTF was induced by episodic airway obstruction and by optogenetic stimulation of A7 and A5 noradrenergic neurons in rats during spontaneous or cholinergic-induced REM sleep. Central noradrenergic drive was modulated by a clinically well-tested α²-adrenoceptor antagonist (yohimbine, a dietary supplement available over-the-counter in the USA) administered either systematically or focally at bilateral A7 and A5 neurons.

**Results:** (1) hLTF was robustly induced by episodic optogenetic stimulation of A7 or A5 neurons, as indicated by significant increase of hypoglossal activity (>30% above baseline, p<0.05, n=5) lasting >20 min post-stimulation. (2) REM sleep significantly decreased not only baseline hypoglossal activity but also hLTF induced by episodic airway obstruction (p<0.05, n=11). (3) The depressant effects of REM sleep on these first- and second-line motor defenses against pharyngeal collapse were promptly reversed by systemic administration of yohimbine (0.25-1.0 mg/kg i.v.). (4) Focal injection of yohimbine into bilateral A7 and A5 regions (n=5) produced similar beneficial effects on baseline hypoglossal activity and hLTF. (5) Systemic yohimbine also significantly enhanced phrenic activity during REM sleep (>30% above baseline, p<0.05, n=7).

**Conclusion:** Disinhibition of A7 and A5 neurons by α²-adrenergic blockade with yohimbine constitutes a potentially effective and relatively safe pharmacotherapy for OSA.

**Support:** HL093225, HL127258 and NS094178

**LBA 4 1:30PM - 1:45PM**

**UPPER AIRWAY STIMULATION THERAPY UTILIZED AS A RESCUE PROCEDURE FOR FAILED SLEEP SURGERY**

Huntley C, Doghramji K, Boon M

Thomas Jefferson University, Philadelphia, PA

**Introduction:** Many patients with obstructive sleep apnea (OSA) are unable to tolerate CPAP and alternative strategies are necessary. Upper airway stimulation (UAS) is a new addition to the surgical armamentarium which has shown success in initial outcome studies. We hypothesize that UAS is a successful rescue procedure for those patients who have failed sleep surgery.

**Methods:** We reviewed our series of patients undergoing UAS and selected those patients having undergone unsuccessful prior sleep surgery. We defined prior sleep surgery as unsuccessful if there was a residual AHI greater than 20. We reviewed demographic data including gender, age, BMI, and pre and postoperative Epworth Sleepiness Scale (ESS) score results. We also assessed pre and postoperative polysomnographic (PSG) data including AHI and O2 nadir. We also calculated rate of surgical success, defined as a decline in postoperative AHI by 50% and to a value less than 20. Lastly, we compared the outcome data to the cohort of patients who received UAS implantation, but did not undergo other types of sleep surgery.

**Results:** We have performed 66 UAS implantations at our institution. Of these patients, 12 received prior surgery for OSA. This included 8 UPPP, 3 MMA, and 1 tongue base resection. The patients undergoing prior sleep surgery consisted of 7 men and 5 women. The average age, BMI, and preoperative ESS scores were 53.2, 29.1, and 9, with standard deviations of 13.1, 3.3, and 3.9 respectively. The mean preoperative AHI and O2 nadir were 34.3 and 80.4 with standard deviations of 8.9 and 4.8 respectively. The mean postoperative AHI, O2 nadir, and ESS scores were 7.8, 87.8, and 6.7 with standard deviations of 11.4, 3.2, and 3.6 respectively. Postoperative AHI was significantly improved from preoperative. The surgical success rate was 91.7%. Compared to outcome measures of a cohort of patients undergoing UAS, but not other types of sleep surgery, there was not a significant difference in postoperative AHI, O2 nadir, ESS, or success rate.

**Conclusion:** UAS is a successful method of treating OSA and can be used to treat patients who have failed other types of sleep surgery.
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<td>Ion Powered Pump (IP™) Melatonin Delivery System</td>
<td>David Brodner, MD</td>
<td>Sunday</td>
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<tr>
<td>A Continuous Release Ion Powered Pump Melatonin Delivery System</td>
<td>Syed Shah, PhD</td>
<td>Sunday</td>
<td>5-7pm</td>
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<td>REM Absorption Kinetics Trial: A Randomized, Crossover Clinical Pharmacokinetics Evaluation of an Ion Powered Pump Melatonin Delivery System in Healthy Non-Smoking Adults</td>
<td>David Brodner, MD</td>
<td>Tuesday</td>
<td>5-7pm</td>
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www.REMfresh.com

*Data on file Physician’s Seal, LLC

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Industry Product Theaters feature presentations by our exhibitors. Boxed lunches are provided to the first 150 attendees; CME is not provided for these events. Please see the ad below and/or visit the exhibitors' booths for additional information about the event and to register.

**Monday, June 5 | 12:45pm-1:45pm**

*Philips Respironics* ........................................ Room 210  
Automation in Scoring and PAP Therapy

*ResMed* ........................................................... Room 311  
Raw Data, Real Insights: The Impact on Patient Care

*Inspire Medical Systems* ..................................... Room 313  
Incorporating Inspire Upper Airway Stimulation (UAS) into Your Practice

**Tuesday, June 6 | 12:30pm-1:30pm**

*Philips Respironics* ........................................ Room 210  
Novel Ways to Improve Sleep Quality

*Arbor Pharmaceuticals, LLC* .......................... Room 311  
Moving Toward Control: Treating Patients for Relief From Moderate-to-Severe Primary RLS

*Itamar Medical* .................................................. Room 313  
Cardiovascular Patients and the Future of Sleep Medicine

Industry Supported Events

The Industry Supported Events listed below offer CME, see the ads below for additional information about the event and how to register.

**Monday, June 5 | 6:15pm-8:45pm**

Sheraton Boston Hotel, Grand Ballroom  
Management of Narcolepsy and Excessive Daytime Sleepiness in Obstructive Sleep Apnea: Keys to Successful Outcomes  
Presented by Voxmedia, supported by Jazz Pharmaceuticals, Inc.

**Tuesday, June 6 | 6:15pm-8:45pm**

Sheraton Boston Hotel, Grand Ballroom  
Utilizing New Tools to Regulate the Sleep-Wake Mode and Better Treat Insomnia  
Presented by Vemco MedEd, supported by Merck & Co., Inc.
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http://usa.philips.com/healthcare/solutions/sleep-and-respiratory-care/sleep-diagnostic

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Raw data, real insights: The impact on patient care

SPEAKER:
Carlos M. Nunez, MD, Chief Medical Officer, ResMed

Boston, MA
Hynes Convention Center, Room 311
June 5th from 12:45 – 1:45 pm (lunch provided)

AGENDA:
- Advancements in sleep patient monitoring and management
- Personalized sleep medicine through connectivity
- Impacts on other areas of health and wellness

*Seating is limited, so please arrive early

Please join us for an Industry Product Theater

“Incorporating Inspire Upper Airway Stimulation (UAS) Into Your Practice”

Monday, June 5, 2017 • 12:45 PM – 1:45 PM
Room 313 - Hynes Convention Center, 3rd Floor

Program Chair:
Karl Doghramji, MD
Thomas Jefferson University

Faculty:
Eric M. Davis, MD
University of Virginia Health System

Larry I. Emdur, DO, PhD
Alvarado Hospital Medical Center, Inc.

Tina Gilbert, RPSGT, RST
American Sleep Medicine

Michael F. Coleman, BA, RST, RPSGT
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MOVING TOWARD CONTROL:
Treating Patients for Relief from Moderate-to-Severe Primary RLS

LUNCH WILL BE SERVED:
12:20pm-12:30pm Lunch served
12:30pm-1:30pm Presentation
Tuesday, June 6, 2017
Hynes Convention Center,
Room 311

GUEST SPEAKER:
DR. MARK D. BEJ, MD
• Fellow, American Academy of Neurology, 2015
• Certified in Neurology, American Board of Psychiatry and Neurology, 2015
• Certified in Sleep Medicine, American Board of Psychiatry and Neurology, 2012
• Fellow, American Clinical Neurophysiology Society, 2005

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Tuesday, June 6, 2017
Registration & Dinner
6:15 – 6:45 PM
Educational Program
6:45 – 8:45 PM

Additional Information: www.vemcomeded.com

**Management of Narcolepsy and Excessive Daytime Sleepiness in Obstructive Sleep Apnea: Keys to Successful Outcomes**

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EXHIBIT HALL FLOOR PLAN

As of 5/5/2017
EXHIBITORS

1st Providers Choice
Booth Number: 2012
Chandler, AZ | 1stproviderschoice.com
480-782-1116
1st Providers Choice Sleep Medicine EMR and Center Management Software IMS is a user-friendly, fully certified sleep medicine software. Doctors across the country have helped us to design and customize the software for maximum efficiency and profitability in your sleep medicine practice. Save hours of time on visit notes, sleep studies and documentation with sleep medicine specific templates.

3B Medical, Inc.
Booth Number: 2714
Winter Haven, FL | 3bproducts.com
863-226-6285
3B Medical, Inc. is a manufacturer and distributor of medical devices for the treatment of sleep-disordered breathing and oxygen therapy. Our line of CPAP, Auto-CPAP and Bi-Level devices are full featured with comprehensive compliance and efficacy data reporting. Our iCodeConnect patient management portal allows for a cellular cloud based solution to compliance data reporting.

AASM SleepTM
Booth Number: 2122
Darien, IL | sleeptm.com
888-334-6820
AASM SleepTM is a state-of-the-art telemedicine platform, designed by the American Academy of Sleep Medicine. Our secure, simple-to-use web-based video platform removes access barriers, allowing direct patient and provider interaction for high quality care.

Academy of Orofacial Myofunctional Therapy
Booth Number: 2106
Pacific Palisades, CA | aomtinfo.org
310-454-9444
The Academy of Orofacial Myofunctional Therapy (AOMT) helps lead in research facilitation, curriculum development and clinician training in the emerging field of orofacial myofunctional therapy (OMT). Visit our booth for the latest research and background on OMT as an adjunct treatment for sleep-disordered breathing.

ActiGraph
Booth Number: 1813
Pensacola, FL | actigraphcorp.com
877-497-6996
ActiGraph is a leading provider of clinical-grade activity and sleep/wake monitoring solutions for the global scientific community. Our wearable actigraphy monitors and innovative software solutions have been used for over a decade to capture high quality objective measures in thousands of health research and population studies around the world.

Activinsights
Booth Number: 2305
Cambridgeshire, United Kingdom | activinsights.com
+44 (0) 1480 862082
Since 2008, Activinsights have used lifestyle insight from wearables and connected devices to support healthcare services in over 40 countries around the world. Our technologies and data analysis approaches are supported by over 200 peer-reviewed scientific papers. Activinsights manufacture in England and is a privately held company based in Cambridgeshire.

Adako USA
Booth Number: 2228
Santa Ana, CA | adakousa.com
714-540-5595
Manufacturer and distributor of drug free pain management technology, TENS & EMS.
Advanced Brain Monitoring, Inc.

Booth Number: 2015
Carlsbad, CA | advancedbrainmonitoring.com
866-677-2737
Advanced Brain Monitoring is an industry leader in the development of novel diagnostic and treatment technologies for the sleep medicine field. The Sleep Profiler is a clinically-validated system for sleep and sleep-disordered breathing in the home or ICU. Night Shift and Apnea Guard deliver therapy to those suffering from sleep apnea.

AG Industries, LLC

Booth Number: 2006
St. Louis, MO | agindustries.com
800-875-3138
For over thirty years, AG Industries has proudly manufactured and distributed an extensive line of sleep and respiratory products, including our full line of CPAP masks and retail CPAP accessories. Our 2017 catalog is now available, featuring our newest products. Please visit our booth 2006, where our sales team will be happy to assist you with your respiratory therapy product needs.

Airway Management

Booth Number: 1913
Carrollton, TX | tapintosleep.com
866-264-7667
Airway Management offers products that improve the health and quality of life for people who suffer from sleep-disordered breathing. We are committed to supporting the clinician, health care professional and laboratory technician with high quality products for the treatment of snoring and sleep apnea.

Ambu Inc.

Booth Number: 1726
Columbia, MD | ambuusa.com
800-262-8462
Ambu has been developing and manufacturing electrodes since 1971 and sleep diagnostic products since 1985. We know that sleep professionals need innovative diagnostic tools to help improve the lives of their patients. In short, we help people sleep by promoting excellence in the diagnosis of sleep disorders worldwide.

Ambulatory Monitoring, Inc.

Booth Number: 2110
Ardsley, NY | ambulatory-monitoring.com
800-341-0066
Ambulatory Monitoring, Inc., presents its line of Motionlogger Actigraphs backed by over 30 years of peer reviewed validations demonstrating the most consistently high agreement with polysomnography across numerous populations including normal, sleep disturbed, pediatric, adult and geriatric populations. Don’t settle for actigraphs with no validation of their own or low specificity when you can have Motionloggers – the most sensitive and accurate actigraphs on the market.

APEX MEDICAL USA CORP.

Booth Number: 2826
Brea, CA | apexmedicalcorp.com
714-671-3818
At APEX, we are passionate about sleep apnea therapy. We know the difference it makes to millions of people around the world many of whom sleep with our products every night. We also believe CPAP should be simple and affordable. The products we develop always have these goals in mind and is why APEX has become one of the most popular and respected brands in the world of sleep medicine.

Aprima Medical Software

Booth Number: 2205
Richardson, TX | aprima.com
844-427-7462
Aprima offers innovative EHR, PM and RCM solutions for medical practices. It's easy to navigate MU, ICD-10, PQRS, CQMs and more. With Aprima, you can document sleep history and sleep schedule, as well as order sleep studies. Content includes sleep medicine exams and Epworth Sleepiness Scale.

Arbor Pharmaceuticals, LLC

Booth Number: 2414
Atlanta, GA | arborpharma.com
404-418-5305
Arbor Pharmaceuticals, headquartered in Atlanta, Georgia, is a specialty pharmaceutical company currently focused on the cardiovascular, hospital, neuroscience and pediatric markets. The company has over 700 employees including approximately 600 sales professionals promoting its products to physicians, hospitals and pharmacists. Arbor currently markets over twenty NDA or ANDA approved products with over 35 more in development.
Avadel Pharmaceuticals

Booth Number: 1925
Chesterfield, MO | avadel.com
314-422-6535
Avadel Pharmaceuticals is proud to be unique among pharmaceutical companies. Through patient-focused innovation, we are changing the options healthcare providers have for administering medication. We strive to commercialize products that are safe, effective and easy to take, helping patients adhere to their prescribed medical treatment and see better results.

Battery Power Solutions

Booth Number: 1723
Portland, OR | batterypowersolutions.net
877-445-5228
The Freedom™ CPAP Battery gives your patients the freedom to power their PAP device when and where they need it! Now they can enjoy their favorite outdoor and travel adventures while remaining compliant with their PAP therapy. The Freedom™ can also be used as a battery backup system during power outages.

Bfit Sleep

Booth Number: 1328
Battle Creek, MI | bfitsleep.com
269-205-8077
The BFIT sleep appliance is an excellent alternative the traditional rigid fixation appliances currently on the market. BFIT combines minimalistic design and comfort with the science of sleep medicine to produce an alternative to CPAP therapy or a winning combination together. Comfort equals compliance. The BFIT sleep appliance can accomplish both.

BlueSom

Booth Number: 1810
Orvault, France | bluepro.pro
+33228256143
BlueSom is the manufacturer of the mandibular advancement device BluePro. BluePro is a first-line oral appliance in snoring and obstructive sleep apnea (OSA). Sold exclusively to health professionals e.g. dentists, stomatologists, otolaryngologists, BluePro has 3 key features required for successful treatment: retention, titration, maintaining.

Board of Registered Polysomnographic Technologists

Booth Number: 2007
McLean, VA | brpt.org
703-610-0263
BRPT is recognized around the world for the highest standards in sleep credentialing, certification and education.

Boston Children's Hospital

Booth Number: 1927
Boston, MA | bostonchildrens.org
617-919-4787
Boston Children's Hospital (BCH) is a 404-bed comprehensive center for pediatric health care. As one of the largest pediatric medical centers in the United States, BCH offers a complete range of health care services for children from birth through 21 years of age, with several programs continuing to see adult patients.

Bozeman Health

Booth Number: 1728
Bozeman, MT | bozemanhealth.org/careers
406-599-0674
Join a sleep medicine team that includes pulmonary/sleep medicine physician, 2 physician assistants and a sleep psychologist. We are seeking a BC/BE sleep medicine physician. Practice is 100% outpatient with shared call coverage of 4-bed AASM accredited sleep lab. Bozeman MT, which was recently rated one of the country’s “Best Places to Live”; this is an employed position with full benefits.
BRAEBON Medical
Booth Number: 2027
Kanata, ON | braebon.com
888-462-4841
BRAEBON has created medical devices for sleep medicine worldwide since 1998, including our MediByte and MediByte Jr home sleep apnea recorders. High quality sleep sensors include our PVDF effort sensors, oronasal cannulae, new family of disposable airflow sensors, RIP effort, new & improved reusable and disposable cTherm cannula thermistors.

Brain Vision, LLC
Booth Number: 2206
Morrisville, NC | brainvision.com
877-EEG-4MRI
Brain Vision LLC offers hardware and software for research with EEG/ERP/BCI, fNIRS, and TMS. We integrate EEG and PSG with fMRI, fNIRS, TMS, tES, in the context of sleep. Our solutions are offered for infants and adults that include wired and wireless systems with passive, active or dry electrodes.

Cadwell Industries, Inc.
Booth Number: 2708
Kennewick, WA | cadwell.com
800-245-3001
Helping you help others. At Cadwell®, we are passionate about enabling quality, informed outcomes for your patient care by delivering efficient, quality neurodiagnostic and neuromonitoring solutions. We take pride in combining customer input with our employees’ expertise and USA-made components to provide reliable solutions to the industry.

CareCredit
Booth Number: 2306
Costa Mesa, CA | carecredit.com
800-300-3046
CareCredit, a healthcare credit card accepted at over 200,000 locations nationwide, enables you to help more patients fit rising out-of-pocket medical costs into their monthly budget. CareCredit can help patients pay for care and help practices achieve their goals, improve cash flow, minimize the cost and time of billing and get paid in two business days.

Cheero USA
Booth Number: 2814
Newbury Park, CA | cheerousa.com
323-546-3505
Sleepion improves sleep with sound, light & aroma.

Choice One Medical
Booth Number: 2530
Toronto, ON, Canada | choiceonemedical.com
888-407-4791
At Choice One Medical we strive to provide the highest quality medical products to our clients following the latest innovations and modern designs that brings the healthcare to the highest standards.

CleveMed
Booth Number: 2215
Cleveland, OH | clevemed.com
877-253-8363
CleveMed is leading the future in medical services and devices for portable home sleep apnea testing. From monitors for home sleep apnea testing to full PSG, we aim to improve the delivery of care. Our web-based services and devices meet AASM guidelines for home sleep apnea testing, are easy for patients to use, streamline operations for healthcare providers and offer-cost efficient solutions for payers.

Compumedics
Booth Number: 1320
Charlotte, NC | compumedics.com.au
877-717-3975
Compumedics – trusted by leading medical facilities around the world since 1987, offers comprehensive and innovative solutions for in-lab, ambulatory, wireless and research sleep diagnostics. Compumedics leads with world’s-first: the Grael-HD-4K, PSG-Anywhere SomtePSG and the new ProFusion neXus 360 web-based lab management solution.

Condor Instruments
Booth Number: 1914
Sao Paulo, Brazil | condorinst.com.br
+ 55 11 98447-9910
Condor Instruments offers high quality wrist actimeters (actigraphs) for medical and research applications, specially tailored for sleep and circadian disorders monitoring.
Contour Products, Inc.
Booth Number: 2309
Charlotte, NC | contourproducts.com
800-692-6686
Since 1991, Contour Products, Inc. has been an innovative leader in the specialty sleep category. Contour is especially focused in the CPAP accessories industry. The company manufactures a variety of CPAP products that help to make CPAP easier for users. The product line includes the CPAPMax Pillow, CPAP Pillow, CPAP Mask Cleaners, CPAP Hose Cover and specialty pillowcases.

Didge for Sleep
Booth Number: 2315
Brooklyn, NY | didgeforsleep.com
347-871-3866
Didge For Sleep is a therapeutic learn-to-play didgeridoo method for people with sleep apnea, UARS and snoring. By strengthening the muscles of the throat and tongue, didgeridoo playing has been clinically shown to improve sleep results for many. In addition to our DVD, book and didgeridoo products, Didge For Sleep offers learning opportunities around the globe.

Doctor Multimedia
Booth Number: 1716
Las Vegas, NV | doctormultimedia.com
800-679-3309
We are experts in website design and marketing for the medical industry. We provide doctors with internet solutions and marketing techniques that turn the web into an advantage for their practices.

Dreampad
Booth Number: 2105
Aurora, CO | dreampadsleep.com
303-962-2521
The Dreampad is a unique sleep technology in the form of a luxury pillow. Our comfortable, therapeutic pillow helps reduce stress and induce sleep. Controlled by an app, its patented technology delivers music through gentle vibration, and is only heard by the user. The Dreampad is supported by Ivy League research which suggests that the vibrational music has an immediate calming effect on users.

DyMedix
Booth Number: 2107
Shoreview, MN | dymedix.com
888-212-1100
DyMedix Diagnostics manufactures and markets a complete line of adult, pediatric, and neonatal, reusable and disposable sensors. Exclusively using PVDF technology our sensors provide a number of advantages over traditional sensor products all backed by an unmatched 2 year warranty. Visit our booth and sense the difference.

Ebb Therapeutics
Booth Number: 1314
Oakmont, PA | cerevesleep.com
800-381-1145
SLEEP 2017 marks the introduction of ebb™ insomnia therapy, the first clinically-proven, FDA-cleared device to reduce sleep latency (to stage 1 and stage 2 sleep) in patients with primary insomnia. Stop by our booth to review the clinical data and test drive our wearable, drug-free insomnia therapy.

Elsevier, Inc.
Booth Number: 2300
Philadelphia, PA | elsevier.com
215-239-3900
Elsevier is a world-leading provider of information solutions that enhance the performance of science, health, and technology professionals, empowering them to make better decisions and deliver better care.

Enovative Technologies
Booth Number: 2400
Bishopville, MD | epulsemassage.com
800-742-5129
Enovative Technologies designs products that help improve people’s lives. Our brands focus on enhancing comfort, well-being and convenience for our consumers. We are one of the leading manufacturers of TENS units in the US and UK. We stand behind our brands and strive to provide best-in-class service to channel partners and end users.
Fisher & Paykel Healthcare
*Booth Number: 1520*
Irvine, CA | fphcare.com
949-453-4000
Fisher & Paykel entered the respiratory care market in 1971 with the development of a unique respiratory humidifier system for use in critical care. We now offer a broad range of products and systems for use in respiratory care, the treatment of obstructive sleep apnea, neonatal care and operating rooms.

Frantz Design Incorporated
*Booth Number: 2808*
Austin, TX | myersontooth.com/products/ema-first-step.php
800-588-7898
The EMA oral appliance from Myerson increases airway space by advancing the mandible using interchangeable straps. FDA cleared for the treatment of snoring and obstructive sleep apnea, EMA’s patient friendly design offers advantages not found in other oral appliances.

General Sleep Corporation
*Booth Number: 1622*
Cleveland, OH | generalsleep.com
888-330-4424
General Sleep Corporation introduces our latest product, the Zmachine Synergy. Combining traditional respiratory variables and body position with our patient-applied, single-channel, EEG technology and automated sleep staging, the Zmachine Synergy home sleep apnea test reports the AHI based on actual sleep time for improved accuracy, especially in less severe patients.

GM Instruments
*Booth Number: 1906*
Kilwinning, Scotland | gm-instruments.com
+44 (0) 1294 554 664
GM Instruments is a long-established UK based manufacturer where we devise, design and develop next generation specialist electronic instruments and products for the medical industry. GM Instruments design and manufacture Rhinomanometers and Acoustic Rhinometers for use by allergists, rhinologists, maxillofacial surgeons and in sleep studies such as obstructive sleep apnea.

Great Lakes Orthodontics, Ltd.
*Booth Number: 1908*
Tonawanda, NY | greatlakesortho.com
800-828-7626
For over 20 years, Great Lakes has been providing some of the most effective, clinically proven sleep appliances, diagnostic tools and technical support to dentists for their patients with snoring and obstructive sleep apnea. We offer the resources you need to confidently practice dental sleep medicine.

Hawaiian Moon
*Booth Number: 2227*
Clearwater, FL | aloecream.biz
888-256-3276
Say goodbye to dry skin with Hawaiian Moon organic aloe cream!

Hi-Tech Medical
*Booth Number: 1725*
Abbeville, SC | hitechmedical.net
866-467-3762
Hi-Tech Medical is a manufacturer of helix-reinforced, smooth interior medical hose assemblies. We take great pride in partnering with customers to deliver customized solutions, quality manufacturing, and outstanding customer service. From raw tubing to custom cuffing, we can make your next CPAP tube a reality!

Hsiner Co., Ltd.
*Booth Number: 2209*
Taichung City, Taiwan | hsiner.com
+866-4-25152480
Being a professional respiratory care medical device manufacturer, we have been dedicated to carefully providing the best quality and most sufficient solution as an accountable partner to human being healthcare.

Huneo, LLC
*Booth Number: 1721*
Gates Mills, OH | snoretrack.com
440-423-0064
Huneo’s SnoreCoach device and SnoreTrack smart-phone app help people to dramatically reduce snoring and position related breathing disturbances. SnoreTrack monitors snoring and communicates wirelessly with the SnoreCoach device which monitors sleep position. When snoring is detected in specified sleep positions SnoreTrack tells SnoreCoach to prompt the user to change position.
ImThera Medical, Inc.
Booth Number: 1824
San Diego, CA | imtheramedical.com
858-259-2980
ImThera Medical has developed a novel, fully implanted neurostimulation device for the treatment of obstructive sleep apnea (OSA). Imthera’s THN sleep therapy uses neurostimulation techniques and incorporates proprietary technology to deliver muscle tone to key tongue muscles during sleep, opening the upper airway and substantially reducing OSA events.

Our mission is to help patients live longer and enjoy better lives while reducing health care costs related to complications associated with OSA.

Inbody USA
Booth Number: 1326
Cerritos, CA | inbody.com
323-932-6503
InBody is a global leader in BIA body composition. By utilizing the most advanced technology and modern BIA techniques, InBody devices can determine your body fat percentage, skeletal muscle mass, BMR, total body water, and more without using any empirical estimations. Let InBody guide you to a healthier, happier life.

Indiana University Kelley School of Business,
Business of Medicine Physician MBA
Booth Number: 1828
Indianapolis, IN | kelley.iupui.edu/programs/physician-mba/
317-274-3855
IU Kelley’s Physician MBA is tailored to the physician learning style. Our one-of-a-kind curriculum, focused at the intersection of business and medicine, combines business and leadership fundamentals with specialized, strategic healthcare courses. Our 21-month MBA at our top ranked business school blends online on-demand learning with monthly weekend sessions in Indianapolis while earning CMEs.

Indigo Arc, LLC
Booth Number: 2028
Gaithersburg, MD | www.indigoarcmedical.com
301-637-0710
Indigo Arc offers robust, cloud-based sleep practice management and workflow solutions. The sleep lab management (SLaM) platform is a cloud based, pay as you go platform rich in features. These include PHR, scheduling, clinic, scoring support, online interpretations, archiving, practice performance dashboard and reports, integrated portals (patient, referring physician), integrated DME modules.

Infinity Massage Chairs
Booth Number: 2127
Seabrook, NH | infinitymassagechairs.com
603-347-6006
The Infinity Riage, one of the most advanced therapeutic massage chairs available. Covering 35% more of your body with the first glute massage, the Riage delivers stress relief like no other. State of the art roller foot reflexology, sensors for customized massage, lumbar heat, new iPhone app and Bluetooth music streaming, endless luxury, ultimate massage!

Inspire Medical Systems, Inc.
Booth Number: 2114
Maple Grove, MN | inspiresleep.com
763-205-7970
Inspire Medical Systems, Inc. is a leading developer of implantable neurostimulation systems to treat obstructive sleep apnea (OSA). Utilizing well established technologies from cardiac pacing and neurostimulation, Inspire developed a proprietary upper airway stimulation (UAS) therapy designed to improve sleep and enrich the lives of people suffering from this challenging condition.

Itamar Medical
Booth Number: 2408
Atlanta, GA | itamar-medical.com
888-748-2627
Itamar Medical Ltd. is a publicly traded medical device company (TASE:ITMR) that develops and markets innovative diagnostic and therapy solutions for sleep-related breathing disorders and cardiovascular conditions. WatchPAT, the FDA-approved flagship product developed by Itamar Medical, is used for diagnosing sleep apnea in the home environment.
Jazz Pharmaceuticals, Inc.
Booth Number: 2508
Palo Alto, CA | jazzpharma.com
650-496-2795
Jazz Pharmaceuticals plc (NASDAQ: JAZZ) is an international biopharmaceutical company focused on improving patients’ lives by identifying, developing and commercializing meaningful products that address unmet medical needs. The company has a diverse portfolio of products and product candidates with a focus in the areas of sleep and hematology/oncology.

KEGO Corporation
Booth Number: 1923
Lexington, KY | kegocorp.com
866-294-5346
KEGO is an international distributor of sleep and neurodiagnostic supplies. With locations in the USA and Canada, KEGO is your national “one stop shop”, representing major manufacturers of sleep and neurodiagnostic products. What can KEGO do for you today?

Kettering National Seminars
Booth Number: 2108
Dayton, OH | ketteringseminars.com
800-445-0860
Kettering National Seminars (KNS) conducts on-site review seminars for credentialing examinations in sleep technology. KNS also offers home study programs and webinars for practitioners who prefer another avenue.

Legacy Health Group
Booth Number: 2401
Portland, OR | legacyhealth.org
503-415-5982
Legacy Health, a nonprofit, locally owned organization based in Portland, Oregon, and serving Oregon, Southwest Washington and the Mid-Willamette Valley, is well-known for its hospitals, the only health system covering areas from Portland, Vancouver and south to Salem with multiple hospitals and a specialized children’s hospital.

Lifelines Neurodiagnostic Systems, Inc.
Booth Number: 2405
Troy, IL | lifelinesneuro.com
866-889-6505
Lifelines Neurodiagnostic Systems is celebrating 15 years as a pioneer in EEG. We implement our mission, changing lives through neurodiagnostic innovation, by providing solutions such as the Virtual EMU, which allows a patient to have their long-term video EEG recorded in the comfort of their own home.

Lucimed
Booth Number: 1821
Villers le Bouillet, Belgium | myluminette.com
32(0)4/369.48.36
Lucimed is a Belgian company that manufactures and distributes a pair of bright light glasses “Luminette” used for mood and circadian sleep disorders. Luminette is a natural and non invasive therapy device used every morning by more than 50,000 users worldwide.

MAGNA Pharmaceuticals
Booth Number: 2403
Louisville, KY | magnaweb.com
888-206-5525
Zolpimist Oral Spray, 5mg zolpidem tartrate per 0.1mL.
Zolpimist NDCs: 58407-0510-30 (30spray);
58407-0510-60 (60spray).
Zolpimist is rapidly absorbed through the oral mucosa, facilitating rapid sleep onset & dose assimilation. Wholesale Acquisition Cost: $38.88/30-sprays & $69.88/60-sprays. Zolpimist electronic POS coupon: Patient pays no more than $30, with or without insurance.

MedBridge Healthcare
Booth Number: 1527
Greenville, SC | medbridgehealthcare.com
866-527-5970
MedBridge Healthcare provides a comprehensive integrated model for sleep disorder evaluation, diagnosis and long-term respiratory care management. MedBridge Healthcare partners with some of the most innovative healthcare providers in the nation to improve access, cost and care for inpatient, outpatient, employer-based and episodic care populations.
restiffic is the newest addition to the medi portfolio of products. medi is a global leader in the medical compression, orthopedic, foot orthotic, and retail compression markets, and is committed to helping people all around the world live more independent, productive, and satisfying lives.

Merck & Co., Inc.
Booth Number: 2722
Kenilworth, NJ | merck.com
908-740-4000
Merck is a global health care leader working to help the world be well. Merck is known as MSD outside the United States and Canada. Through our prescription medicines, vaccines, biologic therapies, and animal health products, we work with customers and operate in more than 140 countries to deliver innovative health solutions.

Metamason
Booth Number: 2302
Los Angeles, CA | metamason.com
714-721-5555
Metamason is building the worlds first patient-matched CPAP mask. Our software platform leverages three dimensional scans of the patient’s face to create truly personalized CPAP interfaces 3D printed out of soft medical grade silicone.

MVAP Medical Supplies, Inc.
Booth Number: 2222
Newbury Park, CA | mvapmed.com
877-735-6827
MVAP, The one-stop-shop for all your sleep, EEG, respiratory, EMG, IOM, and cardiology supplies. We welcome you to check out our brand new 2017 sleep catalog, and get a first look at all of our exciting and innovative new products!! We pride ourselves in customer satisfaction, so please share your lab needs and wants, and we will work hard to not disappoint!

Narcolepsy Network, Inc.
Booth Number: 2307
North Kingstown, RI | narcolepsynetwork.org
888-292-6522
Narcolepsy Network is a patient support organization. We advocate for people with narcolepsy; raise awareness; educate the medical and lay community; support research. We offer an annual conference, walks, support groups, on-line groups and more. Our main office is in North Kingstown, RI, USA.

National Heart, Lung, and Blood Institute
Booth Number: 1712
Bethesda, MD | nhlbi.nih.gov
301-592-8573
The National Heart, Lung, and Blood Institute (NHLBI) provides global leadership for a research, training, and education program to promote the prevention and treatment of heart, lung and blood diseases and enhance the health of all individuals so that they can live longer and more fulfilling lives.

Natus Neurology
Booth Number: 1608
Middleton, WI | natus.com
800-356-0007
Natus Neurology is a provider of instrumentation for diagnosis and monitoring of sleep disorders, and offers a complete line of supplies and accessories for use in settings from private practice to hospital.

SleepVirture
Neurovirtual, Inc.
Booth Number: 2128
Doral, FL | neurovirtual.com
877-638-7640
Sleepvirtual specializes in the development, manufacturing, and sales of high-tech, premium-quality PSG devices. Our company’s mission is to provide high-quality medical equipment at an affordable price, and a technical support team available 24/7 for immediate support as needed. We take a people-first approach in everything we do, enhancing every aspect of the Sleepvirtual ownership experience.

Nightingale
Booth Number: 1909
Waltham, MA | meetnightingale.com
866-821-7333
Cambridge Sound Management, Inc. manufactures Nightingale, the world’s first smart home sleep system designed to mask common indoor and outdoor noises and help users sleep better every night. Nightingale can be controlled by the Nightingale iOS or Android app, or any web browser.
Nihon Kohden America
Booth Number: 2630
Irvine, CA | us.nihonkohden.com
800-325-0283
Nihon Kohden offers quality amplifiers and scalable network-based software solutions needed to meet the changing demands of today’s sleep field. Whether your needs require HSAT, portable polysomnography, lab-based PSGs or research grade diagnostic equipment, visit our booth and see how Nihon Kohden is providing different thinking for better healthcare.

Nonin Medical, Inc.
Booth Number: 1806
Plymouth, MN | nonin.com
800-356-8874
Nonin Medical makes noninvasive measurements simple by developing technologies and products that are accurate, durable, easy and affordable. Nonin designs and produces pulse and regional oximeters, capnographs, sensors and software. We sell to healthcare professionals and consumers globally, and we have more than 300 OEM partners worldwide.

NOVA INNOVATIONS
Booth Number: 2820
Las Vegas, NV | novainnovations.net
702-478-8084
Nova Innovations’ mission is to increase self-esteem and confidence in the business world. We are a national distributor for business solutions in various industries. Primarily our non-surgical solutions are offered in medical spas, pharmaceutical offices, and plastic surgeon offices.

Optigen Inc.
Booth Number: 2304
Jacksonville Beach, FL | militarycnap.com
800-273-9114
Optigen is a leading national provider dedicated to serving the unique needs of the military and their families by offering specialized PAP therapy equipment and premier care.

Optigen is the national military provider in every region of the country. Optigen accepts TRICARE, Medicare and most other insurance plans.

Optim LLC
Booth Number: 1905
Sturbridge, MA | optim-llc.com
800-225-7486
Optim LLC develops, manufactures and supports state-of-the-art endoscopy products and accessories that help medical professionals work more effectively and efficiently. OurBreakthrough, flexible ENTity™ Series with integrated LED lighting enable customers to bring precision optical capabilities wherever they are needed.

Ortho-Tain / Healthy Start
Booth Number: 1814
Winnetka, IL | thehealthystart.com
847-446-7600
The healthy start system by Ortho-Tain addresses sleep-disordered breathing while straightening teeth without braces. Toddler (ages 2-4), kids (5-7), preteen (8-12), and teen & adult (13+) systems use functional, orthopedic, treatment/finishing appliances to eliminate overbite, overjet, crowding, class III, TMJ problems while addressing poor oral habits and SDB symptoms.

Otto Trading, Inc.
Booth Number: 1826
Santa Ana, CA | unimedmassager.com
714-540-5595
Manufacturer and distributor of drug free pain management technology, TENS & EMS.

Ouraring, Inc.
Booth Number: 1428
San Francisco, CA | ouraring.com
415-513-8448
By focusing on the balance between daily physical activity and mental load and recovery, ŌURA helps you understand how your lifestyle choices affect your sleep & performance. So whether you’re an athlete or an optometrist, you can make informed lifestyle adjustments and experience an elevated level of daily performance.
Oventus
Booth Number: 1708
Wilmington, DE | oventusmedical.com
425-681-1894
Oventus Medical is an Australia medical device company offering a treatment platform for snoring and obstructive sleep apnea (OSA). Our O2VentTM customized oral devices incorporate Oventus Airway Technology – a unique airway built into its patented design, allowing for breathing through the device to bypass nasal resistance and velopharyngeal obstruction.

Oxford University Press
Booth Number: 2629
New York, NY | global.oup.com
800-445-9714
Oxford University Press proudly publishes SLEEP, the official journal of the Sleep Research Society (SRS), as well as some of the world’s leading health and medicine books, journals, and online resources. Visit our booth for discounts on relevant books and free journal samples.

PAD A CHEEK, LLC
Booth Number: 2005
Stanardsville, VA | padacheek.com
434-985-4003
At PAD A CHEEK, LLC we believe that a comfortable interface makes all the difference in CPAP adherence. We design successful add on products for patient protection. We offer custom designs as well for those special cases. Our products, tested by actual patients for over 13 years, have proven to help improve sleep apnea therapy. Let us show how we can help you help your patients sleep better.

Panthera Dental
Booth Number: 1921
Quebec City, QC | pantheradental.com
855-233-0388
Panthera Dental is a world leader in CAD/CAM prosthetic implant solutions and dental sleep appliances. Designing, developing, manufacturing and marketing high-level dental restoration solutions, mandibular advancement devices, and related products using superior quality materials and an advanced CAD/CAM process.

Pediatric Sleep Council
Booth Number: 1524
Philadelphia, PA | babysleep.com
610-660-1806
The Pediatric Sleep Council is an international team of experts in all aspects of sleep and development in young children. Our primary goal is to provide freely available, expert-driven information on sleep in young children to families via babysleep.com. We represent pediatric sleep experts, including physicians, psychologists and researchers.

Pernix Therapeutics
Booth Number: 2728
Morristown, NJ | pernixtx.com
973-975-0108
Pernix Therapeutics is a specialty pharmaceutical business with a focus on acquiring, developing and commercializing prescription drugs primarily for the U.S. market. Pernix targets underserved therapeutic areas such as CNS, including neurology and pain management.

Persante Health Care
Booth Number: 2402
Mt. Laurel, NJ | persante.com
856-316-1113
Persante Health Care is a national provider of sleep center management services to hospitals, physician practices and patients. We manage many of the top healthcare programs in the country and have served leading, award winning hospitals in the country with AASM accreditation standard programs for strong, profitable sleep centers. Together, we assess the needs of the sleep center program and create a model to successfully manage and grow the center.

Philips Respironics
Booth Number: 1408
Murrysville, PA | philips.com
800-229-6417
Philips Respironics, a global leader in the sleep and respiratory markets, is passionate about providing solutions that lead to healthier patients, healthier practices, and healthier businesses. Our ambition is about bringing healthcare home – that means getting people with COPD and respiratory illnesses, sleep disorders and other chronic diseases out of the hospital and back home.
Physician's Seal LLC
Booth Number: 2221
Boca Raton, FL | physiciansseal.com
561-995-1905
Physician's Seal is the innovator of REMfresh®, a continuous release and absorption melatonin that mimics the way the body naturally releases and maintains melatonin over a 7-hour period. Physician's Seal, based in Boca Raton, FL, is committed to cutting edge life science and world class clinical research.

Pinnacle Technology, Inc.
Booth Number: 1928
Lawrence, KS | pinnaclet.com
785-832-8866
Pinnacle Technology offers turn-key EEG/EMG systems for preclinical studies. Both cortical and depth electrodes are available. Optogenetics, biosensors, illuminators, sleep deprivation/fragmentation and synchronized video can be easily integrated into the core system. Innovative software is available to score and analyze your sleep data.

Proper Pillow
Booth Number: 2313
Carlsbad, CA | properpillow.com
800-961-7527
Proper Pillow is introducing the Proper Smart Pillow. By integrating an internal sensor network of force/pressure, audio and thermal sensors the Proper Smart Pillow communicates to an app via low energy blue tooth enabling the end user the ability to consistently observe their sleeping experience. Quantify your sleep while sleeping in optimal alignment with both back and side sleeping positions.

Provent Sleep Therapy, LLC
Booth Number: 2812
Manchester, NH | proventtherapy.com
888-757-9355
Provent Sleep Apnea Therapy is a simple, effective treatment option for OSA. Provent's proprietary micro valves use the power of your own breathing to create (EPAP) to keep the airway open. Available by prescription only, Provent is FDA cleared for the treatment of OSA. In clinical studies Provent was shown to effectively treat mild, moderate and severe OSA.

Quell by NeuroMetrix
Booth Number: 2210
Waltham, MA | quellrelief.com
800-204-6577
Quell® is a life changing wearable that combines 100% drug free neurotechnology to treat chronic pain with an app to personalize and control therapy. Quell offers advanced health tracking including pain, sleep, activity and gait. In a recent study, 81% of Quell users reported an improvement in their chronic pain.

Radiometer America
Booth Number: 1526
Brea, CA | radiometeramerica.com
800-736-0600
Radiometer America offers a complete range of transcutaneous monitoring systems that continuously trend pO2, pCO2 and pulse rate values. Our transcutaneous monitoring systems are gentle and non-invasive. They provide real-time trending information for neonatal, pediatric and adult patients in intensive care units, as well as non-critically ill patients in sleep centers and wound care clinics.

RemZzzs
Booth Number: 1915
Jackson, MI | remzzzs.com
877-473-6999
Naturs Design, Inc. owns the patent FDA exempt medical product, RemZzzs CPAP mask liners. RemZzzs is a disposable cotton liner worn with a CPAP mask and provides the following benefits to its users: Eliminates and/or reduces noisy air leaks, eliminates and/or reduces skin irritations, absorbs facial moisture and oil, promotes a comfortable full night of sleep...for patient and partner.

ResMed
Booth Number: 2422
San Diego, CA | resmed.com
800-424-0737
ResMed changes lives with award-winning medical devices and cutting-edge cloud-based software applications that better diagnose, treat and manage sleep apnea, COPD and other chronic diseases. ResMed is a global leader in connected care, with over 2 million patients remotely monitored every day.
Respitec
Booth Number: 2013
San Jose, CA | respitec.us
408-802-8187
Respitec is the maker of Nasal Aid, the ultimate nasal dilator. Nasal Aid is the only fully adjustable, long lasting and affordable nasal dilator on the market. At Respitec we believe that when you breathe better, you are able to sleep better, improving your quality of life.

Restless Legs Syndrome Foundation
Booth Number: 2208
Austin, TX | rls.org
512-366-9109
The RLS Foundation is the leading nonprofit patient advocacy organization providing support & hope for individuals & their families affected by this serious neurological disease. We fund a research program dedicated to finding a RLS cure, certify RLS Quality Care Centers, provide a HCP directory, and educational materials to physicians & patients resulting in an improved quality of life.

Resvent Medical Technology Co., Ltd.
Booth Number: 1910
Shenzhen, China | resvent.com
+86 18688783710
Resvent Medical Technology Co., Ltd. was founded in Shenzhen China. The company is initiated by a number of senior people in medical respiration field and invested by listed companies. Devotion in research, manufacture and service, Resvent provides the solution for needs of respiratory machines and systems for home and hospitals.

Re-Time Pty Ltd
Booth Number: 1816
Austin, TX | re-timer.com
904-864-4530
Thim is the world’s first wearable device to implement a patented Intensive Sleep Re-training (ISR) program developed by leading sleep psychologists. Thim utilizes a simple behavioral technique to reduce sleep onset latency.

Rhinomed
Booth Number: 2216
Cincinnati, OH | mutesnoring.com
800-539-0160
With a focus on nasal breathing, Rhinomed’s technology provides a front line defense against sleep-disordered breathing which can result in a variety of sleep problems. The intranasal device gently stents the nostril allowing smoother airflow and prevents collapse.

S.L.P./SleepSense
Booth Number: 1822
Elgin, IL | sleepsense.com
888-757-7367
For over 20 years SLP has been introducing innovative and high quality sleep diagnostic sensors into sleep labs worldwide. The SleepSense line of sensors is designed to offer more accurate signal readings, higher durability and better patient compliance. SleepSense sensors match nearly all PSG systems and channels including: snore, inductive belts, pressure & thermal flow and body position.

SANOSTEC CORP
Booth Number: 2818
Beverly Farms, MA | maxairnosecones.com
800-797-0361
SANOSTEC’s Sinus Cones® | Max-Air Nose Cones® are soft, nasal airway relief aids that are patented, latex-free, hypoallergenic and reusable. The Cones stent open the nasal airway to maximize inspiratory flow to treat primary snoring and URAS; and to be used as adjunct therapy to improve CPAP and OAT compliance.

Sleep Multimedia, Inc.
Booth Number: 2010
Scarsdale, NY | sleepmultimedia.com
914-722-9291
SleepMultiMedia v. 10.0 is a computerized textbook of sleep medicine with text, sound, graphics, animation & video. Updated annually with 140 CME credits, the program covers clinical sleep medicine, dental sleep medicine, sleep physiology, polysomnography, sleep research and sleep practice management. NEW: Online real-time access to references through Medline. Available on USB flash drive.
Sleep Review / RT Magazine
Booth Number: 1427
Leawood, KS | sleepreviewmag.com
937-550-4413
Sleep Review and RT Magazines are the glossy trade magazines in the fields of sleep medicine and respiratory therapy, respectively. They provide practical insights, clinical updates, trends and product news. Subscriptions are free for US-based sleep medicine and respiratory professionals. Stop by our booth to suggest story ideas or see if we can assist with your marketing needs.

Sleep Specialists LLC (dba 2Z Medical)
Booth Number: 2327
Bala Cynwyd, PA | zzomaosa.com
877-799-9662
Sleep Specialists, LLC (www.ZzomaOsa.com) is a medical device company that specializes in sleep therapy. Our team of board certified physicians designed the Zzoma®, an FDA-cleared Class II (prescription only) medical device for the treatment of sleep apnea. The company is headquartered in Bala Cynwyd, Pennsylvania, and works with various distributors.

Sleep Strategies, Inc.
Booth Number: 2822
Ottawa, ON | sleepstrategies.com
800-905-0348
Providing award-winning, professional scoring services performed only by RPSGTs, Sleep Strategies is one of the largest sleep analysis companies devoted exclusively to assisting sleep laboratories maximize budgets, control labor costs, increase productivity and enhance patient care.

SleepEx LabRetriever
Booth Number: 1825
Conshohocken, PA | mylabretriever.com
800-235-9830
LabRetriever is web-based sleep lab management software by SleepEx. Designed for single-site to enterprise class laboratory networks, LabRetriever provides one of the most interoperable solutions in the sleep industry. Users can efficiently manage patient scheduling, referrals, physician review, reporting, messaging, HSAT, and DME fullfilment to deliver high quality patient care.

SleepImage
Booth Number: 1626
Broomfield, CO | sleepimage.com
888-975-7464
SleepImage is an FDA-cleared, low cost, medically-actionable system that provides objective, clinical rationale to identify individuals with indications of severe, moderate or minimal sleep issues.

SleepMed, Inc.
Booth Number: 2301
Downingtown, PA | sleepmedinc.com
800-753-3763
SleepMed is one of the largest private sleep diagnostics and therapy providers in the nation. We provide nationally scalable home sleep apnea testing, sleep lab management, multi-manufacture PAP therapy and sleep health improvement programs for physicians, dentists, hospitals, payors and employers. Ask us about our DOT testing solutions!

Slumberbump, LLC
Booth Number: 1714
St. George, UT | slumberbump.com
435-674-2100
SlumberBUMP™ is an alternative-conservative therapy for Snoring and Sleep Disordered Breathing™ which improves sleep-related quality of life. Positional sleep therapy is clinically proven to help those with snoring and sleep-related breathing disorders. SlumberBUMP™ provides a comfortable and affordable positional sleep therapy device, a non-medicated solution for better sleep.

SoClean
Booth Number: 2021
Oxford, MA | soclean.com
866-501-3705
SoClean is an automated CPAP cleaner and sanitizer. Highly rated with CPAP users the SoClean is the faster, easier, more effective way to clean CPAP machine equipment. SoClean kills 99.9% of CPAP germs and bacteria in your mask, hose and reservoir with no disassembly, no water and no chemicals in order to enhance your home CPAP experience.
**Somna Therapeutics, LLC**  
*Booth Number: 2009*  
Germantown, WI | rezaband.com  
262-345-5553  
Somna Therapeutics medical device company is the maker of the Reza Band UES Assist Device focused on improving quality of life for millions of people suffering from LPR symptoms due to acid reflux into the throat and lungs. The Reza Band is a non-medication, non-surgical, externally worn band that works by applying pressure to the weak or leaky UES.

**SomnoMed**  
*Booth Number: 2430*  
Plano, TX | somnomed.com  
888-447-6673  
SomnoMed is a global leader in COAT™ (Continuous Open Airway Therapy), and has innovated OSA treatment options since 2004. Our devices are designed with patient comfort as a priority, and we are proud to have the best support and service system for you and your patients.

**SOMNOmedics**  
*Booth Number: 1922*  
Coral Gables, FL | somnomedics-diagnostics.com  
866-361-9937  
SOMNOmedics designs, manufactures, distributes and services products dedicated to sleep diagnostics. Our products are utilized for a variety of sleep-related tests and comply with AASM standards. SOMNOmedics devices are small, light-weight and patient-worn. They are upgradeable at any time and compatible with in-lab diagnostics and home sleep apnea testing.

**Somnoware Healthcare Systems**  
*Booth Number: 1614*  
Santa Clara, CA | somnoware.com  
888-706-0788  
Somnoware is transforming sleep health management by accelerating diagnostics and increasing therapy adherence. It automates sleep testing processes, provides actionable data and predictive insights to physicians and drives patient engagement. Our customer base includes leading health systems, independent sleep centers and sleep services companies.

**Splintek, Inc./SleepRight**  
*Booth Number: 2830*  
Kansas City, MO | sleepright.com  
888-792-0865  
Founded in 1996, Splintek, Inc. is a privately held company with a clinical heritage. Splintek, Inc. manufactures and distributes high quality Rx and OTC healthcare products under the SleepRight® brand name. The product line includes memory foam pillows, dental guards, nasal breathe aids, intra-nasal vapor inhalers and volume control ear plugs.

**TelOmed LLC**  
*Booth Number: 2827*  
Alpharetta, GA | telomedllc.com  
888-985-1125  
TelOmed develops and markets smart home sleep monitoring devices based on its leading pulse oximetry technology. Home sleep screening is a more convenient and affordable alternative to traditional sleep studies. Real-time data provides a high-quality solution for consumers and remote access for physicians using user-friendly smartphone apps and a HIPAA-compliant cloud server.

**The Ultimate Pillow**  
*Booth Number: 1807*  
Plano, TX | ultimatepillow.net  
972-473-7300  
The Ultimate Pillow’s center is lower, so it reduces neck strain for back sleepers. The sides of the Ultimate Pillow are slightly higher, which provides an increased level of support for side sleepers. The same shape that makes the Ultimate Pillow ideal for side and back sleepers also alleviates common CPAP issues. The cool, ventilated memory foam offers the ultimate in support and comfort.

**TSI Healthcare**  
*Booth Number: 2213*  
Chapel Hill, NC | tsihealthcare.com/pulmonary  
800-354-4205  
TSI Healthcare is a pulmonary & sleep medicine EHR, supporting hundreds of independent pulmonologists. Providers have the freedom to document how they want, whether it’s dictating, smart phrases, templates or typing. Providers can also bring forward their previous note, along with ordering PSG’s or home sleep apnea tests directly out of the system. Fewer clicks!
University of Tennessee Physician Executive MBA Program

Booth Number: 2502
Knoxville, TN | pemba.utk.edu
865-974-1772

The University of Tennessee Physician Executive MBA, internationally accredited and top ranked since its inception in 1998, is offered exclusively for physicians seeking leadership skills and knowledge. This 1-year-long EMBA incorporates: four one-week residency periods, internet-based distance learning, a physician network of 600+ alumni, CME and personalized leadership development.

Vanda Pharmaceuticals Inc.

Booth Number: 2522
Washington, DC | vandapharmaceuticals.com
202-734-3400

Vanda is a global biopharmaceutical company focused on the development and commercialization of innovative therapies to address high unmet medical needs and improve the lives of patients. For more on Vanda, please visit www.vandapharma.com.

Verus Healthcare, Inc.

Booth Number: 1525
Franklin, TN | verushealthcare.com
615-921-7042

Verus Healthcare is focused on the CPAP therapy market. We partner with sleep labs through strategic partnerships and services agreements. We offer patients the highest quality products and service, and currently service more than 120,000 CPAP patients. We have Medicare competitive bid contracts in every market in the continental US.

Virtuox Inc.

Booth Number: 2321
Coral Springs, FL | virtuox.net
877-456-3529

Virtuox, Inc. is a privately held medical technology services company that provides diagnostic tools and services that enable a variety of healthcare organizations and professionals diagnose and treat respiratory diseases through vertically integrated platforms, products and services.

Vyaire Medical

Booth Number: 1308
Yorba Linda, CA | vyaire.com
760-690-2065

Vyaire Medical has been market leaders in sleep diagnostics for over 30 years. The SomnoStar system helps you run a thorough diagnostic test using a comprehensive set of features. The NOX-T3 is a full-featured HSAT device with audio playback, PTT, sleep time, and pediatric, dental, cardiology applications. All of our applications have a single seamless HL7 integration to health systems EMR systems.

Wake Up Narcolepsy, Inc.

Booth Number: 2501
Worcester, MA | wakeupnarcolepsy.org
616-292-5482

Wake Up Narcolepsy is a nonprofit organization dedicated to speeding narcolepsy diagnosis through greater awareness and funding medical research to find a cure. Wake Up Narcolepsy has quickly become a national leader for narcolepsy research funding and awareness. Unrestricted grants funded by WUN have led to breakthroughs in research and an acceleration of the understanding of this disease.

Weaver and Company

Booth Number: 2214
Aurora, CO | weaverandcompany.com
800-525-2130

Weaver and Company’s Nuprep® Skin Prep Gel lowers impedance to improve electrode tracings. Its mild abrasive formula improves conductivity and helps achieve maximum efficiency with equipment. Ten20® Conductive Paste contains the right balance of adhesiveness and conductivity enabling the electrodes to remain in place while allowing the transmittance of electrical signals.

Whole You - Respire Medical

Booth Number: 1907
Brooklyn, NY | wholeyou.com
844-LIVE-FULLY

Whole You (Respire Medical division) is an oral appliance company providing top quality, functional, state-of-the-art devices to treat patients who snore, experience OSA and those with OSA symptoms.” On April 25, Whole You/Respire Medical will be launching The Respire Blue + and The Respire Pink +, these sleep appliance improvements are the largest to date in the companies history.
Wilding Wallbeds
Booth Number: 1722
St. George, UT | clinicalproseries.com
866-877-7803

Wilding Wallbeds is changing the future of how sleep clinics function with their commercial line of furnishings. These furnishings allow practitioners, clinics and hospitals to transform their current daytime space into sleep testing space by night. The Clinical Pro Series product line reflects a focus on safety and durability without compromise to quality or workmanship.

World Sleep Society
Booth Number: 1809
Rochester, MN | worldsleepsociety.org
507-316-0084

World Sleep Society represents individuals and sleep societies. World Sleep, a joint congress of WASM and WSS, will be held October 7-11, 2017 in Prague, Czech Republic. Scientific presentations include 17 pre-congress courses, 16 keynotes, 102 symposia, and expected 700+ oral and poster abstracts. Join the 2500+ audience from 70+ countries by attending.

The ASMF strives to enhance sleep health by funding research in strategic areas that will move the field of sleep medicine forward and supporting sleep scientists at all stages of their careers.

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ABSM Junior Faculty Research Award
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POSTER HALL
5pm-7pm

Sunday, June 4th
Monday, June 5th
Tuesday, June 6th

The ASMF is a not-for-profit 501(c)(3) charitable and scientific organization. Your contribution should be fully tax deductible as allowed by law. Please contact your tax advisor for more information.

FOR MORE INFORMATION VISIT DISCOVERSLEEP.ORG

MAKE A DONATION OF $95 OR MORE TO THE AASM POLITICAL ACTION COMMITTEE

Health care and research are under assault!

We need your support to ensure that the decision makers on Capitol Hill recognize the value of sleep medicine and sleep research. Help us raise $95,000 between now and the beginning of the fall congressional session on Sept. 5 (9/5).

GIVE TODAY AT THE SOCIETY BOOTH!

As an extra incentive, all U.S. members who give $250 or more to the AASM PAC between now and Sept. 5, 2017, will receive a pen handcrafted by retiring AASM Executive Director Jerry Barrett. Make a donation of $500 or more, and you will receive a premium, handcrafted fountain pen.

Thank you for supporting the sleep field.

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