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Sleep & Respiratory Neurobiology

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MESSAGE FROM THE ASSEMBLY CHAIR

The [Sleep and Respiratory Neurobiology Assembly](#) continues to play an active role in the ATS and continues to promote the clinical, research, and education missions within sleep medicine. I would like to take this opportunity to highlight some of the many activities ongoing within the Assembly:

- SRN Program:** The major activity of the Assembly is programming of the ATS International Conference. The Program Committee under leadership of Chair Robert Owens and Chair-Elect Esra Tasali invested tremendous effort into programming sleep medicine sessions at the ATS International Conference to be held in Washington D.C. from May 19th – May 24th. The Committee has put together a phenomenal program with an eye towards public policy given that our Conference is in our Nation's Capital. Titles of the symposiums include "Sleep and Public Health", "State of the Sleep Union", and "Positive Pressure + Negative Adherence = High Priority" and other topics. This last topic has been named this year in honor of **Dr. Nick Antic**, our colleague who recently passed away, to commemorate his service to our assembly. Please, see the Program Committee report for other content, including post-graduate courses, mini-symposia and others.
- Planning Committee:** The Planning Committee under leadership of Dr. Reena Mehra continued to review and support ongoing Assembly Projects. Ongoing projects include the Clinical Practice Guideline on the 'Role of Weight Management in the Treatment of Adult Obstructive Sleep Apnea' lead by Dr. David Hudgel. This document should be published later year, and provide guidance on how clinicians caring for OSA can potentially co-manage weight loss strategies. In addition, the ATS has also approved an additional Assembly Project, regarding the clinical management of obesity hypoventilation syndrome, led by Dr. Dr. Babak Mokhlesi and is timely given recent clinical trials in this area over the last few years. If you have thoughts on a potential Assembly project, start thinking now and consider contacting myself, Dr. Patel or Dr. Dr. Mehra for input. The deadline is typically the end of July.
- Mentorship Program** - Training and mentorship continues to be an area the Assembly continues to strive to provide trainees and junior members. For the 3rd consecutive year with the oversight by Drs. Eric Davis and Pedro Genta, the Assembly continues to participate in the mentorship program.



Editor: Susheel P. Patil, MD, PhD

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MESSAGE FROM THE ASSEMBLY CHAIR (Continued)

The goals of the program are to support junior faculty and trainees through individualized mentorship, increased Assembly participation, and improved collaboration. Ultimately, this serves to strengthen the future of our Assembly by engaging our newest members. Please visit the [ATS mentorship page](#) for more details.

4. **Sleep Fragments:** The Web committee continues an outstanding job under leadership of Website Directors, Drs. Shirin Shafazand and Bradley Edwards. The Sleep Fragments are now fully integrated into the [Annals of the ATS](#) and are an excellent opportunity for trainees to have a publication and fulfill the educational requirements of their training program. I want to thank Brad and Shirin for their outstanding leadership of the Web Committee as they head into their final year of service.
 5. **The SRN Journal Club:** Drs. Jonathan Jun and Neomi Shah continue to do a fantastic job in continuing this highly popular educational activity. The Journal Clubs are truly informational with additional insights provided beyond what is in a paper due to author participation. The schedule for coming events and recordings of [past Journal Clubs](#) are available on our website. Again, this is an excellent experience for a fellow to pursue. Hats off to Jonathan and Neomi for their excellent facilitation during these sessions. Please also join me in congratulating Dr. Jun as he transitions to become our Web Co-Director for next year,
 6. **Patient education materials:** These materials continue to be developed for patients with sleep disorders. With support from ATS staff, new pamphlets have been developed in the past year on emergency disaster preparedness and healthy sleep. These can be found at <http://www.thoracic.org/patients/patient-resources/topic-specific/sleep-problems.php>. If you have an interest in developing additional materials, please let one of our Web Co-Directors know of your interest.
 7. **Funding opportunities and Abstract Awards:** The Assembly regularly posts grant funding opportunity information on the Website. ATS presentations by junior members are supported by scholarships. You can see the list of abstract scholarship award recipients at <http://www.thoracic.org/assemblies/srn/awards/index.php>.
 8. **Engaging New Members and Trainees and the SRN Reception:** We have several mechanisms actively engaging trainees and junior members in the vibrant Assembly environment, especially via participation in our Web Committee. I encourage all trainees and junior members to attend our business meeting followed by the Assembly Reception during the ATS International Conference in Washington D.C. on Monday, May 22nd, 2017. It's a great way to meet colleagues and make new acquaintances. The 2016 James B. Skatrud New Investigator Award recipient (<http://www.thoracic.org/members/assemblies/assemblies/srn/awards/james-b-skatrud-new-investigator-award.php>) will be present at the business meeting and will be followed by an lecture by Dr. Thomas Balkin, Senior Scientist in the Department of Behavioral Biology, Walter Reed Army Institute, Silver Spring, MD and former Chairman of the National Sleep Foundation, entitled *The Insidiousness of Sleepiness* and will present his experiences fatigue mitigation in the military.
- You can register for the Assembly Reception while registering for the International Conference. Assembly Leadership will be available to answer your questions in person before the business meeting.
9. **Dental Sleep Medicine Interest Group:** Dr. James Metz, DDS continues to lead our Dental Sleep Medicine Interest Group, which will be in its 3rd year. Sunday there will be an evening session for those interested in the application of oral appliances in the treatment of sleep apnea. Details are provided in Dr. Metz's summary in the newsletter. A Postgraduate course (Oral Appliance Therapy and Related Topics in Dental Sleep Medicine [Didactic Only], PG-10). The group has planned a 4-hour tour of DC, lunch, and a visit to the "Spy Museum" on Saturday. All members of SRN are welcome on tour (\$100pp/44-person limit). Please let your dental colleagues know about this meeting and try to bring him/her to the meeting!

10. **ATS Foundation:** The ATS Foundation has been critical in supporting many young investigators within the ATS. For every \$1 that is donated, the Foundation has calculated that awardees generate \$13 in future grant funding. This is a phenomenal return on investment. The Foundation has committed to awarding at least 1 sleep related application per year as sleep medicine is considered a pillar of the ATS. In 2016, ATS Foundation Unrestricted Grants were awarded to Dr. Brian Cade received an on, “Resolving Clinical Heterogeneity and Informative Traits of Sleep Apnea in Humans”, Dr. Andrew Varga for “Differentiating Intermittent Hypoxia and Sleep Fragmentation Effects of OSA on Memory Formation”, and Dr. Jonathan Jun for “Beta Blockade for Nocturnal Metabolic Dysfunction in Obstructive Sleep Apnea” Congratulations! If you want to contribute to continue support of ATS Foundation funded, cutting edge research consider attending the ATS Research Program Benefit in Denver. (<http://foundation.thoracic.org/Benefit/Benefit-Ticket-Levels-2015.php>). In addition, please support the Foundation by making a contribution at <http://www.thoracic.org/professionals/research/index.php>. If you are a young investigator, consider applying for ATS Foundation Unrestricted Sleep Research Grant or an Early Career Investigator Award, which have a very high success rate compared to the NIH and other foundation funding opportunities.
11. **Social Media:** The SRN Assembly is active on Facebook at <https://www.facebook.com/ATSSRN> and Twitter <https://twitter.com/ATSSRN>. Many thanks to Dr. Omar Mesarwi for helping us start to add more content to our Facebook page. Don't forget to follow us at @ATSSRN or me at @spatilmd for news on the Assembly.

Finally, I have been honored to serve as the Assembly Chair from 2015-2017 and to represent our great Assembly on the Board of Directors. In Washington D.C., I will pass the baton to Dr. Sanjay Patel from the University of Pittsburgh Medical Center. I would like to express my gratitude to all members of our executive committee who do the lion's share of the work in organizing the wonderfully myriad activities that our Assembly is involved with. The executive committee and I would welcome any input from Assembly members. Feel free to contact me at spatil@jhmi.edu or Dr. Patel at patelsr2@upmc.edu with any questions. I hope to see all of you in Washington DC in May!

Sincerely Yours,

Susheel P. Patil, MD, PhD
Chair, Assembly on Sleep and Respiratory Neurobiology (SRN)

PROGRAM COMMITTEE REPORT

Robert L Owens, MD, Chair and Esra Tasali, MD , Chair-Elect

The 2017 Program is chockfull of content that should satisfy all research interests and backgrounds, from the basic sciences to impacts on society at large. Below is a narrative summary of the programmed content, both from our own Assembly as well as content relevant to our members programmed in conjunction with other assemblies such as Pediatrics – which programmed both a Major and a Mini Symposium on Sleep. In addition, please listen to the podcast (<http://www.thoracic.org/about/ats-podcasts/a-roadmap-to-sleep-programming-and-content-at-ats-2017.php>), where Dr. Shirin Shafazand, Web Co-Director, interviews, Dr. Robert Owens, the SRN Program Chair, about the SRN-related programming.

Please refer to the accompanying chart for the times for each of sessions. A quick glance at the schedule reveals that there is much content on WEDNESDAY – so PLEASE PLAN YOUR TIME at the International Conference accordingly.

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PROGRAM COMMITTEE REPORT (*Continued*)

Dr. Danny Eckert will honor Nick's memory and contributions to the field of sleep medicine research with a brief presentation at the start of the session.

Thank you to the members of the SRN program committee, who proposed the bulk of ideas submitted for major symposia, provided critical feedback, and reviewed abstracts submitted to the Assembly. Thank you also in advance to the Chairs, Moderators and Facilitators for each of the sessions.

Major Symposia

The location of the 2017 International Conference in Washington DC has greatly shaped the SRN program. This is especially evident in the Major Symposia, which we believe reflect the greatest issues affecting the field today and in the near future. Of note, all 3 of our SRN Major Symposia have been designated eligible for maintenance of certification (MOC) points.

State of the Sleep Union (Organized by Rakesh Bhattacharjee, UCSD): leaders in the field address important clinical questions about the management of Obstructive Sleep Apnea (OSA) that are impacted by policies and payor regulations. In addition to the potential societal repercussions of OSA (J. Kimoff), presentations will include current diagnostic challenges such as selecting the correct definition of hypopnea (N. Punjabi), appropriateness of inpatient testing (Dr. B Prasad) and finally the utility of home sleep testing in children (C. Marcus). The symposium will then shift gears to address whether therapy should be enforced given the hazards of untreated OSA (A. Pack) and whether there is agreement on what defines PAP Adherence (T. Weaver). The audience will leave this symposium questioning whether current regulations make physiological sense opening the door for imminent policy change.

Sleep and Public Health (Michael Grandner, U of Arizona): Is sleep a public health problem or opportunity? How does new technology (e.g. Smart Phones) impact sleep? What should be the role of the field in promoting public health policies? This session focuses on some of the most pressing public health concerns regarding sleep health. Major public health issues such as sleep deprivation epidemic in the modern society (M. Grandner), implications of insufficient sleep for cardio metabolic health (J. Chaput), sleep as a health disparity (N. Williams) as well as school start times will be discussed (ML Chen).

Positive pressure + negative adherence = High Priority (Jessie Bakker, Harvard): Recent large clinical trials have failed to show cardiovascular benefit to CPAP, in part due to inadequate adherence to therapy. How can this practice gap be overcome? The session will begin with Sam Kuna discussing the role that sub-optimal adherence has played in some of the most important clinical trials of CPAP, and considering how different the scientific landscape would be if adherence had been optimized. Sai Parthasarathy will present data on adherence disparities and ideas for closing the gap. Promising strategies to maximize adherence will be presented by Jessie Bakker and Carl Stepnowsky, while Dennis Hwang and Richard Schwab will look to the future by considering how telemedicine and 'big data' can be harnessed to reveal patterns and trends in long-term adherence to therapy.

This session will begin with a remembrance of Nick Antic by his close colleague and friend Danny Eckert.

Other jointly developed symposia with SRN content include:

Obesity and Chronic Respiratory Diseases in Children: Recent Advances and Clinical Implications (Indira Narang, Toronto).

Implementation Science featuring Terri Weaver using sleep and device therapy as a model.

Wearables and Technology on Sunday Morning will feature Max Hirshkowitz (Baylor) discussing the impact of such technology on Sleep Medicine.

Finally, on Wednesday morning **Gregg J. Semenza MD PhD** from Johns Hopkins will give a keynote address entitled “*Hypoxia-Inducible Factors in Physiology and Medicine.*”

Mini Symposium

The 3 Mini Symposia reflect some of the best science from our Assembly, chosen from more than 250 abstracts.

Big Data comes to Sleep Medicine (chairs Sai Parthasarathy, Susan Redline, Alan Pack) highlights exciting new data from large research and clinical databases. Imagine the questions that could be asked, and answered from thousands of studies/patients.

Coronary artery disease and OSA: Are we SAVE-ing Lives? (Jean Louis Pepin, Garun Hamilton, Neomi Shah) discuss all aspects of cardiovascular disease and sleep apnea. Featuring key note speaker Christopher O'Connor, MD who recently led the CAT-HF study.

Best from the Lab in SDB: Mechanism and Beyond (Esra Tasali, Chris O'Donnell) This session will discuss novel experimental data from animal and human studies on cardiovascular and metabolic outcomes. Chris O'Donnell will introduce and frame the abstracts and the state of basic science in Sleep Medicine.

Another Mini-Symposium programmed by Pediatrics will be “**Can children sleep and breathe at the right time?**”

Poster Discussion Sessions

Last year the Assembly experimented with a different format to these discussion sessions, which was well received. Each author presented a provocative and brief 1-slide, 1-2 minute snapshot introduction of their research. Essentially, this brief presentation answered the questions “Why is this work important?” or “Why should this work be funded?” This year, each of the 4 SRN Poster Discussion sessions will follow some version of this format (exact details left to the moderators).

Updates in Control of Breathing, Cheyne Stokes, and ASV (moderators Frank Jacono, Nikolaus Netzer, Susmita Chowdhuri) will present the best abstracts which mix both basic, translational and clinical science.

OSA Overlaps – Asthma, COPD, Obesity Hypoventilation Syndrome and Lung Cancer (Mihaela Teodorescu, Babak Mohklesi) is a more clinically oriented session focused on the various “overlap” syndromes. Does treating OSA help other chronic lung disease? Is PAP or NIV the best approach?

New Technology in Sleep: Diagnostics and Therapeutics (Azadeh Yadollahi, Scott Sands, Richard Schwab) is full of some of the most interesting translational approaches from throughout the assembly. Could you diagnose OSA using a patient's defibrillator? Could PETMRI scanning predict your patient's risk of coronary artery disease?

New Insights into OSA Pathogenesis (Mary Morrell, Danny Eckert, Alan Schwartz) presents the latest work on this area from labs around the world, in animal and human models.

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PROGRAM COMMITTEE REPORT (*Continued*)

Sunrise Seminars

These 1 hour breakfast seminars are generally presented by more junior faculty in a specific niche area, and designed to both highlight the speakers, their work, as well as provide experience with presenting scientific material. These seminars require pre-registration and are associated with a modest cost. Attendance at one of these sessions is a great way to support those new to our field.

How can we improve clinical identification of driving risk in OSA patients? By Andrew Vakulin PhD (Adelaide Institute for Sleep Health and Flinders University)

Insomnia in Sleep Apnea patients: When and how should you treat? By Michael Grandner PhD (University of Arizona)

The Interface Matters: Comparing Different Masks for OSA Treatment By Pedro Genta MD (University of Sao Paulo)

Meet the Professor Series

These 1 hour lunch seminars are a great opportunity to meet senior leaders in the field, understand their work and how they progressed through the field. Pre-registration is required, and space is very limited – sign up soon!

Lisa Wolfe MD (Northwestern University) “Non-invasive ventilation in Neuromuscular Disease: Beyond the Basics”

Ronald Grunstein MD PhD (University of Sydney) “Multiple Bed Partners and Other Successful Collaborations”

Sunil Sharma MD (Albert Einstein) “Building a Hospital Sleep Medicine Program”

Education

There are a variety of opportunities for continued learning at the International Conference this year.

The **Post graduate course “Oral Appliance Therapy and Related Topics in Dental Sleep Medicine”** (James Metz, DDS) is intended for all sleep providers to discuss the science and practicalities of the use of oral appliances for the treatment of sleep apnea. Pre-registration is required for this course, and space is limited!

Susan Redline (Harvard) will present the **Clinical Year in Review on Sleep Disordered Breathing** which is designed to survey the most important findings in the last year that impact clinical care.

This year’s **Core Curriculum** topics are Insomnia and Obstructive Sleep Apnea – both Wednesday.

See you in DC!

ATS 2017 - WASHINGTON, DC

SESSIONS SPONSORED BY THE ASSEMBLY ON SLEEP & RESPIRATORY NEUROBIOLOGY

Session Code	Session Title	Session Time	
Postgraduate Courses			
Friday, May 19, 2017			
PG10	ORAL APPLIANCE THERAPY AND RELATED TOPICS IN DENTAL SLEEP MEDICINE	8:00 AM	4:00 PM
Scientific Symposia			
Sunday, May 21, 2017			
A86	THE SLEEP STATE OF THE UNION: TAKING OSA MANAGEMENT TO WASHINGTON	2:15 PM	4:15 PM
Tuesday, May 23, 2017			
C10	POSITIVE PRESSURE + NEGATIVE ADHERENCE = HIGH PRIORITY FOR SLEEP MEDICINE	9:15 AM	11:15 AM
Wednesday, May 24, 2017			
D6	SLEEP AND HEALTH: A PUBLIC HEALTH CALL TO ACTION	9:15 AM	11:15 AM
Jointly-Developed Symposia			
Monday, May 22, 2017			
B91	IMPLEMENTATION SCIENCE IN PULMONARY, CRITICAL CARE, SLEEP AND PEDI-ATRIC MEDICINE: HOW SOON IS NOW?	2:15 PM	4:15 PM
Sunrise Seminars			
Monday, May 22, 2017			
SS117	HOW CAN WE IMPROVE CLINICAL IDENTIFICATION OF DRIVING RISK IN OSA PATIENTS?	7:00 AM	8:00 AM
Tuesday, May 23, 2017			
SS217	INSOMNIA IN SLEEP APNEA PATIENTS: WHEN AND HOW SHOULD YOU TREAT?	7:00 AM	8:00 AM
Wednesday, May 24, 2017			
SS317	THE INTERFACE MATTERS: COMPARING DIFFERENT MASKS FOR OBSTRUCTIVE SLEEP APNEA TREATMENT	7:00 AM	8:00 AM
Meet The Professor Seminars			
Sunday, May 21, 2017			
MP416	MULTIPLE BED PARTNERS AND OTHER SUCCESSFUL COLLABORATIONS	12:15 PM	1:15 PM
Monday, May 22, 2017			
MP514	HOSPITAL SLEEP MEDICINE: THE ELEPHANT IN THE ROOM	12:15 PM	1:15 PM
Tuesday, May 23, 2017			
MP614	NONINVASIVE VENTILATION IN NEUROMUSCULAR DISEASE: BEYOND THE BASICS	12:15 PM	1:15 PM
Mini-Symposia			
Monday, May 22, 2017			
B20	BIG DATA COMES TO SLEEP MEDICINE	9:15 AM	11:15 AM

ATS 2017 - WASHINGTON, DC

SESSIONS SPONSORED BY THE ASSEMBLY ON SLEEP & RESPIRATORY NEUROBIOLOGY

Session Code	Session Title	Session Time	
Mini-Symposia			
Monday, May 22, 2017			
B98	OSA AND CORONARY ARTERY DISEASE: ARE WE SAVE-ING LIVES?	2:15 PM	4:15 PM
Wednesday, May 24, 2017			
D99	BEST FROM THE LAB IN SDB: MECHANISMS AND BEYOND	1:30 PM	3:30 PM
RAPID: Rapid Abstract Poster Discussion Sessions			
Sunday, May 21, 2017			
A29	UPDATES IN CONTROL OF BREATHING	9:15 AM	11:15 AM
Tuesday, May 23, 2017			
C109	NEW TECHNOLOGY IN SLEEP: DIAGNOSTICS AND THERAPEUTICS	2:15 PM	4:15 PM
C110	OSA OVERLAPS: ASTHMA, COPD, OBESITY HYPOVENTILATION SYNDROME, AND LUNG CANCER	2:15 PM	4:15 PM
Wednesday, May 24, 2017			
D30	NEW INSIGHTS INTO OBSTRUCTIVE SLEEP APNEA PATHOGENESIS	9:15 AM	11:15 AM
Thematic Poster Sessions			
Sunday, May 21, 2017			
A80-A	NOVEL THERAPIES FOR OSA	9:15 AM	4:15 PM
A80-B	CASE REPORTS IN SLEEP MEDICINE	9:15 AM	4:15 PM
A80-C	NOVEL DIAGNOSTIC APPROACHES TO SDB	9:15 AM	4:15 PM
Monday, May 22, 2017			
B80-G	CARDIOVASCULAR DISEASE AND SDB	9:15 AM	4:15 PM
B80-H	METABOLIC CONSEQUENCES OF SDB	9:15 AM	4:15 PM
B80-I	NEUROCOGNITIVE FUNCTION AND SLEEP DISORDERED BREATHING	9:15 AM	4:15 PM
Tuesday, May 23, 2017			
C80-D	SLEEP AND HEALTH POLICY	9:15 AM	4:15 PM
C80-E	ADHERENCE TO OSA THERAPY: THE ACHILLES HEEL?	9:15 AM	4:15 PM
C80-F	MANAGEMENT OF SLEEP DISORDERED BREATHING	9:15 AM	4:15 PM

ADDITIONAL SESSIONS OF INTEREST FOR SRN MEMBERS

Session Code	Session Title	Session Time	
Postgraduate Courses			
Friday, May 19, 2017			
PG3	LOOK BEFORE YOU LEAP: SKILLS FOR CRITICAL EVALUATION OF CLINICAL RESEARCH	8:00 AM	4:00 PM
PG7	PEDIATRIC RESPIRATORY PHYSIOLOGY: WHEN IT'S NORMAL AND WHEN IT'S NOT	8:00 AM	4:00 PM
Scientific Symposium			
Sunday, May 21, 2017			
A9	IN MEMORY OF PETER T. MACKLEM: EMERGENT PHENOMENA AND HETEROGENEITY IN RESPIRATORY DISEASE	9:15 AM	11:15 AM
Monday, May 22, 2017			
B2	THE LONG-TERM OXYGEN TREATMENT TRIAL (LOTT): IMPLICATIONS FOR COPD PATIENT CARE	9:15 AM	11:15 AM
Tuesday, May 23, 2017			
C83	PEDIATRIC CHEST ROUNDS	2:15 PM	4:15 PM
C86	CLINICAL ADVANCES IN RESPIRATORY HEALTH: WHAT TO TELL YOUR PATIENTS RIGHT NOW	2:15 PM	4:15 PM
Wednesday, May 24, 2017			
D82	PUTTING THE 2017 GOLD COPD RECOMMENDATIONS INTO CLINICAL PRACTICE	1:30 PM	3:30 PM
D86	INTERACTIONS BETWEEN FAT AND FLOW	1:30 PM	3:30 PM
D87	OBESITY AND CHRONIC RESPIRATORY DISEASES IN CHILDREN: RECENT ADVANCES AND CLINICAL IMPLICATIONS	1:30 PM	3:30 PM
Workshop Sessions			
Tuesday, May 23, 2017			
WS6	CAREER DEVELOPMENT WORKSHOP: HOW TO START YOUR INDEPENDENT RESEARCH LABORATORY	11:45 AM	1:15 PM

Highlighted tracks of the SRN Program for 2017 ATS

Day of Meeting	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday
Early Morning				Sunrise Seminar: <i>Andrew Vakulin, PhD</i> How can we improve clinical identification of driving risk in OSA patients	Sunrise Seminar: <i>Michael Grandner, PhD</i> Insomnia in Sleep Apnea patients: when and how should you treat?	Sunrise Seminar: <i>Pedro Genta, MD</i> The Interface Matters: Comparing Different masks for OSA treatment
Keynotes						Gregg J. Semenza "Hypoxia-Inducible Factors in Physiology and Medicine"
Morning	Post Graduate Course: Oral appliance therapy and related topics in Dental Sleep Medicine. <i>James Metz, organizer.</i>		Committee Sponsored Symposium: Wearables and Technology. <i>Max Hirshkowitz Baylor</i> Clinical Year in Review: Sleep Disordered Breathing (<i>Susan Redline</i>) PD Updates in COB, Cheyne Stokes and ASV	Mini Symposium: Big Data comes to Sleep Medicine	Major Symposium: Positive Pressure + Negative Adherence = High Priority. <i>Jessie Bakker</i>	Major Symposium: Sleep and Public Health. <i>Organizers Michael Grandner and Esra Tasali.</i> Mini Symposium (Pediatrics): Can children sleep and breathe at the right time? PD OSA Pathogenesis Adult Clinical Core Curriculum: Insomnia
Lunch & Posters			Meet the Professor: <i>Lisa Wolfe, MD</i> Noninvasive Ventilation in Neuromuscular Disease: Beyond the Basics	Meet the Professor: <i>Ron Grunstein, MBBS, MD, PhD</i> Multiple Bed Partners and Other Successful Collaborations	Meet the Professor: <i>Sunil Sharma</i> Hospital Sleep Medicine	
Afternoon			Major Symposium: State of the Sleep Union. <i>Rakesh Bhattacharjee</i>	Jointly Developed Symposium: Implementation Science. <i>Terri Weaver, speaker.</i> Mini Symposium: CAD and OSA: Are we SAVE-ing lives?	PD OSA "Overlaps" PD New Tech in Dx/Rx of Sleep Disordered Breathing	Major Symposium (Pediatrics): Obesity and Chronic Respiratory Diseases in Children: Recent Advances and Clinical Implications. <i>Organizers/Speakers: Indra Narang and Hasnaa Jalou</i> Mini Symposium: Best from the Lab Adult Clinical Core Curriculum: Obstructive

PLANNING COMMITTEE REPORT

Reena Mehra, MD, Chair

The Planning Committee under leadership of Chair, Reena Mehra, has provided review and oversight of SRN project applications, works closely with the Assembly Programs team and Dr. Patil to coordinate details for the 2017 SRN Assembly reception and provides oversight of the review of the James B. Skatrud New Investigator award applications.

1. Project Applications: A new Clinical Practice Guideline entitled *Obesity Hypoventilation Syndrome: Evidence-Based Guidelines for Evaluation and Management* spearheaded by Dr. Babak Mokhlesi has been favorably reviewed and approved by the Program Review Subcommittee. Renewal applications for which the SRN is the primary assembly which have been approved include *Research Priorities in Perioperative Obstructive Sleep Apnea* led by Dr. Najib Ayas, *Non-Invasive Identification of Inspiratory Flow Limitation in Sleep Studies* led by Dr. Susmita Pamidi and *The Role of Weight Management in the Treatment of Adult Obstructive Sleep Apnea* led by Dr. David Hudgel. SRN serves as the secondary assembly sponsor for *ATS Patient Reported Outcomes Measures Resource* led by Dr. Michelle Eakin (Behavioral Science and Health Services Research serves as the primary assembly for this project). For those interested in submitting a project application via SRN, do not hesitate to contact Susheel or Patil or Reena Mehra as soon as possible as it is best to start the process early.

2. SRN Reception: The reception will be held on May 22, 2017 with a presentation by Thomas J. Balkin, Ph.D., Senior Scientist in the Department of Behavioral Biology, Walter Reed Army Institute, Silver Spring, MD and former Chairman of the National Sleep Foundation, entitled *The Insidiousness of Sleepiness*.
3. James B. Skatrud New Investigator award applications: The request for applications remains open with deadline of March 17, 2017. Details can be found per the following link: <http://www.thoracic.org/members/assemblies/assemblies/srn/awards/james-b-skatrud-new-investigator-award.php>.

DENTAL SLEEP MEDICINE INTEREST GROUP

James E. Metz, DDS, Chair

The goal of the Interest Group is to bring together dentists with a strong interest in dental sleep medicine and align them with the SRN, so that they may discuss common interests that will benefit patients worldwide. The Group's objectives are as follows: To further identify research priorities and outcome studies in the area of oral appliances and collaborate with the SRN in the development of joint statements that will benefit the sleep community.

This year there will be several speakers with highlights from the Postgraduate Course "Oral Appliance Therapy and Related Topics in Dental Sleep Medicine".

Location: Renaissance Washington, DC Downtown Hotel - Congressional Hall B (Ballroom Level)

Date: Sunday, May 21, 2017 Time: 6:30 - 8:30 PM

Speakers include:

- David Gozal, MD, President - ATS
- Atul Malhotra, MD, Past President ATS, "Predicting the response to oral appliance therapy."
- Faculty of the PG-10 course will present the "Highlights".

If the dentists signs up for PG 10, they then get the rest of the conference for \$150.00 with the promo code "dentist". The Dental Interest Group asks that all members of the SRN help the group grow by inviting Dentists to the meeting.

WEB COMMITTEE REPORT

Shirin Shafazand, MD, MS, FAASM and Bradley Edwards, PhD , Co-Chairs

The ATS SRN Web Committee has continued its excellent tradition of providing an online portal of communication and information exchange amongst all those interested in sleep and respiratory neurobiology. Our mission for the SRN Assembly website is to promote sleep education for professionals and patients, support academic pursuits of research and publication, and to create a network by which members of our assembly can foster collaborations to further the field of Sleep Medicine.

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WEB COMMITTEE REPORT (*Continued*)

Patient Education: Our patient education pamphlets <http://www.thoracic.org/members/assemblies/assemblies/srn/patient-educational-materials/> continue to be updated, and are an excellent resource for both patients and clinicians. Some of these pamphlets are also available in Spanish. We are always looking for novel ideas for education pamphlets for our clinical and research patient populations and welcome your contributions.

Clinician Education: Assembly members have created a problem based learning (PBL) sleep curriculum for pulmonary fellows and all those interested in professional sleep education. The modules are available at <http://www.thoracic.org/professionals/clinical-resources/sleep/sleep-modules/>.

Sleep questionnaires: Our ongoing project is to update the website for sleep-related questionnaires, available at <http://www.thoracic.org/members/assemblies/assemblies/srn/questionnaires/>. This repository of questionnaires is an excellent resource for clinicians and researchers alike.

Journal Club: Every other month, we host an online journal club that highlights a recent, relevant article in sleep medicine. The sessions are archived on our website, <http://www.thoracic.org/members/assemblies/assemblies/srn/journal-club/> for those who cannot attend the live webcast. Journal Club is well-received by members and trainees and is an excellent opportunity for junior members to present articles of interest and engage in discussions with more senior members. Many other Assemblies have developed their own Journal Club emulating what had been started in the SRN Assembly. We welcome ideas and participants for future Journal Club events from our Assembly members.

Funding: Given the challenging funding environment, our committee members work hard to maintain an updated list of funding opportunities relevant to sleep research at <http://www.thoracic.org/members/assemblies/assemblies/srn/funding-opportunities/>.

Sleep Fragments: The Sleep Fragments series continues to be a featured section of the Annals of the American Thoracic Society publication. This is a great opportunity for trainees and junior faculty to publish cases that are unique and educational to our sleep community. Submissions and peer-review are now conducted by the journal editors (at http://www.atsjournals.org/page/AnnalsATS/instructions_for_authors).

Accepted cases are published both in the Annals of ATS journal as well as on the SRN Assembly website <http://www.thoracic.org/professionals/clinical-resources/sleep/sleep-fragments/>. These cases may be used on rounds or for board review purposes.

In addition, sleep fragments not accepted for publication in AnnalsATS are considered for online publication on the SRN Assembly website. Every year the best sleep fragment is chosen, and the junior author receives a recognition award at the ATS SRN meeting.

Podcasts: Our website features a series of 10-20 minute podcasts that engage in friendly discussions with relevant names, on topical events and discoveries in the world of sleep medicine. Listen to us on the go! Podcasts are located at <http://www.thoracic.org/members/assemblies/assemblies/srn/podcasts.php>

Social Media: The SRN Assembly is active on Facebook at <https://www.facebook.com/ATSSleep/> Please follow us, on Facebook, where interesting articles and happenings in the world of sleep are frequently posted.

We believe that the SRN web committee is a wonderful way to get more involved in our assembly. Please join, submit a sleep fragment, and/or suggest a topic for Journal Club, pamphlets, and podcasts. We welcome all those who want to share their ideas and talents – please join us at the ATS SRN Website Committee meetings at the ATS conference in May 2017 (meeting dates/times to be posted on our website) to get more involved or email us. See you in Washington, DC.

EARLY CAREER PROFESSIONAL WORKING GROUP REPORT

Eric Davis, MD and Pedro Genta, MD PhD

The **SRN Mentoring Program** is an opportunity for all junior SRN members (mentees) attending the annual ATS International Conference to meet with an assigned senior SRN member (mentor) and join in the SRN Assembly reception during the meeting.

Through this program, each prospective mentee will be paired up with an individual mentor based on the answers provided in a brief survey about their background, career goals, and objectives.

The overarching goals of the program are to:

- Support junior faculty and trainees through individualized mentorship
- Increase junior faculty and trainee participation in the SRN Assembly
- Improve collaboration between members
- Strengthen the future of the SRN Assembly

If you would like to participate in the SRN Mentoring Program for the 2018 ATS International Conference, either as a mentee or a mentor, please go to the [ATS Mentoring Program website](#) where you can access the online survey through the ATS. This survey will be available February 2018.

We thank the volunteer mentors in advance for their participation in this exciting program and their investment of time and expertise in the SRN membership and future of our Assembly. The success of this program will rely upon the generosity of SRN members who are willing to share their insights and experiences with others.

For more information on the Mentoring Program or to provide feedback, please contact Melinda Garcia at mgarcia@thoracic.org or Eric Davis at emd.davis@gmail.com

Sincerely,

Eric Davis, MD and Pedro Genta, MD PhD
SRN Early Career Professional Working Group

***Assembly on
Sleep and Respiratory Neurobiology
Membership Meeting***

***Monday, May 22nd
5:00pm-7:00pm
Grand Hyatt Washington DC***

***Constitution Ballroom B
Constitution Level 3B***

***Assembly on
Sleep and Respiratory Neurobiology
Reception***

***Monday, May 22nd
7:00pm-10:00pm
Grand Hyatt Washington DC***

***Arlington
Constitution Level 3B***

***Interest Group on
Dental Sleep Medicine Meeting***

***Sunday, May 21st
6:30pm-8:30pm
Renaissance Washington, DC Downtown***

***Congressional Hall B
Ballroom Level***

Be sure to follow us at **@ATS_Assemblies** for news on webinars, deadlines, and other things you might have missed in your inbox!



Meet Your Mentor HERE!



Struggling to find a quiet location to meet with your mentor? Look no further! This year at the 2017 ATS International Conference in Washington, DC, the Assembly Mentoring Programs is offering a meeting spot exclusively for mentors and mentee to meet.

The Assembly Mentoring Programs' Meeting spot will be located in the Renaissance, Washington DC Hotel in the Carnegie room on the (Ballroom Level). The room will be available from:

Friday May 19th to Tuesday May 23rd between 7AM. to 7PM

Light snacks and beverages will be offered throughout the day. Laptops and printers will be made available for use and don't forget to pick up your Assembly Mentoring Program Ribbon and Pin!

We hope you can join us at the Assembly Mentoring Program's Meeting spot!

Interested in joining a mentoring program? Visit our Assemblies homepage and click on ATS Mentoring Program to learn more or contact Melinda Garcia at mgarcia@thoracic.org

**Submit an Assembly/Committee Project Application
for funding in FY2018!**

We are happy to announce that ATS will once again accept NEW Assembly/Committee Projects for FY2018. All interested applicants should begin developing their ideas for Assembly/Committee Project Applications. Applications will be available on the ATS website at www.thoracic.org.

Please consider submitting an application for an Assembly/Committee project. If you have a suggestion for a project application and you need assistance, please contact your Assembly Planning Committee Chair Reena Mehra, MD at reena.mehra@case.edu.

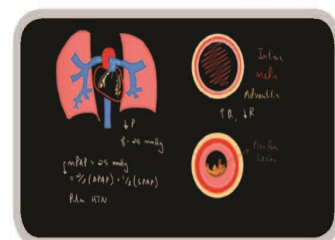
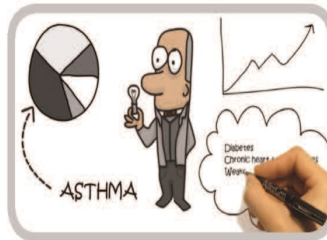
For questions regarding submissions please contact Miriam Rodriguez at tel: 212/315-8639 or email: mrodriguez@thoracic.org.

Best of ATS Video Lecture Series (BAVLS)

Do you have an amazing teaching video that you want to share with the world?
Then consider submitting to the Best of ATS Video Lecture Series (BAVLS).

For more information, please visit

<http://www.thoracic.org/professionals/clinical-resources/video-lecture-series/>



PROGRAMS AND SPECIAL EVENTS FOR EARLY CAREER PROFESSIONALS

Networking Exchange For Early Career Professionals

Saturday, May 20, 2017; 5:30-6:30 p.m.

Marriott Marquis • Washington D.C. University of DC/Catholic University (Level M1)

Free to all conference attendees

Attend a Workshop in the Center for Career (CCD)

Sunday, May 21 –Tuesday, May 23, 2017; 7:00 a.m. – 5:00 p.m.

Walter E. Washington Convention Center Hall D, (Middle Building, Level 2)

VISIT THE CCD TO PICK UP A ROAD MAP TODAY!



Washington, DC
May 19-May 24
conference.thoracic.org

ANNOUNCING ATS FOUNDATION RESEARCH PROGRAM 2017-2018 GRANT CYCLE

The Research Program is excited to announce that it is now accepting letters of intent! In 2017, the Research Program has increased the number of available Unrestricted Grants for early career investigators. In addition to 15 Unrestricted Grants, the portfolio offers grants with Alpha-1 Foundation, American Lung Association of the Mountain Pacific, Hermansky-Pudlak Syndrome Network, ResMed, PCD Foundation, Pulmonary Hypertension Association, and the ATS Foundation Tobacco-Dependence Research Fund, and 4 MECOR Awards. The deadline for letters of intent is June 6, 2017.

For more information on the current opportunities, please visit thoracic.org/go/researchgrants.

ATS Membership Matters



Tell us!

As an ATS Assembly member your experience is central to inspiring others to join or renew their membership. **Tell us why ATS membership matters to you! What is its value to you?**

Send a sentence or two, or even a punchy quote, to MemberValue@Thoracic.org. We appreciate hearing from you within three weeks of the date of this newsletter. Be sure to provide your name, the name of your institution, city and state/country. We may use your quote in a future membership promotion!

Did you know that as an ATS member you:

- Receive a discount of **20%** (average) on education products at the ATS Store?
- Benefit from **FREE** ABIM and ABP MOC self-assessment products?
- Have access to **NEW member benefits** that include:
 - Significant discounts on Springer respiratory books (print copies), and FREE online access to this book series,
 - Copies of our new ATS pocket guidelines.

Save \$1,200 – or more – per year on ATS products and services over nonmember rates.

See why [members love the ATS!](#)

Assembly Members: Help Us to Help You!

Have you:

- ◇ Moved?
- ◇ Changed your title?
- ◇ Added a new specialty, credential or other information?
- ◇ Or perhaps we just do not have a complete profile for you!

Please take a minute to update your contact information, assembly affiliations, and demographic profile today. And now you can also upload your PHOTO to your member profile!

Log in: <https://www.thoracic.org/login/ats-member-login.php>

By keeping your profile current, you help us provide programs and services that are most targeted to you.

ATS 2017 Exhibitors Doing Fundraisers for ATS Foundation

Actelion Pharmaceuticals US, Inc. in Booth 525

Actelion Pharmaceuticals, Inc. will donate \$25 for each attendee who takes part in their "Join the Conversation" digital graffiti activity. They have pledged a maximum donation of \$25,000.

AstraZeneca in Booth 637

AstraZeneca will donate \$5 for each attendee who completes their activity. They have pledged a maximum donation of \$7,500.

Vitalograph, Inc. in Booth 1630

Vitalograph, Inc. will donate \$1 for each attendee who completes their respiratory quiz. They have pledged a maximum donation of \$100



ATS BEAR Cage

(Building Education to Advance Research)

Sunday, May 21, 2017

2pm – 4pm

Center for Career Development

Walter E. Washington Convention Center, Hall D, (Middle Building, Level 2)

Hosted by the ATS Drug Device Discovery and Development (DDDD) Committee, the 3rd Annual BEAR Cage (Building Education to Advance Research) competition encouraged early career investigators to submit an innovative clinical or translational research proposal for the opportunity to participate in the live event at ATS 2017. Join us to see the top three finalists competitively "pitch" their proposals to a panel of translational science experts representing academia, industry, and governmental sectors. Come support and cheer on the finalists as they compete for the \$5,000 grand prize! All are encouraged and welcome to attend. For more information, please contact DDDD@thoracic.org.

2017 BEAR Cage Finalists

Marcus Y. Chen, MD

National Heart, Lung, and
Blood Institute (NHLBI)

Chest CT at Chest X-ray Radiation Dose

Sanghyuk Shin, PhD

UCLA Fielding School of Public Health

Unmasking Resistance: Impact of Low-frequency Drug-Resistance on Molecular Diagnosis of Drug-Resistant Tuberculosis

Prema R. Menon, MD, PhD

University of Vermont Medical Center

Communicating with Mechanically Ventilated Patients

Cough

When air passes out through our voice box with force, a sound is made that we all recognize as a "cough." The act of coughing usually begins with a deep breath in, followed by air leaving the mouth with force. A cough is your body's way of preventing material from entering your breathing tubes (airways) and clearing mucus or foreign material from your airways. Cough is the most common complaint for which patients seek medical care.



A cough is not a disease, but can be a common symptom of different upper and lower respiratory tract diseases. Even if you do not have a lung disease, you may cough.

What causes a cough?

A cough can happen when something irritates your nerve endings, called cough receptors. These nerve endings are in many areas inside your body, from your head and neck area, to just above your nasal (bushy) hairline. Inhaling particles, vapors, smoke, fumes, dust, or cold air may irritate these receptors and

Can a cough spread infection?

Cough can be a way of spreading infection to others, influence the flu and tuberculosis (TB) are examples of infections that can be spread by coughing infected droplets into the air. While a cold virus (the common cold) can be passed on to others by coughing, cold viruses are much more likely to be spread to others by hand-to-nose contact. Hand-to-nose contact is when you shake hands with someone who has the infection or touch something that has the cold virus on it and then you touch your nose or eyes. To help reduce the spread of infection, you should:

- **Cover your mouth and nose with a tissue when coughing or sneezing.** You don't want to spread germs to others.
- **When a tissue is not available, cough or sneeze into your upper elbow or sleeve, not your hands.**
- **Dispose of used tissues into a waste basket.**
- **Avoid spitting as it can cause a mist that may infect others.**
- **Ask for and wear a facemask when entering a healthcare facility if you are coughing or have cold symptoms.**
- **Wash your hands often and for at least 30 seconds using soap and water.**

Is there anything special that I should know about my cough?
If you have a cough, keep track of how long you have been

that involves vomiting is called pertussis (whooping cough). Such a cough-vomit syndrome, according to the CDC, should alert one to the possibility of pertussis. For more information on whooping cough, see the A75 patient information series piece "Pertussis" at www.therapeutic.org/patient/.

Acute, Sub-acute and Chronic Cough

There are three time periods to use as you describe how long you have had your cough: *acute* (lasts less than 3 weeks), *subacute* (lasts 3 to 8 weeks) or *chronic* (lasts more than 8 weeks and does not let up).

- An acute cough is most often caused by the common cold. This cough usually starts to improve by the third to fifth day. Cough from the common cold usually is not a serious threat to health and usually does not last longer than six days. People with acute coughs may have a runny nose, a sore throat, runny eyes, chest clearing, and a hoarse or scratchy throat. They also may feel like they have mucus dripping down the back of their throat. Acute cough can also be due to irritating irritants such as pollen or strong fumes. Cough may be the first symptom of a more serious condition. Less commonly, an acute cough can be due to more serious conditions such as pneumonia or heart failure.
- A sub-acute cough most commonly happens after a respiratory infection (often from a virus). Other common causes for sub-acute cough include postnasal drip (mucus) and flare-ups of conditions such as asthma, chronic bronchitis, sinusitis or bronchitis. When a cough starts to get better but then worsens, you should see your healthcare provider.
- A chronic cough should be treated for many reasons. Often it is a symptom of a more serious condition, and it is a condition. Chronic cough can happen from upper-airway conditions such as inflammation (swelling) of the membranes inside the nose (rhinitis) and sinusitis (sinusitis) as a result of allergies or infections or from poorly controlled asthma.

Patient Education Materials Available at the 2017 International Conference

The ATS now maintains over 100 patient education handouts as part of its Patient Information Series. The Series includes a wide variety of pulmonary/critical care/sleep and public health topics including: Bronchoscopy, Pneumonia, Mechanical Ventilation, Oxygen Therapy, Asthma, COPD, PFTs, Sleep Testing, Lung Cancer, VCD, TB, Emergency/Disaster, and Palliative Care. All pieces are available in English and many available in other languages, such as Spanish and Portuguese.

In addition to the Patient Information Series, a new Lung Cancer Screening Decision Aid is now available for free on the ATS Website, with bulk copies available for purchase.

All are encouraged to use these free-access materials, which are published in the ARJCCM, posted on the ATS Website at www.thoracic.org/patients and can be provided upon request in alternative formats for EMR systems. Stop by the ATS Center in Washington, D.C. to view copies of these materials. Contact Judy Corn, ATS Staff, at jcorn@thoracic.org for additional information or to suggest new topics.

Official ATS Documents: Informational Opportunities at the 2017 ATS International Conference in Washington, D.C.

If you're developing or interested in developing an Official ATS Document (Statements, Clinical Practice Guidelines, Workshop Reports, or Technical Standards), please consider attending one or more of these opportunities while you are in Washington, D.C. at the ATS International Conference:

- Documents Development & Implementation Committee (DDIC) Workshop/Meeting: Friday, May 19th from 6-9 PM, Renaissance Washington Downtown, Meeting Room 8-9. This session is **required** for all Guideline Panel Chairs and Chairs of new non-guideline projects. The session is **recommended** for Chairs of ongoing non-guideline projects. Please RSVP to John Harmon at jharmon@thoracic.org if you have not already done so. Note: CPG Chairs are required to provide a brief verbal update at this session.
 - ⇒ 6-7 PM – Presentations by DDIC members about the Official Document types, methodological requirements for each, and other practical issues (e.g., conflict of interest management, review, and approval); a light dinner will be served.
 - ⇒ 7-9 PM – Current Guideline Chairs (or their designees) will give progress reports and then troubleshoot informally with DDIC members and ATS staff. New Guideline Chairs will have the opportunity to listen to these reports and learn about the “trials and tribulations” of guideline development from experienced peers.
- Ad Hoc meetings: Whether you are developing or want to develop an official ATS document, you can schedule an appointment with Dr. Kevin Wilson (ATS Documents Editor) or Dr. Jan Brozek (ATS Methodologist). To schedule a meeting, email Kevin Wilson at kwilson@thoracic.org or Jan Brozek at brozekj@mcmaster.ca.
- Documents Meeting Space: Meeting space will be available to document developers from Sunday-Wednesday; contact Kimberly Lawrence at klawrence@thoracic.org for additional details.
- Guideline Methodology Training Program Information Session: Monday, May 22nd from 7-8:30 PM, Renaissance Washington Downtown, Meeting Rooms 12-13-14. Anyone who is interested in learning more about this new training program is welcome to attend. A brief description of the program will be provided, followed by time for questions and answers. A light dinner will be served. RSVP to kwilson@thoracic.org is required. Space is limited.
- Meet the Professors: A Meet the Professors Session entitled “Official ATS Documents: How to Get Involved” is being hosted by Dr. Raed Dweik (Chair of the Documents Development and Implementation Committee) and Dr. Kevin Wilson (ATS Documents Editor) on Tuesday, May 23rd from 12:15 until 1:15 pm. Registration is available through the Conference Registration Website.

ATS Assembly Members Give Generously to the ATS Foundation

Thank you for participating in the [2016 ATS Assembly Challenge](#)!

The annual challenge taps into the grassroots community — and competitive spirit — of the ATS assemblies in support of the ATS Foundation. This was the closest Challenge yet!



Irina Petrache, MD, chair for the Assembly on Respiratory Cell & Molecular Biology, receives RCMB's Assembly Challenge award from Dean Schraufnagel, MD, ATS Foundation Chair

The results are: the Assembly on **Respiratory Cell and Molecular Biology** raised the most dollars with \$94,718; **Nursing** had the highest member participation with 20.49 percent; **Allergy Immunology & Inflammation** had the highest number of first-time givers in December with seven new donors.

Many members made gifts supporting the [Research Program](#) and other core programs in the final days of 2016. There was tremendous energy around the Challenge this year, with assembly chairs crafting special messages to their members. Most chairs sent two or more personal emails to their members during the Challenge.

Congratulations to the Respiratory Cell & Molecular Biology, Nursing, and Allergy Immunology & Inflammation assemblies! They will receive special recognition in ATS communications, at ATS 2017, and within their own assemblies.

The ATS Foundation would like to thank all ATS assemblies for their outreach and generosity during the Challenge. You provided a big boost to Foundation year-end giving campaigns—and a boost to our upcoming grant-making capacity for talented investigators. Thank you for your enthusiastic support!

Truly, your energy, creativity, and participation were outstanding. Thank you for everything you do for the ATS, the Foundation, young investigators, patients, and respiratory health worldwide.

To learn more about the ATS Foundation or to make a gift, visit foundation.thoracic.org.



Eileen G. Collins, PhD, chair for the Assembly on Nursing, receives Nursing's Assembly Challenge award from Dean Schraufnagel, MD, ATS Foundation Chair



Mitchell A. Olman, MD, chair for the Assembly on Allergy Immunology & Inflammation, receives All's Assembly Challenge award from Dean Schraufnagel, MD, ATS Foundation Chair