AHS 2018 Annual Scientific Meeting
Program Agenda

WEDNESDAY, JUNE 27, 2018

1:00 pm – 5:00 pm  Women’s Leadership Development Course
                      Moderator: Rashmi B. Halker, MD, FAHS

  1:00 pm - 1:50 pm  Sponsorship versus Mentorship: Tools for Advancing Your Career and
                      Helping Others Around You
                      Liz Travis

  1:50 pm – 2:00 pm  Q&A

  2:00 pm - 2:50 pm  Negotiation for Women… Tips for Contracts, Salaries and Anything Else
                      Sara Laschever

  2:50 pm – 3:00 pm  Q&A

  3:00 pm - 4:30 pm  Panel Discussion: My Career in Medicine and How I Make It Work
                      Moderator: Barb Hoese
                      Panelists: Sheena Aurora, Allison Brashear, Denise Chou, Kathleen Digre,
                      Judy Lane, Elizabeth Loder, Claudia Lucchinetti

  4:30 pm – 5:00 pm  Our Calling Cards: A Reflection on Goals and Values
                      Barb Hoese

THURSDAY, JUNE 28, 2018

8:00 am – 10:30 am  Pre-meeting Courses

  8:00 am – 10:30 am  Course I: Innovations and Lessons Learned from Current Behavioral
                      Headache Research
                      Presented by the Behavioral Issues Section and Methodology, Design and
                      Statistical Issues Sections

  8:00 am – 8:30 am  New Evidence in Medication Overuse Headache
                      Frank Andrasik, PhD

  8:30 am – 9:00 am  Clinical Trials in Pediatric Headache Medicine
                      Scott Powers, PhD
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 am – 10:00 am</td>
<td>Mindfulness for Migraine: Recent Clinical Trial Evidence</td>
<td>Elizabeth K. Seng, PhD</td>
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<td>10:00 am – 10:30 am</td>
<td>Discussion</td>
<td>Don Penzien, PhD</td>
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<td>8:00 am – 10:30 am</td>
<td><strong>Course II: Navigating Integrative Medicine Approaches with Patients Based on Evidence</strong></td>
<td>Presented by Complementary and Integrative Medicine Section</td>
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<td>8:00 am – 8:35 am</td>
<td>Case Presentation</td>
<td>Deena Kuruvilla, MD</td>
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<td>8:35 am – 9:25 am</td>
<td>Acupuncture</td>
<td>Adelene Jann, MD</td>
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<td>9:25 am – 10:10 am</td>
<td>Mindfulness and Meditation</td>
<td>Rebecca Erwin Wells, MD, MPH, FAHS</td>
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<td>10:10 am – 10:25 am</td>
<td>Conclusion</td>
<td>Deena Kuruvilla, MD</td>
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<td>8:00 am – 10:30 am</td>
<td><strong>Course III: A Practical Approach to Procedures in Headache Medicine: A Review of Current Evidence and Cases in Clinical Practice</strong></td>
<td>Presented by Procedures in Headache Medicine Section</td>
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<tr>
<td>8:00 am – 8:10 am</td>
<td>Introduction</td>
<td>Jessica Ailani, MD, FAHS</td>
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<td>8:10 am – 8:40 am</td>
<td>Anatomy and Mechanisms of Procedures</td>
<td>Carrie Beth Robertson, MD, FAHs</td>
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<td>8:40 am – 9:00 am</td>
<td>Evidence for Procedures</td>
<td>Matthew Robbins, MD, FAHS</td>
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<td>9:00 am – 9:30 am</td>
<td>Performing Procedures in the Clinic</td>
<td>Andrew Blumenfeld, MD</td>
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<td>9:30 am – 9:50 am</td>
<td>Procedures in Special Populations (Pediatrics, Pregnancy, Geriatrics) with Cases</td>
<td>Christina Szperka, MD</td>
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<td>9:50 am – 10:15 am</td>
<td>Case-based Billing and Coding</td>
<td>All Faculty</td>
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<tr>
<td>10:15 am – 10:30 am</td>
<td>Q &amp; A</td>
<td>All Faculty</td>
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<td>8:00 am – 10:30 am</td>
<td><strong>Course IV: UCNS Review Course</strong></td>
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8:00 am - 8:05 am  Introduction to UCNS  
Noah Rosen, MD, FAHS

8:05 am – 8:25 am  Introduction to ICHD3  
Morris Levin, MD, FAHS

8:25 am – 8:45 am  Secondary Headaches  
Noah Rosen, MD, FAHS

8:45 am - 9:05 am  TACs  
Rashmi Halker, MD, FAHS

9:05 am - 9:30 am  Headache Epidemiology, Pathophysiology & Genetics  
Andrew C. Charles, MD, FAHS

9:30 am – 9:50 am  Migraine Treatment  
Jessica Ailani, MD, FAHS

9:50 am – 10:10 am  Headache in Special Populations: Children/Adolescents, Pregnancy/Lactation and the Elderly  
Lauren Doyle Strauss, DO

10:10 am – 10:25 am  High Yield Images  
Stephanie Nahas, MD, FAHS

10:25 am – 10:30 am  Q & A

10:30 am – 12:30 pm  Pan-American /Asian Symposium

10:30 am – 10:45 am  Prediction of Migraine Attack by Resting EEG  
Dr. Kuan-Lin Lai

10:45 am – 10:50 am  Discussion

10:50 am – 11:05 am  Headache and Migraine in Parkinson’s Disease  
Dr. Keisuke Suzuki

11:05 am – 11:10 am  Discussion

11:10 am – 11:25 am  Short Sleep Duration and Poor Sleep Quality Among Migraineurs  
Dr. Tae-Jin Song

11:25 am – 11:30 am  Discussion

11:30 am – 11:45 am  Cognitive Impairment of Patients with Chronic Migraine does not depend on the use of Topiramate or Comorbidities  
Dr. Karen dos Santos Ferreira
11:45 am – 11:50 am Discussion

11:50 am – 12:05 am *Allodynia in Menstrually Related Migraine*  
Dr. Eliana Meire Melhado

12:05 pm – 12:10 pm Discussion

12:10 pm – 12:25 pm *Clomiphene Treatment May Be Effective in Refractory Episodic and Chronic Cluster Headache*  
Dr. Maria Eduarda Nobre

12:25 pm – 12:30 pm Discussion and Closing Remarks

12:30 pm – 2:00 pm Industry-supported Event  
**Satellite Symposium: Managing Patients in Urgent Need of Preventive Migraine Care: When Prophylactic Needs Shouldn’t Wait**  
Supported by Alder BioPharmaceuticals, Inc. Session is not certified for CME credits.

1:00 pm – 2:00 pm Industry-supported Event  
**Product Theater: gammaCore® (nVNS) Scientific and Clinical Basis for the Acute Treatment of Headache**  
Supported by electroCore, LLC. Session not certified for CME credits.

2:15 pm – 2:45 pm Welcome / Opening Remarks / AMF Update

2:45 pm – 4:30 pm Symposium in Honor of Neil H. Raskin, MD, FAHS  
Moderator: R. Allan Purdy, MD, FAHS and Joel R. Saper, MD, FAHS

  2:45 pm – 3:00 pm Welcome / Dr. Raskin Comments

  3:00 pm – 3:30 pm *Channelopathies*  
Louis Ptacek, MD

  3:30 pm – 4:00 pm *Clinical Contributions of Neil H. Raskin*  
Peter J. Goadsby, MD, PhD, FAHS

  4:00 pm – 4:30 pm *UCSF - The Next Generation*  
Amy Gelfand, MD, FAHS

4:30 pm – 5:15 pm AHS Membership Meeting

5:15 pm – 6:30 pm Exhibit Welcome Reception

6:30 pm – 8:00 pm Industry-supported Event  
**Satellite Symposium: Patient Perspectives and Future Therapeutics on Preventive Therapies for Migraine**  
Supported by Eli Lilly and Company
7:00 pm – 8:00 pm  Industry-supported Event
   **Product Theater: e-TNS for the Treatment of Migraine**
   Support by Cefaly Technology. Session not certified for CME credits.

8:00 pm – 9:00 pm  Committee and Section Meetings

**FRIDAY, JUNE 29, 2018**

6:30 am – 8:00 am  Committee and Section Meetings

6:30 am – 8:00 am  Academic Program Director Meeting (invitation only)

6:30 am - 8:00 am  Continental Breakfast

6:30 am – 4:00 pm  Exhibits and Posters
   (Exhibit area closed 11:30 am – 1:15 pm)

8:00 am – 8:45 am  **Seymour Solomon Award Lecture**
   Deborah Friedman, MD, MPH, FAHS

8:45 am – 9:00 am  **Lifetime Achievement Award**
   Presented by Kathleen B. Digre, MD, FAHS
   Recipient: Robert B. Daroff, MD, FAHS

9:00 am – 9:15 am  **NIH Roadmap for Migraine Research**
   Michael Oshinsky, PhD

9:15 am – 9:30 am  **Video Contest Winner Viewing**

9:30 am – 10:45 am  **Future of Headache Medicine**
   Includes IHA Presentations and NIT Submissions
   Moderator: Werner Becker, MD, FAHS and Matthew Robbins, MD, FAHS

   9:30 am – 9:40 am  IHA Research Grant Presentation
   Incidence, Consequences and Prevention of Postoperative, Pain-related Hospital Readmission in Migraineurs
   Katharina Platzbecker, MD

   9:40 am – 9:50 am  IHA Research Grant Presentation
   Photosensitivity, Tactile Hypersensitivity and Pain-related Facial Features as Objective Biomarkers of Chronic PTH
   Anne-Sophie Wattiez, PhD

   9:50 am – 10:00 am  New Investigator Presentation
   FHM01
   Disruptions of Awake Glutamate Signaling in Two Models of Migraine
   Patrick Parker, BSc
10:00 am – 10:10 am  
New Investigator Presentation  
FHM02  
Effects of Subthreshold Single Pulse Transcranial Magnetic Stimulation (sTMS) on Cortical Excitability Relevant to Migraine  
Anna P. Andreou, PhD

10:10 am – 10:20 am  
New Investigator Presentation  
FHM03  
Symptoms of Autonomic Dysfunction in Persistent Post-Traumatic Headache Versus Migraine  
Levi Howard, MD

10:20 am – 10:30 am  
New Investigator Presentation  
FHM04  
Profiling Corticotropin-Releasing Factor Receptor Pharmacology and Signaling in Transfected Cells and the Trigeminal Ganglia  
Zoe Tasma, BSc

10:30 am – 10:40 am  
New Investigator Presentation  
FHM05  
Investigating Cellular and Synaptic Mechanisms Underlying Migraine Phenotype in the Casein Kinase 1 Delta (CK1δ) Mutant Mouse  
Pratyush Suryavanashi, MS

10:45 am – 11:30 am  
Committee and Section Meetings

10:45 am - 11:30 am  
Refreshment Break in Exhibit and Poster Hall

11:30 am – 1:00 pm  
Scientific Paper Presentations - Session 1  
Includes Frontiers in Headache Research Scholarship Presentations  
Moderators: Rashmi Halker, MD, FAHS and Stewart J. Tepper, MD, FAHS

11:30 am – 11:40 am  
LBOR-01  
Differences in fibertract profiles between patients with migraine and those with persistent post-traumatic headache  
Catherine Chong, MD

11:40 am – 11:50 am  
OR-02  
Assessing Unmet Treatment Needs and Associated Disability in Persons with Migraine: Results from Migraine in America Symptoms and Treatment (MAST) Study  
Speaker TBD

11:50 am – 12:00 pm  
OR-03  
Lasmiditan Inhibits CGRP Release in the Mouse Trigeminovascular System  
Antoinette Maassen van den Brink, PhD

12:00 pm – 12:10 pm  
LBOR-02
Enrichment of migraine susceptibility genes in the enteric nervous system
William Renthal, MD

12:10 pm – 12:20 pm

OR-05
Neuroinflammatory Marker Expression in Cerebral Cortex After Non-invasive Optogenetic Induction of Spreading Depolarization in Mice
Tsubasa Takizawa, MD, PhD

12:20 pm – 12:30 pm

OR-06
Life with Migraine, Effect on Relationships: Results of the Chronic Migraine Epidemiology and Outcomes (CaMEO) Study
Dawn C. Buse, PhD, FAHS

12:30 pm – 12:40 pm

OR-07
When Mom Has Migraine: An Observational Study of the Burden of Parental Migraine on Children
Elizabeth K. Seng, PhD, FAHS

12:40 pm – 12:50 pm

OR-08
Profiling Antagonist Pharmacology at CGRP (CLR/RAMP1) and AMY1 (CTR/RAMP1) Receptors
Debbie Hay, PhD

12:50 pm – 1:00 pm

Frontiers in Headache Research Scholarship Presentation
Differential Regulation of Migraine-associated Pain and Negative Affect by Central and Peripheral Delta Opioid Receptors
Isaac Dripps, PhD

1:00 pm – 1:15 pm

Scholarship Award Presentation
Presented by Andrew C. Charles, MD, FAHS

1:15 pm – 2:15 pm

Lunch for Purchase in Exhibit and Poster Hall (authors present)

1:15 pm – 2:15 pm

Electronic Poster Presentations
Moderators: Jessica Ailani, MD, FAHS; Morris Levin, MD, FAHS; Amynah Pradhan, PhD and Bert Vargas, MD, FAHS

2:15 pm – 3:00 pm

Harold G. Wolff Award Lecture
Identifying Natural Subgroups of Migraine Based on Profiles of Comorbidities and Concomitant Conditions: Results of the Chronic Migraine Epidemiology and Outcomes Study (OR17)
Richard B. Lipton, MD
Moderator: Andrew C. Charles, MD, FAHS

3:00 pm – 4:00 pm

PLENARY-Part 1
Science Behind Common Clinical Issues
Moderators: Rami Burstein, PhD and Todd Schwedt, MD, FAHS

3:00 pm – 3:20 pm

Migraine and Epilepsy
3:20 pm – 3:40 pm  *Epidemiology of Incidental Findings*
Randolph W. Evans, MD, FAHS

3:40 pm – 4:00 pm  *Evidence Basis Behind the Use of Supplements*
Tamara Pringsheim, MD

**4:00 pm – 5:00 pm**  
**PLENARY – Part 2**
*Therapeutic Targets of the Future*
Moderators: Rami Burstein, PhD and Todd Schwedt, MD, FAHS

4:00 pm – 4:20 pm  *Role of the Hypothalamus in Primary Headache Disorders*
Andrew C. Charles, MD, FAHS

4:20 pm – 4:40 pm  *The Cycling Brain*
Catherine Chong, PhD

4:40 pm – 5:00 pm  *Peripheral Nervous System Targets*
Chelsea Hesterman, MD

**5:00 pm – 6:30 pm**
Industry-supported Event
*Satellite Symposium: New Era of Migraine Management: The Changing Landscape in Prevention*
Supported by Teva and MediCom Worldwide, Inc.

**5:30 pm – 6:30 pm**
Industry-supported Event
*Product Theater: Head to Head: The Debate Over Migraine*
Supported by Amgen, Inc./Novartis Pharmaceuticals. Session not certified for CME credits.

**SATURDAY, JUNE 30, 2018**

**7:00 am – 8:00 am**
Industry-supported Event
*Product Theater: Introducing Pulsante (SPG Stimulation) a New Treatment for Chronic Cluster*
Supported by Autonomic Technologies, Inc. Session not certified for CME credits.

6:30 am – 8:00 am  Continental Breakfast

6:30 am – 2:15 pm  Exhibits and Posters
(Exhibit hall closed 10:30am-12:00pm)

8:00 am – 10:00 am  *Industry-submitted Abstracts*
*Session not eligible for CME*
Moderators: Andrew C. Charles, MD, FAHS and Elizabeth W. Loder, MD, MPH, FAHS
8:00 am – 8:10 am  
**IOR-01**  
Long-term Safety and Tolerability of Erenumab: Three-plus Year Results from an Ongoing Open-label Extension Study in Episodic Migraine  
Messoud Ashina, MD, PhD, DMSc

8:10 am – 8:20 am  
**IOR-02**  
Phase 3 Studies (SAMURAI, SPARTAN) of Lasmiditan Compared to Placebo for Acute Treatment of Migraine  
Linda A. Wietecha, BSN, MS

8:20 am – 8:30 am  
**IOR-03**  
Eptinezumab Reduced Migraine Activity and Achieved High Migraine Responder Rates over Weeks 1–12: Results from the Phase 3 PROMISE-2 Trial in Chronic Migraine  
Paul K. Winner, DO, FAHS

8:30 am – 8:40 am  
**IOR-04**  
Eptinezumab Achieved Meaningful Reductions in Migraine Activity as Early as Day 1:PROMISE-2 (Prevention of Migraine via Intravenous Eptinezumab Safety and Efficacy-2) Phase 3 Trial in Chronic Migraine  
David Kudrow, MD

8:40 am – 8:50 am  
**IOR-05**  
Rapid Onset of Effect of Galcanezumab for the Prevention of Episodic Migraine: Post-hoc Analyses of Two Phase 3 Studies  
Sheena K. Aurora, MD

8:50 am – 9:00 am  
**IOR-06**  
A Multicenter, Prospective, Randomized, Open-Label Study to Compare OnabotulinumtoxinA and Topiramate for Headache Prevention in Adults with Chronic Migraine: Patient Reported Outcomes from the FORWARD Study  
Andrew Blumenfeld, MD

9:00 am – 9:10 am  
**IOR-07**  
The Impact of Fremanezumab on Medication Overuse in Patients with Chronic Migraine  
Stephen D. Silberstein, MD, FAHS

9:10 am – 9:20 am  
**IOR-08**  
Efficacy and Safety of Erenumab in Episodic Migraine Patients with 2–4 Prior Preventive Treatment Failures: Results from the Phase 3b LIBERTY Study  
TBN

9:20 am – 9:30 am  
**IOR-09**  
Assessment of Pharmacokinetics, Target Engagement and Immunogenicity in Patients with Migraine Administered Galcanezumab, an Anti-CGRP Antibody
William Kielbasa, PhD

9:30 am – 9:40 am  **IOR-10**
Low-Dose (3 Mg) Sumatriptan Injection (DFN-11) Efficacy, Tolerability, and Safety in Episodic Migraine: RESTOR, a Randomized, Double-Blind, Placebo Controlled Study
Stephen Landy, MD

9:40 am – 9:50 am  **IOR-11**
Achievement of Response with Fremanezumab in the Treatment of Chronic Migraine
Paul K. Winner, DO, FAHS

9:50 am – 10:00 am  **IOR-01LB**
David W. Dodick, MD, FRCP, FACP, FAHS

10:00 am – 10:10 am  **IOR-02LB**
Efficacy, Safety, and Tolerability of Rimegepant 75 mg, an Oral CGRP Receptor Antagonist, for the Acute Treatment of Migraine: Results from a Double-Blind, Randomized, Placebo-Controlled Trial, Study 302
Richard B. Lipton, MD

10:10 am – 10:20 am  **IOR-03LB**
Study CGAL: A Phase 3 Placebo-Controlled Study of Galcanezumab in Patients with Episodic Cluster Headache: Results from the 8-Week Double-Blind Treatment Phase
Sheena K. Aurora, MD, FAHS

10:00 am – 10:30 am  Refreshment Break in Exhibit and Poster Hall

10:30 am – 12:00 pm  **Scientific Paper Presentations Including Late Breaking Abstract Presentations and Frontiers in Headache Research Scholarship Presentations**
**Session 2**
Moderators: Deborah I. Friedman, MD, MPH, FAHS and Robert Shapiro, MD, PhD

10:30 am – 10:40 am  **OR-09**
Peripheral CGRP-induced Spontaneous Pain in a Pre-clinical Mouse Model of Migraine
Levi Sowers, PhD

10:40 am – 10:50 am  **OR-10**
Accuracy of Appraisal of Headache Trigger Patterns Using Calendars
Dana P. Turner, MSPH, PhD
10:50 am – 11:00 am  **OR-11**
Triptan Use and Discontinuation in a Representative Sample of Persons with Migraine: Results from Migraine in America Symptoms and Treatment (MAST) Study
Aftab Alam, MBBS, MS, MBA

11:00 am – 11:10 am  **OR-12**
Non-invasive Stimulation of the Vagal Nerve Reduces Provoked Cranial Autonomic Output in Healthy Volunteers
Maike Moeller, M.Sc.

11:10 am – 11:20 am  **OR-13**
Profiling Calcitonin Gene-related Peptide Receptor Signaling in Transfected Cells and Trigeminal Ganglia Neurons
Christopher S. Walker, PhD

11:20 am – 11:30 am  **OR-14**
Post-Traumatic vs Non-Traumatic Headaches: A Phenotypic Analysis
Andrea Metti, PhD

11:30 am – 11:40 am  **LBOR-03**
Age-related Cortical Thickness Changes in Chronic Migraine
Yohannes W. Woldeamanuel, MD

11:40 am – 11:50 am  **LBOR-04**
Adverse childhood experience and medication overuse headache: frequency and effects on response to treatment
Claire H. Sandoe, MD, MSc

11:50 am – 12:00 pm  **Frontiers in Headache Research Scholarship Presentation**
Photoreceptor-specific Mechanisms of Migraine-associated Photophobia
Eric Kaiser, MD, PhD

12:00 pm – 1:00 pm  **DEBATE**
Migraine Triggers Should Always be Avoided
PRO - Richard B. Lipton, MD, FAHS
CON - Paul R Martin, OAM, FBPsS, Hon FAPS
Moderators: Dawn C. Buse, PhD, FAHS and Paul Winner, DO, FAHS

1:00 pm – 2:15 pm  Lunch for Purchase in Exhibit and Poster Hall (authors present)

1:00 pm – 2:15 pm  **Electronic Poster Presentations**
Moderators: Rami Burstein, PhD; Amy Gelfand, MD, FAHS; Amaal Starling, MD, FAHS and Stewart J. Tepper, MD, FAHS

2:15 pm – 3:45 pm  **Scientific Paper Presentations – Session 3**
Includes Frontiers in Headache Research Scholarship Presentations
Moderators: Kathleen B. Digre, MD, FAHS and Jelena Pavlovic, MD

2:15 pm – 2:25 pm  **OR-15**
Reversion of Patients with Chronic Migraine to an Episodic Migraine Classification with Fremanezumab Treatment
Rashmi B. Halker Singh, MD, FAHS

2:25 pm – 2:35 pm  
**OR-16**
Migraine Pattern Changes in Women During the Menopause Transition
Yu-Chen Cheng, MD, MPH

2:35 pm – 2:45 pm  
**LBOR-05**
Examination of the psychometric properties of the Headache Specific Locus of Control scale in people with migraine
Amy S. Grinberg, MA

2:45 pm – 2:55 pm  
**LBOR-06**
Interest and Demand for Non-Opioid, Non-Drug Treatment Options for Migraine
Rebecca E. Wells, MD, MPH, FAHS

2:55 pm – 3:05 pm  
**LBOR-07**
A randomized, sham-controlled trial of bilateral greater occipital nerve blocks with bupivacaine for acute migraine patient’s refractory to standard emergency department treatment with metoclopramide
Eddie Irizarry, MD

3:05 pm – 3:15 pm  
**LBOR-08**
Rimegepant and BHV-3500, Small Molecule CGRP Receptor Antagonists, Exhibit No Active Vasoconstrictive Properties in Ex Vivo Human Coronary or Cerebral Arteries
Charles M. Conway, PhD

3:15 pm – 3:25 pm  
**LBOR-09**
Neuromodulation of Cortical Spreading Depression in the Ferret
Serapio M. Baca, PhD

3:35 pm – 3:45 pm  
**Frontiers in Headache Research Scholarship Presentation**
Central and Systemic Inflammation After Spreading Depolarizations
Tsubasa Takizawa, MD, PhD

3:45 pm – 4:30 pm  
Committee and Section Meetings

4:30 pm – 5:15 pm  
**John R. Graham Award Lecture**
Teaching Headache Neurology 2018
R. Allan Purdy MD, FRCPC
Moderator: David W. Dodick, MD, FAHS and Paul Rizzoli, MD, FAHS

**SUNDAY, JULY 1, 2018**

7:00 am – 8:00 am  
Continental Breakfast
8:00 am – 9:30 am  
**PLENARY – Part 3**  
Chronic Migraine vs. Chronic Pain: Similarities and Differences  
Moderators: Morris Levin, MD, FAHS and Paul Winner, DO, FAHS

8:00 am – 8:30 am  
*Clinical Differences/Background*  
David W. Dodick, MD, FAHS

8:30 am – 9:00 am  
*Chronic Migraine vs Chronic Pain as Seen in Imaging Studies in Humans*  
David Borsook, MD, PhD

9:00 am – 9:30 am  
*Pathophysiological Differences and Similarities as Seen in Translational Studies in Animals and Humans*  
Rami Burstein, PhD

9:30 am – 10:00 am  
**OPEN DEBATE**  
Questions, Answers and Comments by Participants and Presenters  
David Dodick, MD, FAHS  
David Borsook, MD, PhD  
Rami Burstein, PhD  
Moderators: Andrew C. Charles, MD, FAHS and Bert Vargas, MD, FAHS