



Caribe Royale All-Suite Hotel and Convention Center  
February 15-17, 2018 • Orlando, Florida



# CONFERENCE SCHEDULE OVERVIEW

## THURSDAY

| Time              | Function                                | Room          |
|-------------------|---|---------------|
| 7:30 AM - 5:30 AM | Registration                            |               |
| 9:45 - 10:15 AM   | Morning Break                           |               |
| 8:30 AM - 4:00 PM | Workshop 1                              | Caribbean VII |
| 8:30 AM - 4:00 PM | Workshop 2                              | Boca I        |
| 8:30 AM - 4:00 PM | Workshop 3                              | Boca II       |
| 8:30 AM - 4:00 PM | Workshop 4                              | Boca III      |
| 8:30 AM - 4:00 PM | Workshop 5                              | Boca IV       |
| 4:00 - 5:00 PM    | Committee Meetings/<br>Networking       |               |
| 5:30 - 8:30 PM    | Exhibitor Reception/<br>Poster Sessions | Boca V-VIII   |

## FRIDAY

| Time               | Function                          | Room                        |
|--------------------|-----------------------------------|-----------------------------|
| 7:00 - 8:00 AM     | Breakfast                         |                             |
| 7:30 AM - 5:30 PM  | Registration                      |                             |
| 8:00 - 9:45 AM     | Morning General Session           | Caribbean VI                |
| 9:45 - 10:05 AM    | Morning Break                     |                             |
| 10:05 - 11:50 AM   | Morning General Session           | Caribbean VI                |
| 11:25 - 11:50 AM   | NHCA Business Meeting             |                             |
| 11:50 AM - 1:00 PM | Lunch<br>Speaker Charles Spence   | Caribbean III               |
| 1:20 - 3:00 PM     | Afternoon General Session         | Caribbean VI                |
| 3:00 - 3:30 PM     | Afternoon Break                   |                             |
| 3:30 - 4:30 PM     | Afternoon General Session         | Caribbean VI                |
| 4:30 - 5:00 PM     | 2018 Safe and Sound Awards        |                             |
| 5:00 - 6:15 PM     | Committee Meetings/<br>Networking |                             |
| 5:00 - 6:15 PM     | Student Meet & Greet              |                             |
| 6:30 - 9:30 PM     | Friday Night Event                | Splitsville<br>Luxury Lanes |

## SATURDAY

| Time               | Function                                       | Room          |
|--------------------|--|---------------|
| 7:00 AM - 5:30 PM  | Registration                                   |               |
| 7:00 AM - 7:45 PM  | Exhibits/Poster Sessions                       | Boca V-VIII   |
| 7:45 - 8:45 AM     | Breakfast Round Table Chats                    |               |
| 9:00 - 10:00 AM    | Breakout Session 1<br>(Military/Firearms)      | Boca I        |
| 9:00 - 10:00 AM    | Breakout Session 2<br>(Impulse Noise)          | Boca II       |
| 9:00 - 10:00 AM    | Breakout Session 3<br>(Music)                  | Boca III      |
| 10:30 - 11:50 AM   | Breakout Session 1<br>(Military/Firearms)      | Boca I        |
| 10:30 - 11:50 AM   | Breakout Session 4<br>(Prevention & Education) | Boca IV       |
| 11:50 AM - 1:05 PM | Awards Luncheon                                | Caribbean III |
| 1:05 - 2:15 PM     | Exhibits/Poster Sessions                       | Boca V-VIII   |
| 2:15 - 4:50 PM     | Afternoon General Session                      | Caribbean VI  |
| 4:50 - 5:00 PM     | Closing Remarks/<br>Safe Travels               | Caribbean VI  |

# 2018 SCHEDULE OF EVENTS

Thursday • February 15 • 2018

|  |  |
|--|--|
| 7:30 AM - 5:30 PM  | Registration and Information Desk Open   |
| 7:30 AM - 8:30 AM  | Breakfast  |
| 8:30 AM - 9:45 AM  | Morning Workshops  |
| 9:45 AM - 10:15 AM   | Morning Break  |
| 10:15 AM - 11:30 AM  | Morning Workshops  |
| 11:30 AM - 1:00 PM   | Lunch On Your Own  |
| 1:00 PM - 2:15 PM  | Afternoon Workshops  |
| 2:15 PM - 2:45 PM  | Afternoon Break  |
| 2:45 PM - 4:00 PM  | Afternoon Workshops  |
| 4:00 PM - 5:00 PM  | Committee Meetings / Networking  |
| 5:30 PM - 8:30 PM  | Exhibitor's Reception  |
| 5:30 PM - 8:30 PM  | Poster Session   |
| Workshops  |  |
| *Please Remember to sign in on the sheets provided in each workshop* |  |
| Workshop 1   |  |
| Full Day Workshop  | Hearing Loss Prevention: The Basics<br><i>Presenters: Stephanie Sayler, James Jerome, Theresa Schulz, Mary McDaniel</i>    |
| Workshop 2   |  |
| Full Day Workshop  | Forensics and Expert Witnessing<br>for the Acoustician - Audiologist - M.D. - Engineer<br><i>Presenter: John G. Casali</i> |
| Workshop 3   |  |
| Morning Workshop   | The Art of Presentation<br><i>Presenter: Elliott Berger</i>  |
| Afternoon Workshop   | Audio Basics Workshop<br><i>Presenter: Benj Kanters</i>  |
| Workshop 4   |  |
| Morning Workshop   | Fit Testing<br><i>Presenter: William Murphy</i>  |
| Workshop 5   |  |
| Morning Workshop   | PSP Workshop   |
| Afternoon Workshop   | Suppressors, Hearing Protection and Hearing Conservation<br><i>Presenter: Ryan Lee Scott</i>                               |

# 2018 SCHEDULE OF EVENTS

Friday • February 16 • 2018

|                                       |   |
|---------------------------------------|---|
| 7:00 AM - 5:30 PM                     | Registration Open   |
| 7:00 AM - 8:00 PM                     | Continental Breakfast   |
| <b>Morning General Session Agenda</b> |   |
| 8:00 AM - 8:15 AM                     | Welcome and Opening Remarks   |
| <b>8:15 AM - 8:45 AM</b>              | <b>KEYNOTE PRESENTATION:</b> The Ear Beyond Hearing: From Digital Earplugs to In-Ear Brain Computer Interfaces<br><i>Presenter: Jeremie Voix</i>  |
| 8:45 AM - 9:05 AM                     | Knowing Your Noise Can Change Attitudes to Hearing Health and Increase Likelihood of Healthy Hearing Behaviours: Evaluation of a HEARsmart Project<br><i>Presenter: Elizabeth Beach</i> |
| 9:05 AM - 9:25 AM                     | Hidden Hearing Loss? Effects of Recreational Noise on Evoked Potential Amplitude and Other Auditory Test Metrics<br><i>Presenter: Colleen Le Prell</i>                                  |
| 9:25 AM - 9:45 AM                     | Bringing Best Practices in Hearing Conservation to a Wider Audience<br><i>Presenter: Ted Madison</i>  |
| <b>9:45 AM - 10:05 AM</b>             | <b>BREAK</b>  |
| 10:05 AM - 10:25 AM                   | Hearing Conservation Program Costs and Effectiveness<br><i>Presenter: Rick Neitzel</i>  |
| 10:25 AM - 10:45 AM                   | Learning to Localize with Advanced Hearing Protectors and TCAPS Can Equivalent Open Ear Performance ever be Reached and How?<br><i>Presenter: Kichol Lee</i>                            |
| 10:45 AM - 11:05 AM                   | Localization of Reverse Alarms with Passive and Level-Dependent Hearing Protectors<br><i>Presenter: Chantal Laroche</i>   |
| 11:05 AM - 11:25 AM                   | Hearing Protector Attenuation and Noise Exposure Among Metal Manufacturing Workers<br><i>Presenter: Stephanie K. Saylor</i>   |
| 11:25 AM - 11:50 AM                   | NHCA Business Meeting   |
| <b>11:50 AM - 1:00 PM</b>             | <b>SPEAKER LUNCHEON - CHARLES SPENCE</b><br><b>SOUND BITES &amp; SONIC SEASONING</b>  |

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# 2018 SCHEDULE OF EVENTS

Friday • February 16 • 2018

| Afternoon General Session Agenda |   |
|----------------------------------|---|
| 1:20 PM - 2:20 PM                | The "Make Listening Safe" Campaign by the World Health Organization (WHO): Considerations and Recommendations<br><i>Presenters: Rick Neitzel, Brian Fligor, Deanna Meinke. Facilitator: Colleen G. Le Prell</i> |
| 2:20 PM - 2:40 PM                | Loudness in the Occluded Ear Canal: Are We Still Missing 6dB?<br><i>Presenter: Fabien Bonnet</i>  |
| 2:40 PM - 3:00 PM                | Ambient Noise in the Sound Booth During Audiometry<br><i>Presenter: Gregory Flamme</i>  |
| <b>3:00 PM - 3:30 PM</b>         | <b>BREAK</b>  |
| 3:30 PM - 3:50 PM                | Kids Nowadays Hear Better Than We Did<br><i>Presenter: Robert A Dobie</i>   |
| 3:50 PM - 4:10 PM                | Evolution of the FitCheck! Hearing Protection Device (HPD) Field Attenuation Estimation System (FAES)<br><i>Presenter: William A. Ahroon</i>  |
| 4:10 PM - 4:30 PM                | Validation of Clinical Techniques for Verification of Uniform Attenuation Earplugs<br><i>Presenter: Cory Portnuff</i>   |
| <b>4:30 PM - 5:00 PM</b>         | <b>Safe-in-Sound Excellence in Hearing Loss Prevention Awards</b>   |
| 5:00 PM - 6:15 PM                | Break/Committee Meetings/Networking Time  |
| 5:00 PM - 6:15 PM                | Student Only Meet and Greet   |
| <b>6:30 PM - 9:30 PM</b>         | <b>FRIDAY NIGHT EVENT</b>   |

## 2018 FRIDAY NIGHT EVENT

Friday, February 16 • 6:30 - 9:30 PM



It's a whole new spin on bowling! Splitsville Luxury Lanes™ is a two-story, 50,000 square-foot bowling and dining complex located in the heart of Disney Spring's West Side® at the Walt Disney World Resort.

Splitsville's atmosphere is a rare combination of upscale and nostalgic feel which is the perfect place for your party with 30 luxury bowling lanes, billiards, live entertainment, and ample indoor and outdoor seating. Splitsville is an energetic yet comfortable atmosphere that can handle parties up to 1500 guests.

It doesn't stop there! Splitsville offers an eclectic menu that features everything from fresh-rolled sushi to traditional favorites like mouth-watering cheeseburgers and hand-tossed pizzas.

Splitsville is the perfect experience for convention buyouts, cocktail receptions, corporate team-building events, and kids parties, so get ready to ROLL IN and ROCK OUT for your next event!

We hope to have a fun time at Splitsville enjoying the night networking among colleagues



# 2018 SCHEDULE OF EVENTS

Saturday • February 17 • 2018

|                          |  |
|--------------------------|--|
| 7:00 AM - 5:30 PM        | Registration and Information Desk Open |
| 7:00 AM - 7:45 AM        | <b>EXHIBITS / POSTER SESSION</b>       |
| <b>7:45 AM - 8:45 AM</b> | <b>BREAKFAST ROUND TABLE CHATS</b>     |
| 8:45 AM - 8:55 AM        | Interim Break                          |

| Breakout Session #1:   | Breakout Session #2:  | Breakout Session #3:  |
|--|---|---|
| Boca I   | Boca II   | Boca III  |
| Military / Firearms  | Impulse Noise   | Music   |
| 9:00 AM - 9:20 AM  |   |   |
| Risk Factors Associated with Tinnitus, and Hearing Loss in Current and Recently Separated Service Members Across Military Branches<br><i>Presenter: James A. Henry</i> | Laboratory Conditioning of Middle Ear Muscle Contractions<br><i>Presenter: Gregory Flamme</i>   | Musicians with Conventional Noise Notches Have Poorer Extended High Frequency Sensitivity<br><i>Presenter: Heather Malyuk</i>                               |
| 9:20 AM - 9:40 AM  |   |   |
| Landing On The Roof - Revisited<br><i>Presenter: Kurt Yankaskas</i>  | Generalizability of Clinically-Measured Acoustic Reflexes to Brief Sounds<br><i>Presenter: Kristy K. Deiters</i>  | OSHA Meets NIHL Music Venue Sited as Occupational Hearing Hazard The Challenge of Being a Hearing Conscious Sound Engineer<br><i>Presenter: Benj Kanter</i> |
| 9:40 AM - 10:00 AM   |   |   |
| Auditory Hazards of Bullet N-wave Exposure<br><i>Presenter: Gregory Flamme</i>   | Estimating Personnel Noise Exposure from Impulsive Noise When Hearing Protection Devices are Worn: IPIL vs. NRSA<br><i>Presenter: Hillary Gallagher</i> | An Exploratory Survey of Sound Levels in New York City Restaurants and Bars<br><i>Presenter: Greg Farmer</i>  |
| 10:00 AM - 10:30 AM - Break  |   |   |

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# 2018 SCHEDULE OF EVENTS

Saturday • February 17 • 2018

| Breakout Session #1:  | Breakout Session #4:   |
|---|--|
| Boca I  | Boca IV  |
| Military / Firearms   | Prevention and Education   |
| 10:30 AM - 10:50 AM   |  |
| Noise Control on US Navy Aircraft Carriers -<br>Methodology and Results<br><i>Presenter: Jeffery M. Kromwer</i>             | Continuous Monitoring of Otoacoustic Emissions:<br>A Tool to Prevent Hearing Loss<br><i>Presenter: Vincent Nadon</i>                 |
| 10:50 AM - 11:10 AM   |  |
| MILSINT: Development of a Military Sound Recognition<br>in Noise<br><i>Presenter: Jennifer Tufts</i>                        | Visit Whisperwell and Explore the "Song of the Star Bird"<br><i>Presenter: Deanna K. Meinke</i>                                      |
| 11:10 AM - 11:30 AM   |  |
| The Attenuation of Firearm Suppressors as a Function of<br>Angle and Bullet Velocity<br><i>Presenter: William J. Murphy</i> | Jolene's Musical Instrument Adventure<br><i>Presenter: Cameron J. Fackler</i>  |
| 11:30 AM - 11:50 AM   |  |
| Extended High Frequency Pure Tone Audiometric<br>Outcomes in Youth Firearm Users<br><i>Presenter: Shana Laffoon</i>         | Centers for Disease Control and Prevention Efforts in<br>Preventing Non-Work Related Hearing Loss<br><i>Presenter: Yulia Carroll</i> |

|                           |  |
|---------------------------|--|
| <b>11:50 AM - 1:05 PM</b> | <b>HOSTED LUNCHEON AND AWARDS</b>  |
| 1:05 PM - 2:15 PM         | Exhibit Hall and Posters   |
| <b>2:15 PM - 2:45 PM</b>  | <b>GASEWAY LECTURE - Michael Santutcci</b>   |
| 2:45 PM - 3:05 PM         | Numerical Modeling of the Ear Canal: Benefits and Challenges<br><i>Presenter: Guilhem Viallet</i>  |
| 3:05 PM - 3:25 PM         | Experimental Validation of an Impedance Tube Measurement Method for As-<br>sessing Earplugs Insertion Loss<br><i>Presenter: Kevin Carillo</i>                        |
| <b>3:25 PM - 3:50 PM</b>  | <b>BREAK</b>   |
| 3:50 PM - 4:10 PM         | The Department of Defense Comprehensive Hearing Health Program: A Pilot Study<br><i>Presenter: John A. Merkley, Co-Presenter: Tanisha Hammill</i>                    |
| 4:10 PM - 4:30 PM         | Cardiovascular Conditions, Hearing Difficulty, and Occupational Noise Exposure<br>within U.S. Industries and Occupations<br><i>Presenter: Elizabeth A. Masterson</i> |
| 4:30 PM - 4:50 PM         | What Have We Learned in the 10 Years of the Safe-in-Sound Awards?<br><i>Presenter: Thais C. Morata</i>   |
| <b>4:50 PM - 5:00 PM</b>  | <b>CLOSING REMARKS</b>   |

## POSTER PRESENTATIONS

**Accuracy of NIOSH SLM and Sound Level Analyzer Lite Sound Level Meter Apps for iPhone**

*Presenter: Kaitlin Palmer, Co-Presenters: Tess A. Zaccardi, Sarah K. Grinn, Colleen G. Le Prell*

**Advancements on an Active Hearing Protection Device for Musicians**

*Presenter: Antoine Bernier*

**Assessing Auditory Localization with Hearing Protection: A Screening Measure**

*Presenter: Angelique Scharine, Co-Presenter: Morgan C. Domanico*

**Attenuation Using High Fidelity Hearing Protection Devices**

*Presenter: Tess A. Zaccardi, Co-Presenters: Kaitlin Palmer, Sarah K. Grinn, Colleen G. Le Prell*

**Audiometric Notches and Hearing Loss in Adolescents: Analyses of NHANES 2007-2010**

*Presenter: Yulia Carroll, Co-Presenter: Franco Scinicariello*

**Bus Noise and Annoyance: What Drivers and Collectors Think About.**

*Presenter: Teresa Maria Momensohn-Santos*

**Concomitant Head/Neck Muscle Activity and Middle Ear Muscle Contractions**

*Presenter: Stephen M. Tasko*

**Dangerous Decibels Programme Implementation in Brazil**

*Presenter: Adriana Bender Moreira de Lacerda, Co-Presenter: Lys Maria Allenstein Gondim*

**Effect of Helmet Visor Length on Hockey Officials Exposure to Whistle Noise**

*Presenter: Karin L. Adams*

**Evaluation of Noise Exposures and Hearing Loss at a Hammer Forge Company**

*Presenter: William J. Murphy, Co-Presenter: Scott E. Brueck*

**Following the Tech Tide**

*Presenter: Kan Sun*

**Hawkeyes Wear Their HawkEars- A Healthy Hearing Initiative at The University of Iowa**

*Presenter: Kevin Kock, Co-Presenter: Stephanie M. Fleckenstein*

**Hearing Hazards at Church: Trials & Tribulations of Awareness & Hearing Loss Prevention**

*Presenter: Jan A. Moore*

**Hearing Health Education Programs for Rural Youth: Lessons Learned From Recent Studies**

*Presenter: Khalid M. Khan, Co-Presenter: Marjorie McCullagh*

**Hearing Impairment and Audiometric Configurations as Predictive Factors of Presbycusis Decline**

*Presenter: Christina Hederstierna, Co-Presenters: Ulf Rosenhall, Esma Idrizbegovic*

**In-ear and On-body Measurements of Impulse Noise Exposure**

*Presenter: William J. Murphy*

**Influence of Environmental Noise in Reading**

*Presenter: Teresa Maria Momensohn-Santos*



## POSTER PRESENTATIONS

### **Integrating Audiological Assessment in Farm & Tractor Safety Training**

*Presenter: Jan A. Moore*

### **Middle Ear Muscle Activity Associated with Mastication**

*Presenter: Madeline V. Smith, Co-Presenter: Stephen M. Tasko*

### **Music Induced Hearing Loss in Band Students and Directors: A Review of the Literature**

*Presenter: Hannah Speaks, Co-Presenter: Sherilyn Adler*

### **OHC Training Using Alternative Instruction Methods**

*Presenter: John A. Merkley, Co-Presenter: Kim J. Stanton*

### **Output Levels of Volume-Limiting Earphones**

*Presenter: Caleb Kronen, Co-Presenter: Cory Portnuff*

### **Perception, Attitude, and Knowledge of Hearing Health Among Two Groups of Young Farm Workers From Rural Indiana**

*Presenter: Sylvanna L. Bielko, Co-Presenter Khalid M. Khan*

### **Plugs in the Clubs: An independent audit of San Francisco's Earplug Ordinance**

*Presenter: Elon Ullman*

### **Tactical Communication and Protective Systems - Saving Hearing and Enhancing Mission Success**

*Presenter: John A. Merkley*

### **The Effects of Hunting on the Canine Brainstem Auditory Evoked Response**

*Presenter: Kori Zedaker*

### **The Subjective Wearer Comfort and Sound Attenuation Performance: a Comparison between Custom-moulded Earplugs Made by Manual and 3D-printing Processing**

*Presenter: Cheng-Yu Ho*

### **Time to Change Direction: Advocate for a Total Worker Hearing Health Program versus the Status Quo**

*Presenter: Kathy E. Gates, Co-Presenter: Vickie L. Tuten*

### **Usability Study of the War fighter**

*Presenter: Kelly Watts*

### **Use of Hearing Protection among Noise-Exposed Populations in the US: What Can National Surveys Tell Us?**

*Presenter: Christa L. Themann*

### **Using Smart Devices to Measure Intermittent Noise in the Workplace**

*Presenter: Ben Roberts*