

GENERAL CONFERENCE INFORMATION

ACOEM

Established in 1916, the American College of Occupational and Environmental Medicine (ACOEM) is the pre-eminent organization of occupational health professionals who champion the health and safety of workers, workplaces, and environments. Its mission is to provide leadership by educating health professionals and the public; stimulating research; enhancing the quality of practice; guiding public policy; and advancing the field of occupational and environmental medicine (OEM). In its leadership role, ACOEM sponsors educational activities for physicians and other health professionals, including courses and the annual spring AOHC.

AOHC 2017

The 2017 American Occupational Health Conference (AOHC) is ACOEM's 102nd Annual Meeting.

AOHC serves two fundamental purposes: it is the premier professional meeting for physicians and other health professionals who have an interest in the fields of occupational and environmental medicine (OEM); and it is the annual membership meeting for ACOEM's members.

Educational Needs and Objectives

OEM is the medical specialty devoted to the prevention and management of occupational and environmental injury, illness, and disability, and the promotion of health and productivity of workers, their families, and communities.

ACOEM has identified core competencies in areas where the OEM-trained physician should strive to remain current and serve as a knowledgeable representative of the specialty. The ten core competencies are available at www.acoem.org

The ACOEM CME mission is to provide educational activities that enhance the professional capabilities related directly to the professional work of physicians practicing occupational and environmental medicine and (1) to promote physician lifelong and self-directed learning, (2) to improve worker/patient clinical outcomes, (3) to facilitate physician effectiveness and efficiency in carrying out professional responsibilities, and (4) communicate the value of occupational and environmental medicine.

To address the educational needs of OEM physicians, AOHC is planned within the context of desirable physician attributes and aligned with the OEM core competencies.

AOHC content is designed to enhance physician competence and performance and to improve patient outcomes by providing learner-centered education in the most current issues relevant to the practice of OEM.

Upon completion of AOHC 2017, the learner should be able to:

- evaluate current research;
- analyze emerging issues in OEM; and

- Exemplify effectiveness and efficiency in carrying out professional responsibilities.

Target Audience

AOHC is designed for physicians who specialize in or have an interest in OEM as well as for non-physicians, such as industrial hygienists, nurses, safety professionals, and environmental health specialists who are involved in the field. AOHC offers a variety of educational activities for participants new to OEM as well as for the experienced professional.

ACCME Accreditation Statement

"The American College of Occupational and Environmental Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians."

AMA Credit Designation Statement

"The American College of Occupational and Environmental Medicine designates this live activity for a maximum of 25.0 *AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity."

AAFP

Application for credit has been submitted to the American Academy of Family Physicians.

ABOHN

The American Board of Occupational Health Nurses may recognize *AMA PRA Category 1 Credit(s)*[™] as applicable for the education requirements for certification by the ABOHN.

ABPM

ABPM – The majority of AOHC sessions are eligible for ABPM MOC credit toward recertification with the American Board of Preventive Medicine. Those sessions are identified by "MOC." The maximum number of ABPM MOC credits available for this educational activity is 25.0 and the course code is 1391.

ABPM Patient Safety Requirement Sessions

The program was reviewed to identify sessions that met the ABPM patient safety requirement. The following sessions have been approved: 108, 215, 222, 303, 308, 310, 312. In order to claim credit as having met the patient safety requirement, submit a copy of your CME/MOC Credit Verification Form to ABPM showing that you have answered the self-assessment questions for these sessions.

Doctors of Osteopathy

This conference may be eligible for Category 2-A credit from the American Osteopathic Association.

Physician Assistants

AAPA accepts certificates of participation for educational activities certified for *AMA PRA Category 1 Credit*[™] from organizations

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accredited by ACCME or a recognized state medical society. Physician assistants may receive a maximum of 25.0 hours of credit for completing this program.

Attendees, particularly RNs, are encouraged to consult their respective certifying associations/agencies for the conversion to other educational credit.

HOW TO OBTAIN PROOF OF YOUR EDUCATIONAL CREDITS

AMA PRA Category 1 Credit(s)TM

In order to be awarded *AMA PRA Category 1 CreditTM*, attendees should:

- Complete the CME/MOC attendance verification form, checking the box for CME credit.
- Return the form to the AOHC registration desk or to any ACOEM staff member. You may also fax or mail it to the ACOEM office.
- Approximately 60 days after the conference, your credits will post to your ACOEM CME record.

To access a copy of your ACOEM CME transcript, please follow the instructions below:

Begin at our website: www.acoem.org

- Select "MyACOEM LOG-IN" and log in using your e-mail address and password (please contact our Membership Department at 847-818-1800 if you are not aware of your log-in information. A default password was established for first time attendees).
- Your MyACOEM page will be displayed
- You will see a link on the left-hand side to **View My CME Transcript** (ACOEM members click on "myProfile" first)
- Enter the date range that you would like your CME transcript to cover
- Select "View Transcript"

- Your transcript will be displayed and is ready to be printed

This service is available to both ACOEM members and non-members, physicians and non-physicians. Please note, ACOEM does not produce or mail CME certificates. Proof of CME credit should be obtained via the online transcript system. The transcript contains the same wording as a certificate would have - it is simply in a different format.

ABPM MOC Credit

In order to be awarded ABPM MOC credit, attendees should:

- Complete the ABPM MOC self-assessment for the conference. The self-assessment is located near the AOHC registration area in the kiosks.
- Complete the CME/MOC attendance verification form, checking the box for MOC credit. Be sure to list your answers on the back of the form, otherwise credit cannot be awarded!
- Return the CME/MOC credit verification form to the AOHC registration desk or to any ACOEM staff member.
- Credit will post to your ABPM MOC profile approximately 60 days after the conference.

Please note, ABPM MOC credits are not posted to your ACOEM CME transcript. Unfortunately, we will be unable to process your MOC credits if you do not list the answers for the self-assessment on the back of the CME/MOC attendance verification form.

EVALUATIONS – A STREAMLINED EVALUATION PROCESS

To help ACOEM continue to offer the most up-to-date educational experiences possible and to provide the conference planning committee with faster and more robust information for developing future content, AOHC evaluations can once again be completed quickly and easily on your desktop, laptop, or PDA through a service called Meeting Metrics.

At the end of each day during the conference, watch your e-mail for a link to evaluate that day's sessions. Each one you complete

automatically enters you for a chance to win a prize! Complete the session evaluations onsite using your device or one of the AOHC internet stations. Soon after the conference, the overall evaluation will arrive. Please complete the evaluation – your opinions are vital and will make next year's conference even better. The committee awaits your input!

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Disclaimer

The ideas represented in presentations at AOHC 2017 do not necessarily reflect ACOEM positions. ACOEM disclaims responsibility or liability for all products, services, or information presented at AOHC 2017. ACOEM does not endorse any product or service exhibited, nor necessarily support the content contained in the educational offerings.

Insurance/Liability

ACOEM cannot be held responsible for personal injury, loss, damage, accident to private property or additional expenses incurred as a result of delays or changes in air, rail, sea, road, or other services, strikes, sickness, weather, acts of terrorism, or any other cause. All participants are encouraged to make their own arrangements for health and travel insurance.

Disclosure Policy

As a provider accredited by the ACCME, ACOEM must ensure balance, independence, objectivity, and scientific rigor in all of its educational activities. In accordance with the Accreditation

Council for Continuing Medical Education's Standards for Commercial Support, all CME providers are required to disclose to the activity audience the **relevant financial relationships** of the planners, teachers, and authors involved in the development of CME content. An individual has a relevant financial relationship if he or she has a financial relationship in any amount occurring in the last 12 months with a commercial interest whose products or services are discussed in the CME activity content over which the individual has control. In the case of an individual for whom a conflict cannot be resolved, that individual shall not participate in the development or presentation of the CME activity.

Handouts

All handouts submitted by speakers as of March 27, 2017, will be available to conference attendees via a secured area of ACOEM's web site two weeks before and two weeks after the meeting. Registrants will be able to access the site, allowing them to view and print all or any of the submitted handouts.

Download the Conference App!



Be sure to have the app on all your mobile devices. It will enhance your onsite experience and become your go-to source for program details, exhibitor booth list and search, room locator, session handouts and much more. You can access the application by searching in the App Store™ or Google Play™ using the search term ACOEM (scroll down to the AOHC 2017 green icon). You may go this landing page for details: <https://attendify.com/app/2krsrg> or scan the QR code with your mobile device.

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AOHC TECH BAR – Back by Popular Demand!

The place to go for answers to all your tech questions.

With the right strategy in place, health professionals have much to gain by properly using digital media to market their services, share their years of experience and chime in on discussions with colleagues in the industry. Stop by the Tech Bar and experience technology like you never have before! Immerse yourself in all things tech from innovative gadgets, apps and disruptive software. Our tech experts can answer your questions about how to use and effectively integrate technology into your professional world. Learn how you can:

- Be more productive on your smart devices
- Create and share thought leadership content
- Increase engagement with other professionals

LinkedIn CORNER – New This Year!

A new feature designed to improve interactions, build connections and increase engagement.

LinkedIn had a makeover and it's time to take a fresh look at your profile on the updated LinkedIn platform. Transform your understanding of the power of today's LinkedIn, discuss profile Dos and Don'ts, and learn straightforward ways to reposition yourself as an expert and thought leader within your industry. You'll walk away knowing how to:

- Engage your professional network of contacts
- Build connections that are useful and meaningful
- Showcase yourself as a desirable, well-rounded professional
- Share ideas to stand out and be sought out



Open Hours (subject to change):

Sunday, April 23 9:00 a.m. – 6:00 p.m. | Monday, April 24 8:00 a.m. – 5:00 p.m.
Tuesday, April 25 8:00 a.m. – 5:00 p.m. | Wednesday, April 26 7:00 a.m. – 12:00 p.m.

Location

The Tech Bar, featuring the new LinkedIn Corner, is located adjacent to Registration and the Exhibit Hall. Follow the signs!

SESSION INFORMATION

Late Comers – Quiet Please!

And a friendly reminder to please silence cell phones while sessions are being conducted.

And a friendly reminder to please silence cell phones while sessions are being conducted.

Sessions

AOHC sessions offer focused presentations that cover critically chosen, cutting-edge subjects related to OEM competencies. Sessions are designed for OEM physicians and related professionals who practice in a variety of work settings.

Sessions are identified by tracks. The tracks are:

- OEM Clinical Practice
- Management and Administration in OEM
- OEM Education and Scientific Research
- Environmental Health and Risk Management
- Regulatory, Legal, Military, and Governmental OEM Practice

AOHC Poster Presentations and Display

Individual Scientific Abstracts and Resident posters will be on display for viewing beginning Sunday, April 23 inside the ACOEM Exhibit Hall. Poster authors will be available to discuss their research with attendees on April 23 from 4:00pm–5:45pm.

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AOHC Opening Session

The C. O. Sappington Memorial Lecture serves as a forum from which to address major issues in the field of OEM and will take place during the opening session. Highlights will also include the ACOEM Fellow elevation ceremony.

Resident-Friendly Sessions

The following sessions may be of particular interest to residents:

- Sunday: 101, 102, 103, 106, 110
- Monday: 203, 210, 211, 219, 225, 228
- Tuesday: 311, 317
- Wednesday: 403

ABPM Patient Safety Requirement Sessions

The program was reviewed to identify sessions that met the ABPM patient safety requirement. The following sessions have been approved: 108, 215, 222, 303, 308, 310, 312.

Learning Resources

We know you can't be in two places at once, but that doesn't mean you have to miss out on content. Most sessions will be recorded for sale and orders can be placed on-site and after AOHC. Purchase the online library of conference recordings NOW with

your registration and save! For only \$129 you will have online access to all recorded sessions! Special advance price is for online library access; other versions such as MP3, CD, or DVD will be available for purchase onsite and following the conference. In addition, after AOHC, a distance learning package will be available for sale that includes CME and MOC credit. The distance learning package will require purchase of the conference recordings, and by buying them now at the special advance price, you'll be on your way to those hours of additional credit.

Speaker Designation

Speakers who are members of ACOEM are indicated with an asterisk (*) throughout this program. The College would like to take this opportunity to recognize their contributions to ACOEM.

Pre- and Post-Conference Courses

Pre- and post-conference courses are designed to enrich participants' understanding of concepts and issues related to OEM, giving physicians the knowledge necessary to sustain a competitive edge. Content is driven by research, the latest in regulatory issues, and the expertise of the faculty. Pre-registration is strongly encouraged; a separate registration fee is required.

ACOEM Member Hub

Located adjacent to the AOHC Registration area, the ACOEM Member Hub is your one-stop shop where you can:

- Join as a new member* or renew your current membership and get your membership-related questions answered.
- Pick up your Scratch Off Ticket – you may win free registration to AOHC 2018 in New Orleans!
- Browse the ACOEM Bookstore for the latest books on OEM topics that are specifically tied to the Conference Sessions – everyone receives member pricing on books and merchandise!
- Give back to your profession by making a contribution to the Occupational & Environmental Health Foundation (OEHF), the charitable arm of ACOEM that supports Resident scholarships and other causes.
- Learn how to connect with MyACOEM to maximize the benefits and resources available to you as an ACOEM member, including the Idea Marketplace™ and Knowledge Center.
- Get social with ACOEM – learn how to connect with us via our social media outlets.
- Learn how to apply for Fellow status within ACOEM.
- Become familiar with ACOEM's valuable member tools and resources.
- Become educated on where to post open positions and/or your resume on ACOEM's Career Center.
- Have a seat, relax, and collaborate with your peers, away from the crowd.

Your involvement and interest in OEM is what brought you to this conference. Your next step is to join the organization that is responsible for AOHC! Becoming a member of the American College of Occupational and Environmental Medicine (ACOEM) is your next logical move. Whether you are a physician, non-physician, certified physician assistant, licensed nurse practitioner, nurse, medical student, intern, resident or OEM administrator, ACOEM has the tools and resources to enhance your career, expand the scope of your practice and skillset, and strengthen your professional network. Visit ACOEM's Member Hub to learn about membership options.

*Visit the ACOEM Member Hub to learn more about our spectacular conference membership pricing.

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About Wynkoop Brewing and the Social Event

Wynkoop is located in the now-trendy area known as LoDo (Lower Downtown), just steps from Union Station and Coors Field (home of the Rockies). The main level features seating, patios and a large bar, while upstairs you'll find the pool hall with pool tables, dart lanes and shuffle boards. For a closer look at the brewing process, tours will be available which include four tastings along the way!

Registration is required for all persons attending the conference, worksite visits, or other educational or social activities.

The AOHC Registration Desk will be located at the Sheraton Denver Downtown Hotel and will be open from Saturday afternoon, April 23 to Wednesday, April 26 at 11:30am for pickup of confer-

ence badges, schedules, conference materials, and additional registration and conference information.

TRAVEL TO DENVER

Travelers to Denver may choose to fly into Denver International Airport. www.flydenver.com.

TWEET TWEET! AOHC and Twitter

ACOEM will be using Twitter to communicate late-breaking news and announcements regarding AOHC activities. It's easy to follow what's happening at AOHC by simply following this link – <http://twitter.com/aohc>. You can also receive these updates via RSS feeds, SMS text messages using your cell phone, or e-mail.

AOHC OPENING RECEPTION IN THE EXHIBIT HALL

Sunday, April 23, 4:00 – 5:45 pm

Join the ACOEM Board of Directors and the Program Planning Committee for the Opening Reception in the exhibit hall, located across from the AOHC Registration desk in the Plaza Foyer. Network with friends see what exciting products and services the exhibitors are showing, and view the impressive poster presentations. Our food and drink selections will reflect Earth Day and the March for Science, both of which were observed Saturday, April 22 in a park just steps from the Sheraton. Let's Eat from Earth and Sip for Science! ACOEM wishes to thank the AOHC 2017 exhibitors and acknowledge their part in contributing to the success of the conference. Attendees are encouraged to visit the exhibit hall during the following hours:

Sunday, April 23, 2017

4:00 – 5:45 pm

Exhibit Hall Opening and Reception and Resident Abstract Poster Presentation

Monday, April 24, 2017

8:00 am-5:00 pm

Exhibit Hall Open

8:00-8:30 am:

Complimentary Continental Breakfast

11:45 am-1:15 pm:

Complimentary Lunch

Tuesday, April 25, 2017

8:00 am-3:30 pm

Exhibit Hall Open

8:00-8:30 am: Complimentary Continental Breakfast

AOHC's exhibits offer attendees the opportunity to learn about the latest developments in scientific research, pharmaceuticals, equipment, supplies, and medical technology. Time spent in the exhibit hall is as rewarding as attendance at a lecture. Only paid AOHC registrants or paid guest registrants with AOHC badges will be permitted in the exhibit hall.

In fairness to those who have rented exhibit space, it is not permitted to have recruiting devices such as posters, business cards, private hospitality suites, or any other recruiting medium in use during AOHC except by those who are officially listed as exhibitors. Employment agencies and their employees or representatives who wish to enter into recruitment efforts at a future AOHC may contact Melanie Stanton, Education and Development Manager, at mstanton@acoem.org.

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OCCUPATIONAL & ENVIRONMENTAL HEALTH FOUNDATION INFORMATION BOOTH

The Occupational & Environmental Health Foundation (OEHF) is an organization dedicated to keeping all workers healthy and protecting them from injury.

Occupational & environmental physicians have pioneered positive changes to workplace regulations that protect workers: helping to establish child labor laws, limiting working hours, requiring protective equipment and encouraging the use of ergonomic workspaces, among others.

Stop by the OEHF Information Booth to learn more about the Foundation's mission and about how we are spreading information about the benefits of OEM. Your donation to the OEHF is vital in our efforts to develop programs and conduct innovative research in occupational and environmental health. It is through your generosity and support that we will be able to meet our goals and offer meaningful improvements in this field of health.

MEETING HOTEL

Conference Location

Sheraton Denver Downtown Hotel
1550 Court Place, Denver, CO 80202
(303) 893-3333
www.sheratondenverdowntown.com

NAME BADGES ARE REQUIRED FOR ADMITTANCE TO ALL AOHC EVENTS AND MUST BE WORN AT ALL TIMES DURING THE CONFERENCE.

Visitor Information

For more information on Denver, go to www.denver.org/aohc2017

And go to the AOHC web page for additional links and local information.

Conference Cancellations/Changes

Cancellation requests must be received in writing by March 27, 2017. Notification by telephone will not be accepted. A refund will be issued minus an administrative fee of \$50. No refunds will be issued for cancellation requests received after March 27, 2017.

Full Conference Registration

Full Conference Registration admits you to general and concurrent sessions. Additional fees are required for worksite visits and other, certain meal sessions, social events, and other activities as indicated on the conference registration form. Admission to the Wednesday membership meeting and breakfast, while free to conference registrants, requires registration by Monday, April 24 at 10:00am, to allow meal arrangements to be made.

One-day Conference Registration

One-day Registration admits you to concurrent sessions for the day in which you are registered only. Additional fees are required for worksite visits and other activities as indicated on the conference registration form.

Pre-conference Courses

Enrollment is limited. Course registration is separate from conference registration. Lunches are not included.

ACOEM Membership Information

Membership information is available by calling the Membership Department at 847/818-1800, ext. 300, or by visiting the ACOEM web site at [HYPERLINK "http://www.acoem.org/"](http://www.acoem.org/) www.acoem.org or stop by the Membership booth!

Guest Tickets

A registered attendee may purchase a ticket for a personal guest by stopping by the on-site AOHC registration desk or on the pre-registration form. Please note: business colleagues, friends, and family members will not be allowed to enter educational offerings or session rooms without the advance arrangement of AOHC management.

Emergency Contact

Please be sure to indicate your emergency contact information with your registration.

ACOEM Federal ID#

The federal employers identification number (FEIN) for ACOEM is 36-3593614. Some attendees may need this information when requesting funds for payment of conference fees from their employer.

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Special Needs – ADA

AOHC complies with the Americans with Disabilities Act. Please contact us if you have a disability and/or to inform us of any dietary restrictions.

Consent to Use Photographic Images

Registration and attendance at, or participation in, ACOEM meetings and other activities constitutes an agreement by the registrant to ACOEM's use and distribution, both now and in the future, of the registrant, or attendee's image or voice in photographs, videotapes, electronic reproductions and audio tapes of such events and activities.

Registrant Mailing List

Exhibitors are an important part of the conference experience. Even if you don't use particular exhibitors' products, their participation supports necessary conference costs which helps offset your registration fee and allows ACOEM to provide a better conference experience for you.

The main benefit for exhibitor participation is access to you – onsite as well as before and after the conference. We provide exhibitors with a list of registrants for their use in contacting you to encourage you to visit their booth. Some offer discounts in their promotional message – another benefit to you. Exhibitors are limited to emailing registrants once before and once after the conference and are not allowed to add your information to their contact database for use beyond AOHC 2017.

We appreciate your understanding and support of this common conference practice. If you prefer to have your name removed from the list provided to exhibitors, you may opt out during the registration process. In addition, just prior to the conference, we will make available to conference registrants only, a list of those who are attending – name and company, no address or contact information will be shared. This is a popular feature and facilitates the all-important networking that is so valuable at AOHC.

CONTACT INFORMATION

ACOEM Headquarters

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Elk Grove Village, IL 60007
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Fax (Registration): 847-818-9265
E-mail: registration@acoem.org

Conference Management

Joyce Paschall, CAE, CMP, Director of Education
E-mail: jpaschall@acoem.org
Telephone: 847-818-1800 ext. 367

Mary Lunn, Conference Coordinator
E-mail: mlunn@acoem.org
Telephone: 847-818-1800 ext. 393

Melanie Stanton, Exhibits Coordinator
E-mail: mstanton@acoem.org
Telephone: 847-818-1800 ext. 306

ACOEM LEADERSHIP

Board of Directors – 2016-2017

Officers

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Jill Rosenthal, MD, MPH, MA, FACOEM

Designated Observers – 2016-2019

Catherine M. Champi, BC, CRNP, MSN, NP-C

Jack Lasoski, PA-C, MPAS

House of Delegates – 2016-2017

Speaker

Nelson S. Haas, MD, MPH, MA, FACOEM

Speaker-Elect

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Recorder

Darryl Lesoski, MD, MPH, FACOEM



Board of Directors

2017 AOHC Program Planning Committee

Chair

Francesca K. Litow, MD, MPH, MRO, FACOEM

Committee Members

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Brian C. Svazas, MD, MPH, FACOEM

Melanie D. Swift, MD, FACOEM

Craig D. Thorne, MD, MPH, FACOEM

Virginia M. Weaver, MD, MPH, FACOEM

Advisory Panel

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Mark J. Boquet, MD, MPH, MS

Robert M. Bourgeois, MD, MPH, FACOEM

Alisa M. Koval, MD, MHA, MPH

James A. Tacci, MD, MPH, JD, FACOEM

Roxana Z. Witter, MD, MS, MSPH

INDIVIDUAL SCIENTIFIC AND RESIDENT ABSTRACTS

Resident and Individual Scientific Abstract Posters

Posters will be on display beginning Sunday, April 23 in the exhibit hall. Poster authors will be available to discuss their research on Sunday, April 23 from 4:00pm-5:45pm.

Resident Posters: 101-160 | Individual Scientific Posters: 202-229

Shuchi Agarwal, MD, MPH

Abstract 101: Sit-Stand Workstations and Impact on Lower Back Discomfort: A Systematic Review and Meta-Analysis

Shuchi Agarwal, MD, MPH

Abstract 102: Silicosis in a Gold Miner

Al Ismail Hashem, MD

Abstract 103: Predictors of Nurse Absenteeism

Abdulrahman Al Naeem, MD

Abstract 104: Prevalence of Job Related Injuries among Construction Workers

Nima Alipour, DO, MBA

Abstract 105: Efficacy of Early Intervention with Manual Therapy in Acute Occupational Low Back Pain on Overall Case Duration

Waleed Mohammed, MD

Abstract 106: Fatigue Among Military Pilots in Aeromedical Center of Dhahran, Saudi Arabia

Ammar A. Alrudayan, MD

Abstract 107: Date Palm Packers Hand Dermatitis

Malak A. Alsadah, MD

Abstract 108: Effect of Shift Work and Effort Reward Imbalance on GI symptoms among Nurses

Ali Alshomrani, MD

Abstract 109: How Many Peak Flow Efforts Are Needed?

Khalid Badr, MBBS

Abstract 111: Occupational Mortality among General Organization for Social Insurance (GOSI) Participants, Dammam, Eastern province, Kingdom of Saudi Arabia.

James Bencivenga, MD

Abstract 112: Evaluation of a diabetes incentive program for diabetic employees of a multispecialty medical group

Sarah J. Bronner, MD

Abstract 113: Residency Website Redesign Using Quality Improvement Methodologies, Residency Website Redesign: Application of Quality Improvement Methodologies

Aisha Chaudhry

Abstract 114: Evaluation of a fifteen-year community monitoring program

Michael Deveau, MD

Abstract 115: Analysis of Ambler, PA death certificates from a 1930's cohort to determine mortality experience of asbestos related diseases

Michael J. D'Onofrio, MAJ, MD, MPH

Abstract 116: Lead Intoxication of a 47 Year Old Male

Ada Egbuji, MD

Abstract 117: The Flu Shot Clinic Program at McHarry Medical College Employee Health Clinic: A Quality Improvement Project

Ronald Figueredo, MD

Abstract 118: Back Muscle Endurance As Measured by Ito Test Duration

Hiroko Furo, MD, PhD

Abstract 119: Biomarkers of Cadmium Exposure: Systematic Review

Paul Hendricksen, MD

Abstract 121: Characterization of emergency department utilization among active duty service members in the San Antonio Enhanced Multiservice Market

George J. Hnath, DO

Abstract 122: A Descriptive Analysis of Skin Disease Reported Aboard the Hospital Ship USNS Comfort During the Humanitarian Mission, Continuing Promise 2011.

Jose Jeune, MD

Abstract 123: Need for Federal Motor Carrier Safety Administration Guidelines on Obstructive Sleep Apnea

INDIVIDUAL SCIENTIFIC AND RESIDENT ABSTRACTS

Nathan M. Jones, BS, MS

Abstract 125: Estimating the Cost of Agricultural Morbidity in Maine and New Hampshire

Crystal Maria Jones, MD, MPH

Abstract 126: Assessment of Medical Student Knowledge of the field of Occupational and Environmental Medicine

Sangeeta Kaushik, MD, MPH

Abstract 127: Acid Injuries Reported to OSHA's Severe Injury Reporting System, January 2015 to December 2016

Shaadi Khademi, MD

Abstract 128: Assessment of Sun-Safety Behaviors and Knowledge of Sun Protection and Skin Cancer in the Farmworker Population of South Texas

Boris Kholdarov, MD

Abstract 129: Sharps Injuries and Bloodborne Pathogen Exposures: An Analysis Within a Large Biomedical Institution

Hyeongdo Kim, DO

Abstract 130: First-aid training to address the high rates of injury among workers in the Montana logging industry

Edward H. Lee, MD, JD, MPH

Abstract 131: Laboratory Animal Bite Anaphylaxis - A National Survey

Brian Linde, MD

Abstract 133: Evaluation of a Wellness Visit Program to Prevent Burnout in Internal Medicine Residents

Brenden Matus, MD, MPH

Abstract 134: Evaluation of hearing hazards and implementation of a hearing loss protection program at a Guatemalan sugar manufacturing company

Erin McLaughlin, MD

Abstract 135: A case of pulmonary fibrosis in a worker exposed to glass-reinforced plastic

Daphney Myrtil, MD, MOH

Abstract 136: The Effect of Health Coaching on Cholesterol Profiles in Firefighters

Natasha Narayan, MD, MPHc

Abstract 137: Treatment Outcomes of Corticosteroid Injection versus Physical Therapy and NSAID use alone for Sacroiliac Joint Pain in Work-Related Injuries

Esi W. Nkyekyer, MD

Abstract 139: Opioid and Benzodiazepine Use and Risk of Occupational Injury

Christina O'Hara, MD

Abstract 140: The Risk of Pregnancy Related Hypertensive Disorders Associated with Sickle Cell Trait in U.S. Service Women

Chinyere Omeogu, MD, MPH

Abstract 141: Efficacy of A Mobile Behavioral Intervention For Workers With Insomnia

Laís Paporotti

Abstract 143: Retrospective Study of the Profile of Employees Victims of Work Accidents in Benefit by Disability Submitted to the Previous Medical Record

Suvag Patnaik

Abstract 144: Knowledge Attitudes and Perceptions about Zika Virus Disease at a Historically Black School and College

Andrew Phillips, MD, MOH

Abstract 147: Breastfeeding and the Workplace: Does job category affect length of breastfeeding?

Luiz Felipe Tolentino Priester

Abstract 149: Evaluation of the International Classification of Functioning, Disability and Health for the Assessment of Disability among Brazilian Disability Benefits

Scott M. Riester, MD, PhD

Abstract 150: Incidence of rheumatoid arthritis among World Trade Center responders

Scott M. Riester, MD, PhD

Abstract 151: The composition of a contemporary occupational medicine practice

Oscar L. Sanders, MD

Abstract 153: Emergency preparedness and first-aid training to enhance safety culture in the Logging Industry of the Intermountain United States

Yusef Sayeed, MD, MPH, Meng

Abstract 154: Successful treatment of Cervical Facet Joint Pain using Platelet Rich Plasma-A Novel Case Report

Tyson Schwab, MS

Abstract 155: Job Satisfaction and Shoulder Impingement Syndrome

INDIVIDUAL SCIENTIFIC AND RESIDENT ABSTRACTS

Fatima Sheikh, MD, MS

Abstract 156: Accidental Laboratory Exposure to Burkholderia Pseudomallei: Prevention, Precautions, and Post-Exposure Protocol

Aditi Vyas, MD

Abstract 157: Seeing is Believing: Eye Straining Reducing Glasses in Radiology

Aditi Vyas, MD

Abstract 158: Pedal to the Metal: Under Desk Cycles in Radiology

Rex Spencer Watson, MD, MS, MOH

Abstract 159: The Effect of Auricular Acupuncture on Grip and Fine Pincer Strength, Blood Pressure/Pulse and Forearm Blood Flow: A Sham-Controlled, Randomized, Double-Blinded, Crossover Study

Osama Zeinalabidin

Abstract 202: Study of Skin Disorders Among Health Care Workers using latex gloves in Alexandria main university hospitals

Ulas Cinar

Abstract 204: Investigation of Usability of Recycled Materials in Protective Earmuffs

Hisashi Eguchi

Abstract 207: Psychosocial factors and co-worker perceptions of return-to-work opportunities for workers with a mental health issue: A Japanese population-based study

Luciano Resende Ferreira, MD, MSc, PhD

Abstract 208: Caregiver Burden of Chronic Disease Patients Followed by a Homecare Service in Brazil - Preliminary Results

Luciano Resende Ferreira, MD, MSc, PhD

Abstract 210: Smoking and Pulmonary Alterations in Retired Bauxite Mining Workers: A Retrospective Study

Elizabeth Frenzel, MD, MPH

Abstract 211: Association of Increased Influenza Vaccination in Health Care Workers (HCW) with a Reduction in Nosocomial Influenza Infections in Cancer Patients

Ximena P. Garzon-Villalba, MD, PhD, CPH

Abstract 212: Ability to Discriminate Between Sustainable and Unsustainable Heat Stress Exposures. Part 1: WBGT Exposure Limits

Nathan Gross, PhD, MSN, RN

Abstract 213: The Effect of Delayed Injury Reporting on the Occurrence of Restricted and Lost Work Days

Mason D. Harrell III, MD, MPH

Abstract 214: Infection rates and risk factors for infection in healthcare workers during Ebola and Marburg virus outbreaks: A systematic review of the literature

Craig Karpilow, MD, MPH, MRO, DME, FACOEM

Abstract 216: Decrease in Musculoskeletal Complaints in the Workplace with Improved Sleep Hygiene

Maria Korre

Abstract 217: Confirmation of the Effect of Body Mass Index on Left Ventricular Mass in Career Male Firefighters

John M. Mayer, DC, PhD, CCRP

Abstract 219: Departmental Variations in Wellness, Fitness, and Occupational Injury Characteristics of Firefighters

Katie McBee, PT, DPT, OCS, MS, CEASII

Abstract 220: Integrating Behavioral Coaching for Modifiable Psychosocial Risk Factors Into A First Aid Program for the Prevention of Work Related Musculoskeletal Disorders: A Case Study

Luke Mease, MD, MPH, FACOEM

Abstract 221: Pupillometer Use Significantly Influences Accuracy and Precision of Pupil Measurement in an Occupational Medicine Setting

Tomohisa Nagata, MD

Abstract 222: Total burden of presenteeism, medical and pharmaceutical cost

Sudha P. Pandalai, MD, PhD, MS

Abstract 223: The OCCHLTH Questionnaire - A Tool for Detecting Occupational Illness and Injury in the Primary Care Setting

Robert M. Park, MS

Abstract 224: Risk Assessment for Toluene Diisocyanate (TDI)

Kristine S. Robinson, MD

Abstract 226: Work-Related Repetitive Use Injuries in Ultrasound Fellows

June Hart Romeo, PhD, NP-C

Abstract 227: Establishing Valid Sound Pressure Level Measurements in Orchestra Musicians

INDIVIDUAL SCIENTIFIC AND RESIDENT ABSTRACTS

Jeremy Rowell, MD

Abstract 228: Characteristics of Emergency Department Visits for Work-Related Injuries

James B. Stephenson, MD

Abstract 229: Back Injured Employees and Physical Therapy: Expediting Return to Full Duty Work

Resident Research Oral Presentations

The following abstracts will be presented at the podium during Session 210, "Resident Research Abstract Presentations," on Monday, April 24, 2017 at 8:30am-12:00pm.

Craig Paul Anderson, DO

Abstract: 110: Gastrointestinal Health Effects among Coast Guard Responders of the Deepwater Horizon Oil Spill

Brent Jones, MD, MHI

Abstract: 124: Pre-Exertion Predictors of Heat-Related Illness

Pearlene Lee, MD

Abstract: 132: Healthcare Violence in the Department of Labor Datasets

Remington L. Nevin, MD, MPH, DrPH

Abstract: 138: Industry Sources of Population Risk Associated with Reports of Occupational Finger Amputations: Results of an Analysis of OSHA Severe Injury Report Data

Mellisa Pensa, MD, MPH

Abstract: 145: Opioid Prescription Patterns Among an Industrial Cohort and Factors Associated with Chronic Opioid Use

Gabriel C. Pepper, MD

Abstract: 146: Use of Military Occupational Codes to Estimate Inhalational Exposures in Military Deployers

Charles F. Prezgia, MD, MOH

Abstract: 148: Prediabetes and Undiagnosed Diabetes Mellitus among Commercial Motor Vehicle Drivers

Dwayne Wilson, MD

Abstract: 161: Ability of the Physiological Strain Index to Discriminate Between Sustainable and Unsustainable Heat Stress Exposures

ACOEM ANNUAL AWARDS

Lifetime Achievement in Occupational and Environmental Medicine Award

Created in 1938, this lifetime achievement award is the highest honor bestowed in occupational and environmental medicine (OEM). It recognizes an individual who has had a distinguished career in one or more disciplines of occupational medicine, environmental medicine, and/or environmental health.



Catherine M. Baase, MD, FACOEM, of Indian River, Mich., and retired Chief Health Officer and Global Director of Health Services for The Dow Chemical Company in Midland, receives the highest award in occupational and environmental medicine for her leadership and outstanding contributions to the specialty. Specifically, Dr. Baase is recognized

for her vision as a proponent of workplace health and wellness and for her longstanding contributions to the field of health and productivity on a global basis. Recognized as one of the nation's experts in the field of global health and productivity, Dr. Baase's leadership has contributed greatly to the literature and scientific studies documenting the positive impact of quality workplace wellness programs. Dr. Baase is a long-time member of the ACOEM Health and Productivity Section and a former member of the Editorial Board of the *Journal of Occupational and Environmental Medicine*.

Excellence in Education or Research in Occupational and Environmental Medicine Award

This lifetime achievement award is presented to an individual for significant contributions to academic excellence or research in the disciplines of occupational medicine, environmental medicine, and/or environmental health.



Timothy M. Mallon, MD, MPH, MS, FACOEM, receives this award for his distinguished career as an educator and researcher in OEM. A nationally recognized leader, Dr. Mallon has extensive expertise in military medicine, and is a Colonel in the United States Medical Corp. As OEM specialty advisor to the Army Surgeon General, he guided the

development of a new residency program at Madigan Army Medical Center and a new joint Navy and Army OEM residency at the Aerospace Medicine Institute in Pensacola. He is also Associate Professor and National Capital Consortium OEM

Residency Director for the Uniformed Services University of the Health Sciences in Bethesda, Md. As Residency Director, he has been instrumental in expanding the OEM training pipeline during an era of critical need. A renowned educator, Dr. Mallon has also participated or is currently participating in six funded grants. He is the author of 17 peer-reviewed journal articles and has authored two textbook chapters in the *Textbook of Military Medicine in Occupational Medicine*.

Health Achievement in Occupational Medicine Award

Created in 1948, this award recognizes an ACOEM member(s) for a specific, unique achievement in occupational and environmental medicine.



This year's Health Achievement Award is presented jointly to **Richard Heron, MB, ChB, FACOEM**, and **Ronald R. Loeppke, MD, MPH, FACOEM**. Dr.

Heron is vice president of health and chief medical officer at British Petroleum in England, and Dr. Loeppke is vice chairman of U.S. Preventive Medicine in Brentwood, Tenn. They are recognized for their leadership and vision in co-founding the International Occupational Medicine Society Collaborative (IOMSC) in 2013, a medical/scientific organization created under the auspices of ACOEM (Dr. Loeppke) and the United Kingdom's Society of Occupational Medicine (Dr. Heron). IOMSC provides an assembly for representatives of OEM societies world-



wide to address and collaborate on issues of concern, to focus on opportunities to advance the specialty, and to promote the provision of evidence-based occupational medicine. Under their leadership, IOMSC has grown from 18 original societies to currently 32 societies with representatives from six of the seven continents.

ACOEM ANNUAL AWARDS

Meritorious Service Award

This award was established in 1945 to recognize an ACOEM member who has provided meritorious service to the College.



Constantine "Dean" J. Gean, MD, MS, MBA, FACOEM, Regional Medical Director for Liberty Mutual Insurance Company in Glendale, Calif., receives this award for his dedication and many years of support to ACOEM projects, specifically for his strategic leadership, vision, and guidance in implementing ACOEM's Learning Management System, the development of the ACOEM Teaching Academy video resources, and the production and direction of the online Foundations Program. Dr. Gean is also cited for his leadership as chair (2014-2016) and co-chair (2016-2018) of the Council on Education and Academic Affairs. In addition, he is a member of the Council on Public Affairs, and was a former member of the ACOEM Board of Directors (2011-2014).

Kammer Merit in Authorship Award

This award is named for Adolf Kammer, MD, the first editor of the Journal of Occupational and Environmental Medicine (JOEM). It recognizes the most outstanding article/contribution published in JOEM during a given year.



Harvey Checkoway, PhD, lead author; Linda D. Dell, MS; Paolo Boffetta, MD; Alexa Gallagher, PhD; Lori Crawford, MS; Peter S.J. Lees, PhD; and Kenneth A. Mundt, PhD, receive this award for their research on "Formaldehyde Exposure and Mortality Risks From Acute Myeloid Leukemia and Other Lymphohematopoietic Malignancies in the US National Cancer Institute Cohort Study of Workers in Formaldehyde Industries," which appeared in the July 2015 issue of *JOEM*.

This research focuses on the associations between cumulative and peak formaldehyde exposure and mortality from acute myeloid leukemia and other lymphohematopoietic malignancies which represent a significant and increasing health burden for society. The study is cited for being rigorously designed/ executed and well written. It produced results that have great potential for impact in the field.

2017 Resident Research Presentation Awards

Craig Paul Anderson, DO
Brent Jones, MD, MHI
Pearlene Lee, MD
Remington L. Nevin, MD, MPH, DrPH
Mellisa Pensa, MD, MPH
Gabriel C. Pepper, MD
Charles F. Prezzia, MD, MOH
Dwayne Wilson, MD

2017 AOHC Resident Scholarship Recipients

Mellisa Pensa, MD, MPH
Michael J. D'Onofrio, MD
German L. Ellsworth, MD, MPH, MOH
Hiroko Furo, MD, PhD
Krishna Baumet, MD
Remington L. Nevin, MD, MPH, DrPH
Brian J. Linde, MD
Andre Montoya-Barthelemy, MD
Daphney Myrttil, MD
Reza Peymani, MD

2017 Public Safety Medical Special Interest Section Scholarship Recipients

Nathan Jones, BS
Charity Russell, MD
Maria Korre, ScD
Dwayne Wilson, MD

FELLOWS AND NEW BOARD MEMBERS

New Fellows – Class Of 2017

Daniel A. Bakston, MD, MPH, FACOEM
Elizabeth W. Bisgard, MD, MPH, FACOEM
Joseph L. Charlot, Jr., MD, MPH, FACOEM
Gerard P. de Guzman, MD, MPH, FACOEM
Cristina Demian, MD, MPH, FACOEM
Aquaeno E. Ekanem, MD, FACOEM
Malgorzata B. Hasek, MD, MPH, FACOEM
Kevin D. Johnson, DO, MPH, FACOEM
Peter N. Low, MD, MS, FACOEM
Shawn M. Olson, MD, FACOEM
Norman C. Quesada, MD, MPH, FACOEM
Eric A. Schaub, MD, MPH, FACOEM
Herman O. Spanjaard, MD, FACOEM
Christopher Westra, MD, MPH, FACOEM
Devin A. Wiles, DO, MPHTM, FACOEM
Greg Vanichkachorn, MD, MPH, FACOEM

Incoming BOD and HOD Officers

Officers – 2017-2018

President – Charles M. Yarborough, III, MD, MPH, FACOEM
President-Elect - William G. Buchta, MD, MPH, MS, FACOEM
Vice-President – Stephen A. Frangos, MD, MPH, FACOEM
Secretary/Treasurer – Beth A. Baker, MD, MPH, FACOEM
Immediate Past President – James A. Tacci, MD, JD, MPH, FACOEM

Directors – 2015-2018

Richard F. Johnson, MD, MPH, FACOEM
Paul J. Papanek, MD, MPH, FACOEM
Daniel G. Samo, MD, FACOEM

Directors – 2016-2019

Melissa A. Bean, DO, MBA, MPH, FACOEM
James W. Butler, MD, MPH, FACOEM
Jill A. Rosenthal, MD, MPH, MA, FACOEM

Designated Observers – 2016-2019

Catherine M. Champi, BC, CRNP, MSN, NP-C
Jack Lasoski, PA-C, MPAS

Directors – 2017-2020

Robert M. Bourgeois, MD, MPH, FACOEM
David W. McKinney, MD, MPH, FACOEM
Tanisha K. Taylor, MD, MPH, FACOEM

Young Physician Director – 2017-2020

Kenji Saito, MD, JD

House of Delegates – 2017-2018

Douglas W. Martin, MD, MRO, FACOEM - Speaker
Darryl F. Lesoski, MD, MPH, FACOEM – Speaker-Elect
Scott Levy, MD, MPH, FACOEM - Recorder