



# THE PROFESSIONAL ERGONOMIST

Fall | Winter  
2016

*The Newsletter of the Board of Certification in Professional Ergonomics*

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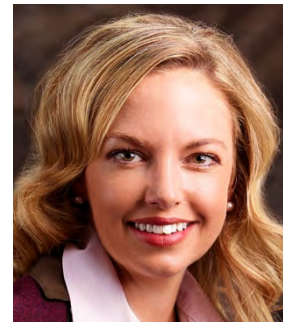
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## President's Message

by Rachael Michael MSc, CPE

*President*

2016 has been a year of growth and change for BCPE; the strategic plan and environmental scan were updated and the core competencies of a certified professional were revised. The process of core competency development includes validation but ours were also independently validated. The exam, testing the knowledge of our emerging professionals, moved out of early phases to implement as an electronic exam and a fully revised version, based on the recent update of core competencies. Psychometrics and exam statistics, which are required for accreditation, showed a robust and valid exam. These were important steps in our need to make the certification process viable, unbiased and relevant.



We also completed a survey of YOUR experiences with the BCPE and your certification. Thank you for taking the time to complete the survey which gave us valuable insight. I want to assure you that while things will not always move quickly at BCPE, YOU are our greatest value and we heard you!

We heard that our certificate holders are passionate about their profession and take pride in having accomplished a solid review of their knowledge and skill which resulted in BCPE certification. Thank you for sharing that with us.

We also heard that we have a lot to improve upon.

You value increased marketing on the significance of your certification to the general public, industries and employers. You value efforts to advocate for certification being a requirement for leading complex projects or designing standards. You value materials that showcase the differentiation between BCPE certification and other certificate courses. You value seeing opportunities for continuing education and opportunities to connect with the BCPE and with others in your profession. And...you'd like to see us get a bit more up to speed with the modern technological times.

Here are some examples of what we are doing to bring continued value to your certification. Please connect with us to share how we can keep improving.

### Value of Certification

- At our annual meeting, the Board voted to create a number of targeted official liaison positions. With these positions we will seek to have a consistent voice for BCPE at professional and industry based groups and boards. The liaison positions will be asked to communicate advocacy opportunities with BCPE and present the benefits of BCPE certification within that group. Please let us know if you are part of a board or industry group that you would like considered.
- We have worked with industry conferences to highlight certification and those presentations or contributions being made by certified individuals. If you attended the recent National Ergonomics Conference you will have noticed the BCPE logo and shield next to certified speakers in the conference programming.
- A white paper discussing the value of certification in the job market, a summary of the BCPE certifications and the certification qualifications and requirements are available in the Downloads section of the website. Use these as talking points with your employer, group or clients. <http://www.bcpe.org/how-to-certify/downloads/>

## Grow and Connect

- You can view a list of upcoming conferences, webinars, short courses, and other educational opportunities at <http://www.bcpe.org/why-certify/resources/>. If you know of some that we are missing, please let us know.
- We recently re-launched our social media presence with pages in Wikipedia, LinkedIn and Facebook. LinkedIn is the most active of these. Please connect with BCPE and others here: <https://www.linkedin.com/groups/8307857>
- Realizing that many people today prefer to use a video based platform to share information and ideas, we are in the process of finalizing video showcasing what a career in Human Factors, Ergonomics and User Experience looks like. We have also updated our website to allow for video posting in the News section. In 2017 we would like to be able to showcase the work, experience and passion of more of our certificate holders with an ongoing video series.

I would also like to assure you that your board at BCPE is as diverse and passionate as you are. We come from different backgrounds and have varied certifications and careers in this profession. You can get to know your Board and the Executive Staff at various industry events or through the website at <http://www.bcpe.org/about-bcpe/board-and-staff/>. I welcome anyone with suggestions, criticism or energy for engagement to contact me at [rachel.michael@aon.com](mailto:rachel.michael@aon.com). We look forward to connecting with you in 2017!

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## BCPE 2016 Practitioner Survey – Observations and Update

We continue to review and act upon feedback from the March 2016 Practitioner Survey. A primary concern expressed was about augmenting and promoting the value of the BCPE and professional certification. To this end, BCPE continues to increase its outreach and visibility.

- We have revised and relisted our Wikipedia page at: [https://en.wikipedia.org/wiki/Board\\_of\\_Certification\\_in\\_Professional\\_Ergonomics](https://en.wikipedia.org/wiki/Board_of_Certification_in_Professional_Ergonomics)
- You can also connect with us on Facebook: <https://www.facebook.com/BCPEpage/>
- And you can also find us at LinkedIn: <https://www.linkedin.com/groups/8307857>
- Expanding international recognition with a remote exam in Indonesia
- Expanding presence at more conferences and in different domains.

Here are some observations from certified professionals about the value of BCPE certification.

- 44% of BCPE Certified Professionals have other certifications. Professional certification is important to employers, clients, and us.

- 92% of BCPE Certified Professionals who have other certifications believe that their BCPE certification is better than or equal to other certifications that they hold. BCPE certification is at least as valuable to employers, clients, and you as other certifications.
- 80-90% of BCPE Certified Professionals have performed, are performing, or anticipate performing Human Factors, Ergonomics, and User Experience work.
- 85% of BCPE Certified Professionals perceive Human Factors, Ergonomics, and User Experience as synonymous and/or overlapping.

Because of these findings, it is essential for our community to be able to explain the importance of certification and each of the certification designations (CHFP, CPE, CUXP) using authoritative sources for definitions. An example of an authoritative source is ISO (International Organization for Standardization) definitions for Human Factors, Ergonomics, and User Experience at <https://www.iso.org/obp/ui/#iso:std:iso:9241:-210:ed-1:v1:en> (search for the terms).

We look forward to expanding our communication with you with more feedback on our actions in response to the survey. If you have any questions or comments, please contact BCPE Director R.J. (Bob) Torres [rjtorresdfw@hotmail.com](mailto:rjtorresdfw@hotmail.com)

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## Annual Meeting Highlights

The BCPE Board of Directors held their 2016 Annual Meeting in Washington, DC on September 23 and 24, towards the end of the Human Factors and Ergonomics Society Annual Meeting. The agenda for this meeting focused on enhancing sustainability. The following summarizes the meeting reports and activities.



Left to right: Carol Stuart-Buttle, Robert Torres, Jeff Kelley, Michael Boggi, Kris Rightmire, Joe Cohen, Rachel Michael, Matt Pierce, Cindy Whitehead, Jeff Fernandez, Cynthia Rando, and Paul Green.

- From the beginning of the year to meeting date, there were 74 applications, 22 Professional, 40 Associate and 12 transition applications, which indicates there will be an overall increase this year.

- There was a discussion about liaisons and certificants representing BCPE on committees and amongst other groups. Liaisons will be formalized and guidelines developed so liaisons report back to BCPE.
- Vice-President Joe Cohen recapped the strategic planning effort that the Board has been working on throughout 2015. The Board revisited the Core Values for the BCPE (Value, Visibility, Viability and Validity), which drive the strategic objectives, strategies, goals, and committee work.
- The Board committees were restructured for increased emphasis on certification/exam. The committees are now Certification, Communication & Media, Accreditation, Nominations and Executive Committee.
- The Board voted on 2016 Executive Committee and made committee appointments.

### Activities at the 2016 HFES Washington DC Meeting

- BCPE hosted the Student Lounge for a day during the HFES Annual Meeting. Approximately 20 students stopped by to meet the Directors and learn about the BCPE. BCPE President Jeff Fernandez gave an overview of the BCPE to students, focusing on the value of certification and the path to AEP.
- A BCPE booth was continuously staffed all week in the exhibitors' hall at the HFES conference due to the many certificants who generously volunteered their time. The booth drew many prospective candidates who were engaged into enthusiastic conversation by the volunteers.  
**Thank you.**
- The Annual BCPE reception at the HFES Annual Conference was well attended. The catered networking event at the conference hotel welcomed all certificants and those interested in becoming certified. Thanks to all of you who came by. The Dieter W. Jahns Student Practitioner Award was presented to this year's winners by FPE President Bob Smillie and Karel Jahns, FPE Director and wife of late Dieter W. Jahns.



## Awards During Annual BCPE Reception

### Dieter W. Jahns Student Practitioner Award

Congratulations to Hyungil Kim, winner of the 2016 Dieter W. Jahns Student Practitioner Award from the Foundation for Professional Ergonomics, a nonprofit organization dedicated to advancing professionalism in ergonomics. Kim, is doctoral student in the Industrial and Systems Engineering Department at Virginia Tech University. The award included a \$1,000 check and complimentary registration for the Annual Meeting.



*Karel Jahns, wife of the late Dieter Jahns, presents the 2016 Dieter W. Jahns Award to Hyungil Kim.*

Kim's project, entitled "Virtual Shadow: Making Cross-Traffic Dynamics Visible Through Augmented Reality Head-Up Display" resulted in the development of an augmented reality (AR) pedestrian collision-warning interface that is compatible with the driver's cognitive process and the physical reality of driving. This work demonstrates the incorporation of ecological interface design (EID) with AR interfaces. Kim stated, "I really appreciate this prestigious honor. This is one of the greatest honors from my entire life so far! I believe that this recognition will strongly encourage me to keep working on my journey to human factors and ergonomics and pursuing quality research outcomes with confidence."

A Certificate of Appreciation was given to the runner-up Preethi Srinivas, a student at the Indiana University School of Informatics and Computing. Her project was "Examining the Role of Patient Information in Text Messages for Managing Technology-Mediated Interruptions in the Intensive Care Unit." Srinivas' advisor, Richard J. Holden accepted the certificate on her behalf.



*Dr. Richard Holden accepting a 2016 Certificate of Appreciation on behalf of Preethi Srinivas, his student.*

BCPE thanks Robert J. Smillie, PhD, CPE, CIEHF for providing this article.

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## Meet Our Directors

### Incoming Directors

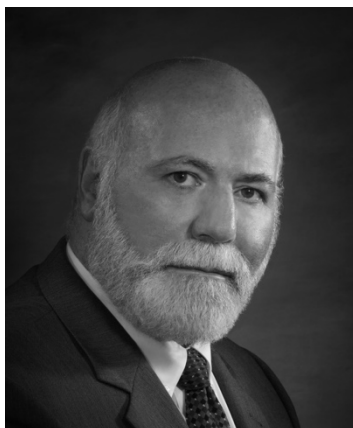
We welcome two new Directors to the BCPE board who started their term in the Fall of 2016, Cynthia Rando, MS, CHFP and Michael Boggi, MS, CHFP. Fadi Fathallah, PhD, CPE was voted in for a second term on the Board.



#### **CYNTHIA RANDO**

Cynthia Rando is the Founder/CEO of Sophic Synergistics, LLC, a consulting firm that focused on optimizing human performance and experience in any environment. She has spent 15 years in the field of Human Centered Design including 12 years at NASA's Johnson Space Center in Houston, TX. During this time she provided extensive leadership to the organization addressing several critical areas in Human Factors and Human Centered design including: interface design, ergonomics, safety and risk mitigation strategies, usability and user experience, accident investigation and root cause analysis activities. Additionally, she was instrumental in implementing several culture change initiatives and innovative solutions for the agency including: the U.S. Government's first use of crowdsourcing as a disruptive business model and the development of the Center of Excellence for Collaborative Innovation and the NASA Human Health and Performance Center.

Cynthia is a Certified Human Factors Professional and received her B.S. and M.S. in Human Factors Engineering from Clemson University and an MBA from Northeastern University. She has served as an associate professor at University of Houston Clearlake providing instruction in Human Factors and Ergonomics course material. Currently, she provides Human Centered Design and Human Factors consultation to the Texas Medical Center Innovation Incubator's medical device startup cohorts.



#### **MICHAEL BOGGI**

Mr. Boggi is principle at Human Factors Analysis & Design. He has an extensive background in applied human factors and usability analysis, design and testing in highly regulated environments for both hardware and software systems. Mr. Boggi has been a consultant on over 250 projects. As a private sector business owner and technical expert, experienced at establishing and leading human factors programs and mentoring other human factors professionals. As a public sector researcher and technical expert experienced at proposing human factors research, leading the Nuclear Regulatory Commission's (NRC) Fitness For Duty program (10 CFR Part 26), writing, planning and implementing rule-making with extensive public involvement.

Michael is author of the IEEE Nuclear Power Engineering Committee's Subcommittee 5 internal guidance for writing an IEEE Standard, reducing the time it takes to publish an IEEE Standard from 12+ years to 3-4 years. He authored the NRC's interim staff guidance for Computer Based Procedures. Michael also led the development of the NRC's inspection review criteria for Degraded Digital Instrumentation and Controls and led the development of the NRC's guidance for Human Factors Considerations in New and Advanced Reactors. He has authored four IEEE Standards.

### 2017 BCPE Executive Committee

On September 24, 2016 at the annual meeting, the BCPE Directors elected the 2017 Executive Committee:

President	Rachel Michael, MSc, CPE
Vice President	Cindy Whitehead, MHS, CPE
Secretary	Jeff Kelley, PhD, CUXP
Treasurer	Robert Torres, MS, CUXP

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## Certification and Exam Status

### Certificant Totals

Through December 7, 2016 there were 1336 certifiants:

908	Professional Certifiants
205	Associate Certifiants
168	Retired Certifiants (Professional and CEA)
55	Certified Ergonomics Associates (CEA)

### Examination

The Fall exam was the first exam based on the new core competencies. The new core competencies were derived from a Subject Matter Expert (SME) meeting and validated by a job analysis survey in 2014-2015. Exam questions are balanced across the core competencies based on the outcome of the importance and criticality of the topic as determined by the job analysis survey.

The psychometrician consultant that BCPE hires for all exam-related analyses also analyzed the new exam. Each item is analyzed and the exam is equated with the previous exams so that it is no harder or easier than the previous exams. The BCPE exam reflects core knowledge and skills across the profession, which can be a challenge for candidates. The successful candidate is understandably proud to hold our professional designation.



Summary of fall exam session in 2016.

Applicant	# Candidates	# Passed	% Passed
Professional & Associate to Professional	33	9	27

The average pass rate for the two exams, Spring and Fall, in 2016 is 36% with a total of 19 candidates passing the exam in 2016.

### New Certificants

Congratulations to 9 candidates who successfully passed the fall exam and obtained Professional Certification. Since the last newsletter (7.6.16) to December 6, 2016, we welcome 18 new Associate Certificants, one of which was reinstated.

#### New Professional Certificants:

Hardianto Iridiastadi, PhD, CPE  
 Menglu Li, MISE, CPE\*  
 Thurmon E. Lockart, PhD, CPE  
 Gregory F. Marchetti, PhD, CPE  
 Carrie R. McEwan, MS, CHFP\*  
 Paul D. McKay, MAsc, CHFP  
 Danielle M. Mundle, MS, CUXP\*  
 Leslie J. Pickett, DPT, CPE  
 Yassierli, PhD, CPE

\* Associate to Professional transition

#### New Associate Certificants:

Marissa S. Christman, MS, AEP  
 Curtis M. Craig, PhD, AHFP  
 Christopher M. Dalton, MSc, AEP  
 Emily M. Determan, MS, AEP  
 Michael D. Folmar, MS, AEP  
 Gregory A. Garrett, MA, AEP  
 Mahboobeh Ghesmaty Sangachin, MSc, AHFP  
 Amanda E. Ho, BSc, AEP  
 Brittani DeLoach, MISE, AHFP  
 Jennifer N. Lopez, BS, AEP  
 Gwen McMillion, MSIE, AEP  
 Rohith Nama, MS, AHFP  
 Jeff P. Parlier, MA, AEP  
 Trevor H. Plizga, MS, AEP  
 Amanda J. Slater, BS, AEP  
 Thomas M. Schneiders, MS, AEP  
 Natalie V. Schwatka, PhD, AEP  
 Mary J. Stoesser, BEng, AEP

#### Certificants No Longer Current (since last newsletter)

Angela Dumas	Gerald Miller
Rachel Eigen	Jasper Shealy
Lee-Jean Lin	David Thompson

## Retired Status

BCPE offers a retired status for those certificate holders who no longer practice or who practice no more than 15 hours per month. Retired status is awarded upon approval of the certificate holder's statement of work plus payment of a one-time \$150 retired status fee.

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## First Remote Examination Session

In November, BCPE hosted the first remote exam session in Indonesia prior to the SEANES (SouthEast Asia Network of Ergonomics Societies) conference. There were six candidates who sat for the exam. The exam was held in a room equipped with computers at each desk. The candidates were seated throughout the room with a proctor located at each end of the room.

The session could not have been held without the great assistance of several people: **Yassierli**, PhD who requested the opportunity, made the practical arrangements at the site and communicated with the candidates; **Markus Hartono**, PhD, CHFP who was the lead Proctor, going through a dry run with us as we learnt the process; and **Yushi Fujita** PhD, CPE who arrived early for the conference and also gave his time to co-proctor the session. We at BCPE are very grateful for the time and effort that you all gave to make our first remote exam a success! The session could not have been held without you. Thank you.



Yassierli taking the BCPE exam prior to the SEANES conference in Bandung, Indonesia.

## Did You Know?

- User Experience programs are getting increased recognition, for example, 'Top 50 Best Value UX Design Graduate Programs of 2016' were listed: <http://www.valuecolleges.com/rankings/best-ux-design-graduate-programs-for-2016/> . Be sure to advocate that future practitioners review these programs along with HF/E graduate degree programs [https://www.hfes.org/Web/Students/grad\\_programs.html](https://www.hfes.org/Web/Students/grad_programs.html)
- BCPE Core Competencies have been validated. See "Trends in Knowledge and Skill Expectations for New Human Factors Professionals" authored by Esa M. Rantanen, Ph.D, CPE, *Proceedings of the Human Factors and Ergonomics Society, 2016 Annual Meeting*, pp. 370-374. Available at [www.hfes.org](http://www.hfes.org)

## Volunteering

BCPE is having a booth at a conference in the near future for which we seek volunteers:

### **Applied Ergonomics Conference** (Orlando, FL), March 27-30, 2017

Please let us know if you are able to help us out. Those who are able to help with the booth may receive one CoC point for volunteer work. Email: [bcpehq@bcpe.org](mailto:bcpehq@bcpe.org)

**THANK YOU** to the numerous certificants who have donated their time and talent to BCPE in the last year. We greatly appreciate your service to the organization and those seeking BCPE certification. If you are interested in volunteering, we welcome your involvement! We have standing committees related to **Communication & Outreach** and **Certification** that would benefit from your assistance. If you would like more information about BCPE volunteer opportunities, please contact Kris Rightmire at [bcpehq@bcpe.org](mailto:bcpehq@bcpe.org).

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## FPE Student Award Submission Deadline

The Foundation for Professional Ergonomics has announced the 2017 deadline for the Dieter W. Jahns Student Practitioner Award. The award was created in honor of Dieter Jahns, a lifelong advocate of the practice of ergonomics and a leader in ergonomics certification. The submission deadline for the 2017 award is May 31. Notification of the winner will be sent by July 31.

The annual award is given to the student (or group of students) for a project that demonstrates the major practice areas of ergonomics: analysis, design, and evaluation. The purpose of the award is to advance professionalism in ergonomics by recognizing educational activities that demonstrate how professional ergonomists serve to make people's lives at work and at home healthier, safer, more productive, and more satisfying. The award is open to master's and doctoral students in ergonomics and ergonomics-related programs. Students who have completed their graduate degrees within one year of submitting are also eligible.

The award and cash prize of \$500 will be presented during the HFES Annual Meeting, October 9–13, 2017, in Austin, TX.

As this is a practitioner award, the student (or students) should describe and document a research or intervention project that exhibits the following:

- The major practice areas of ergonomics: analysis, design, and evaluation
- Direct, practical application
- Final design recommendations or a description of how the resulting information can be applied to design.

Submissions can be made individually or as a group. They should provide adequate descriptions, illustrations or photos, and details that address the judging criteria. Entries will be judged by the FPE Board of Directors. Please go to [www.ergofoundation.org](http://www.ergofoundation.org) for complete details on criteria and format.

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## Job Postings

Employers can reach practitioners by posting available job openings at the BCPE Job Bank. Jobseekers can view all available positions or narrow their search by a selection of criteria.

Certificants who are employers receive a 15% discount in posting fees. For a three-month advertisement, a Certificant pays \$255 versus \$300 for non-certificate holders.

Checkout the Job Postings at [www.bcpe.org](http://www.bcpe.org) for posted positions.

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## Calendar of Events

### BCPE 2016 - 17 Calendar of Events

Nov 30, 2016	Application Deadline for Spring 2017 Certification Examination.
April 1 - May 31, 2017	Spring 2017 Certification Examination Offering.
April 30, 2017	Application Deadline for Fall 2017 Certification Examination.
May 5-6, 2017	BCPE Mid-Year Business Meeting, Chicago, IL.
Sept 1 - Oct 31, 2017	Fall 2017 Certification Examination Offering.
October 10, 2017	BCPE Annual Networking Reception, Austin, TX.
October 13 - 14, 2017	BCPE Annual Business Meeting, Austin, TX.

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## Professional Development Opportunities

The following lists of conferences, short courses, exam prep courses and webinars, as well as educational resources are provided as convenience to certificant. They are not reviewed or endorsed by BCPE. The Professional Development Opportunities are on the BCPE website under a tab '[Resources](#)' and regularly updated.

### Conferences

#### 2017

January [ICAIE Paris 2017](#): 19<sup>th</sup> International Conference on Applied Ergonomics, **January 23-24**, Paris, France.

- February [2<sup>nd</sup> Human Factors Engineering & Usability Studies Summit](#): **Feb 7-8**, Near San Francisco Airport, Burlingham, CA, USA.
- [SeminarFest 2017](#): American Society of Safety Engineers, **Feb 9-16**, Las Vegas, NV, USA.
- March [HFES 2017 International Symposium on Human Factors and Ergonomics in Health Care: Shaping the Future](#), **Mar 5-8**, New Orleans, LA, USA.
- [CHIIR 2017](#): Conference on Human Information Interaction and Retrieval, **Mar 7-11**, Oslo, Norway.
- [ACM IUI 2017](#): Conference on Intelligent User Interfaces, **Mar 13-Apr 16**, St Raphael Resort, Agios Tychon, Cypress.
- [iConference](#), **Mar 22-25**, Wuhan, China.
- [AEC 2017](#): Applied Ergonomics Conference **Mar 27-30**, Disney's Coronado Springs Resort, Orlando, FL, USA.
- April [2017 Safe Patient Handling and Mobility Conference](#), **April 3-7**, Glendale, AZ, USA.
- [EHF 2017](#): Annual conference of Chartered Institute of Ergonomics and Human Factors, **Apr 25-27**, Daventry, UK.
- May [CHI 2017](#): Conference on Human Factors in Computing Systems, **May 6-11**, Denver, CO, USA.
- [Ergonomics Principles for Workplace Assessment and Design](#), U of Michigan, **May 23-24**, Grand Rapids, MI, USA.
- [ISAP 2017](#): 19<sup>th</sup> International Symposium on Aviation Psychology, **May 8-11**, Wright State University, Dayton, OH, USA. (Biennial)
- June [ISOES Conference 2017: XXIXth Annual International Occupational Ergonomics and Safety Conference](#), **June 1-2**, Seattle, WA, USA.
- [AIHce 2017](#): – American Industrial Hygiene Conference and Expo, **June 4-7**, Seattle, WA, USA.
- [UXPA 2017](#): User Experience Professionals Association Conference, **June 5- 8**, Toronto, Canada.

[ergoX 2017](#): –an extraordinary ergonomics event, HFES, **June 19-21**, Tampa, FL, USA.

[Safety 2017](#): ASSE Professional Development Conference & Exposition, **Jun 19-22**, Denver, CO, USA.

July [HCI 2017](#): Human-Computer Interaction International, **Jul 9-14**, Vancouver, Canada.

[AHFE 2017](#): 8th International Conference on Applied Human Factors and Ergonomics. **July 17-21**, Los Angeles, CA, USA.

[ACE-ODAM 2017](#): 48<sup>th</sup> Annual Conference of the Association of Canadian Ergonomists and 12<sup>th</sup> International Symposium on Human Factors in Organizational Design and Management, “Organizing for Higher Performance”, **Jul 31-Aug 3**, Banff, Alberta, Canada.

August [NECE](#): National Ergonomics Conference & ErgoExpo®, **Aug 22-25**, Las Vegas, NV, USA.

[ICHFE 2017](#): 19<sup>th</sup> International Conference on Human Factors and Ergonomics, **Aug 24-25**, Kuala Lumpur, Malaysia.

September [MobileHCI 2017](#): 19th International Conference on Human-Computer Interaction with Mobile Devices and Services, **Sep 4-7**, Vienna, Austria.

[ECCE 2017](#): European Conference on Cognitive Ergonomics, **Sep 20-22**, Umea, Sweden.

[NSC Congress & Expo 2017](#): National Safety Council, **Sep 23-29**, Indianapolis, IN, USA

October [HFES 2017](#), Human Factors and Ergonomics Society Conference, **Oct 9-13**, Austin, TX, USA.

## 2018

[IEA 2018](#): 20<sup>th</sup> Triennial Congress of the International Ergonomics Association, **Aug 26-30**, Florence, Italy.

**NordiCHI '18**: Nordic Conference on Human-Computer Interaction, (Biennial)



## Short Courses, 2017

- February [Work, Health, and Well-being: Framework Evidence and Applications](#), Feb 6-8, Harvard T. H. Chan School of Public Health, Boston MA, USA.
- [Human Factors Engineering & Usability Studies Summit](#), Feb 8-9, San Francisco, CA, USA.
- April [NORA Symposium Ergonomics](#): Apr 11-12, at Michigan Safety Conference, Novi, MI, USA.
- May [Spring 2017 Ergonomics Short Course](#) - Putting Ergonomics into Practice, May 2-5, Ohio State University, Columbus, OH, USA.
- [Using the Three Dimensional Static Strength Prediction Program™](#), May 10-11, Center for Occupational Health and Safety Engineering. The University of Michigan, Ann Arbor, MI, USA.
- [Ergonomic Principles for Workplace Assessment and Design](#), May 23-24, Center for Occupational Health and Safety Engineering. The University of Michigan. Grand Rapids, MI, USA.
- July [U of M Week 1](#) Annual Human Factors Short Course (2017): Designing Systems, Products and Services to Make them Easier, Safer and More Effective for Human Use. ***Date to be determined***, Center for Occupational Health and Safety Engineering. The University of Michigan, Ann Arbor, MI, USA.
- August [U of M Week 2](#) Annual Human Factors Short Course (2017): Designing Systems, Products and Services to Make them Easier, Safer and More Effective for Human Use. ***Date to be determined***, Center for Occupational Health and Safety Engineering. The University of Michigan, Ann Arbor, MI.
- October [Fall 2017 Ergonomics Short Course](#) - Putting Ergonomics into Practice, Oct 3-6, Ohio State University, Columbus, OH, USA.
- November [Ergonomics and Human Factors: Strategic Solutions for Workplace Safety and Health](#), Nov 13-17, Harvard T. H. Chan School of Public Health, Boston MA, USA.

## Exam Preparation Courses

[Ergo-Online Academy](#) A preparation course for the BCPE exam, offered online.  
[CPEprep](#): Version 2, DataChem Software. For purchase.

## Webinars

[UCLA Ergonomics Online Webinar Series](#), 2017, UCLA/ UC Irvine – Southern California Educational and Research Center, CA.

[HFES Webinar Series](#)- Human Factors and Ergonomics Society.

[Ergo Expo Webinar Series](#), produced by NECE. Free 60 minute webinars.

[IISE Webinars](#), Institute of Industrial and Systems Engineers.

## Educational Resources

[HFES Educational Resource Listing](#), Human Factors and Ergonomics Society – a listing of educational opportunities of varying formats (degree, certificate, distance and short course) maintained by HFES.

[Environmental Health & Safety Summer Extension Courses](#), University of California, Davis -- listing of summer 2016 Environmental, Health & Safety continuing and professional education courses.

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Fall | Winter 2016

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