



THE PROFESSIONAL ERGONOMIST

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The Newsletter of the Board of Certification in Professional Ergonomics

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President's Message

by Patrick Craven, PhD, CHFP

President



Greetings fellow certificants! I am grateful for the opportunity to represent you as president of BCPE for this next year.

I recently had the pleasure of attending the Human Factors & Ergonomic Society 67th Annual meeting in October. I had the opportunity to listen to many researchers and practitioners discuss the varied domains in which human factors and ergonomics (HFE) has an influence and this was an encouraging reminder of the importance of our field. Technological advances such as ChatGPT foster enthusiasm for the possibilities that AI may bring, but often come with inadequate understanding of the effects on human well-being as studied through human-AI interaction. Capabilities that are crafted with the intention of aiding humans can inadvertently work against this purpose. For example, Tesla recently recalled over 2 million vehicles due to the role that Autosteer functionality plays in blurring the lines of responsibility between human drivers and system. This recall underpins the importance of user-centered design in the rapidly expanding area of human-automation / AI interaction.

The conference was a terrific demonstration of the strength of our field with active participation from seasoned professionals, early career professionals, and our next generation who are finishing their education and training. One of the themes from the *Cognitive Systems Engineering at 40* talk was the importance of understanding the domain and systems in which we apply our expertise. This aids in the translation and insertion of HFE artifacts into the broader set of engineering processes. Software engineering has become agile and systems engineering has become increasingly model-based, and HFE must continue to evolve and adapt to remain relevant in optimizing human well-being and overall system performance.¹ As systems become increasingly complex, it is essential to have practitioners with the requisite analysis, design, and testing skills to successfully tackle these challenging human-system interactions that span the physical, cognitive, and organizational domains of HFE.

BCPE's role is to provide a set of competencies required of professionals in the field, and to establish and maintain the mechanism for assessing individuals against this standard. We may each focus our practice in the physical, cognitive, or organizational domains (or some combination thereof), and the certification sets the standard for what practicing professionals require. BCPE regularly evaluates the core competencies and certification process to ensure it matches the evolving needs of the field.

In this season of thankfulness, I want to express my gratitude for those who have chosen to obtain and retain their professional certification. I am also grateful for the many board members and volunteers who have come before us and who have defined and strengthened the certification process, and for our current group of directors and volunteers. We welcome participation by serving as a director or through contributions such as writing new questions, supporting evaluation of candidates, or serving as a liaison and supporting outreach efforts at conferences. Wishing you happy holidays and a wonderful start to 2024!

¹ The International Ergonomics Association defines human factors and ergonomics as *the scientific discipline concerned with the understanding of interactions among humans and other elements of a system, and the profession that applies theory, principles, data, and methods to design in order to optimize human well-being and overall system performance.*

Annual Meeting Highlights

The BCPE Board of Directors held their 2023 Annual Meeting in Washington, D.C. on October 27 and 28 at the end of the Human Factors & Ergonomics Society Annual Meeting. The following summarizes meeting reports and activities.

- It's been a great year for application submissions! Year to date (10/16/23) applications total 121: 40 Professional, 66 Associate and 15 transition applications. It's anticipated these numbers will grow with the approaching November application deadline.
- BCPE Directors and Staff continue to do a good job forecasting and managing our expenditures against our income, but increasing costs necessitate we revisit our current fee structure in 2024.

- Alternative pathways towards achieving certification continue to be explored – how can non-traditional education and experience satisfy our requirements for certification.
- The Exam Committee plans to revise the core competencies and examination next year.
- Communications and Media reports our official BCPE LinkedIn page has grown substantially since its launch in 2021. A ‘call to action’ button has been added to the BCPE Discussions page so new, non-certified followers, can request additional information about BCPE and the certification process.
- The Outreach committee remains engaged with our volunteer Ambassadors. These volunteers liaise with their Alma Mater or local university to promote certification and how it’s benefited them.
- The interactive tool, Padlet, was used to help prioritize goals and initiatives for 2024.

2024 BCPE Executive Committee

During the annual meeting, the BCPE Directors elected the 2024 Executive Committee:

President	Patrick Craven, PhD, CHFP
Vice President	Sivan Almosnino, PhD, CHFP
Secretary	Cynthia Rando, MS, MBA CHFP
Treasurer	Alan McFarland, PhD

Awards During Annual BCPE Reception

This year’s Reception was again jointly hosted by BCPE, HFES and the FPE at the HFES Annual Meeting in Washington, D.C. The event was well attended with guests enjoying complimentary appetizers, drinks and collegial conversation. Award presentations were also held.

BCPE Distinguished Service Award

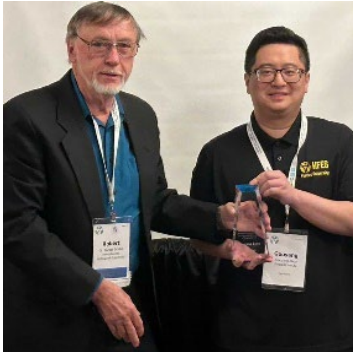
This year, we honor Carol Stuart-Buttle, CPE. Carol has been a strong BCPE advocate and leader since her certification in 1993. She dedicated eight years to the Board, from 1996 to 2002. Carol was BCPE’s part-time Executive Director from 2012 to 2022. Her expert leadership and extensive knowledge served BCPE well, as she helped develop systematic procedures for reviewing and revising the core competencies, exam items, and exam data analysis. Carol had a vital role in transitioning the exam to its current electronic delivery mode. Through her many professional affiliations, Carol further connected and strengthened BCPE’s relationship with other allied societies and organizations, both nationally and internationally.



Carol Stuart-Buttle (Right) receives her award from BCPE Director Gene Kay.

THANK YOU, Carol, for all you have done for BCPE. We are grateful for your years of dedication and commitment to us and the profession.

Dieter W. Jahns Student Practitioner Award



Guoyang Zhou (Right) receives his award from FPE President, Robert Smillie

This award is given annually by The Foundation for Professional Ergonomics (FPE) in honor of the late Dieter Jahns, a lifelong advocate of the practice of ergonomics and a leader in ergonomics certification.

We congratulate Guoyang Zhou, a PhD student at the School of Industrial Engineering/School of Nursing/Envision Center, Purdue University, for winning the 2023 Dieter W. Jahns Student Practitioner Award. The award and a \$1,000 check were presented to Guoyang during the reception in Washington, D.C. A second \$1,000 check was sent to Guoyang's major professor Dr. Denny Yu, CPE. Guoyang's project, "Bringing Patient Mannequins to Life: 3D Projection Enhances Nursing Simulation" used a unique augmented reality (AR) 3D projection approach to improve simulation training outcomes for nurses. **For more information visit the [FPE website](#).**

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Meet Our Directors

Incoming Directors

The BCPE welcomes two new directors to the Board of Directors: Craig Arndt, PhD, CHFP and public director, Alan McFarland, PhD. Their terms began in October. Shaheen Ahmed, PhD, CPE began his second term in October, while Denny Yu, PhD, CPE began his first full three-year term .

CRAIG ARNDT



Dr. Craig Arndt has extensive experience as a senior executive and technology leader in research, education, engineering and defense, homeland security and intelligence technologies, with extensive experience as an innovative leader in industry, academia, and government. He is often called upon as an industry expert to chair major program reviews; lead new programs, bid and proposal efforts, in the areas of C4ISR and sensor systems, Intellectual Properties and Data Rights, Human Factors, and Systems Engineering.

Dr. Arndt currently serves as a principal research engineer on the research faculty of the George Tech Research Institute (GTRI) in the System Engineering Research division of the Electronic Systems Lab. He is a licensed Professional Engineer (PE), a Certified Human Factors Professional (CHFP), and has over 40 years of professional engineering experience through the defense and government engineering community.

Dr. Arndt served as Professor and Chair of the engineering department at the Defense Acquisition University, and as technical director of the Homeland security FFRDC at the MITRE Corporation. In industry he has served as a manager at all levels of engineering management including director of systems engineering, CTO and Vic President of Engineering, and has led business units, companies, and engineering organizations of all sizes located both in the United States and internationally.

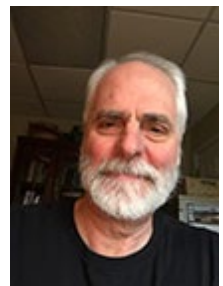
As an active member of the academic and professional community, he has served as a technical expert for the Army and Defense Science Boards, the CNO's Strategic Studies Group (SSG), the National Science Foundation, the International Standards Organization (ISO), the IEEE, and other public and private technical organizations, and for several major universities.

Dr. Arndt served as an engineering officer in the US Navy, retiring from the Navy in 2013.

He is married and has two children and three grandchildren.

ALAN McFARLAND

Dr. McFarland is a Human Experimental Psychologist and senior practitioner of user-centered design and solution engineering. After completing a Human Experimental Psychology Ph.D. program at the University of New Mexico, he has spent the last 38 years driving successful customer and end user IT solutions by combining user-centered design principles, methods, and tools with event driven architecture and agile approaches. His IT solutioning work has spanned multiple organizations, including R&D companies (Bell Labs, Bellcore/Telcordia, IBM) and industry sectors (Financial Services, Human Capital Management, Pharmaceuticals, Telecommunications). Applying a "lifecycle" solutioning approach as both individual contributor and managing director, Dr. McFarland works to bridge and integrate Human Factors (HF) principles with contemporary UX research and design practice. His more recent focus is on cooperative work between human and intelligent agent actors, applying traditional and contemporary HF and UX discovery, design, and usability testing approaches for AI IT solutions.



Dr. McFarland lives with his spouse on the mid-coast of New Jersey, and spends his fun time gardening, cooking, reading philosophy – and listening to Rock n Roll.

Outgoing Directors



BCPE bids farewell to **Jennifer Law MS, CPE** after six years of service on the board. She served as Treasurer for two years before assuming the role of Outreach Committee Chair, where she developed BCPE's Ambassador program. Jenn also created and launched our [online store](#). Thank you, Jenn!

Thank you, Linda! **Linda Tapp**, ALCM, CPTD, CSP served as our Public Director the past three years, providing insight and perspective from a non BCPE certified viewpoint. She also chaired the Communications and Media Committee and was instrumental in launching and overseeing our two LinkedIn forums.



Thomas Callaghan, MS, CPE served three years on the board. His contributions include serving as BCPE Secretary this year and actively participating on the Certification, Communications & Media, and Strategic Committees. Thank you, Tom!

Thank you to all our outgoing Directors for the service and leadership you donated to BCPE.

Certification and Exam Status

Certificant Totals

Through December 20, 2023, there are 1,433 certificant:

- 846 Professional Certificants
- 254 Associate Certificants
- 295 Retired Certificants (Professional and CEA)
- 38 Certified Ergonomics Associates (CEA)

Examination

Summary of Fall 2023 exam session.

Applicant	# Candidates	# Passed	% Passed
Professional & Associate to Professional	35	14	40

New Certificants

Congratulations to the 14 candidates who successfully passed the fall exam and obtained Professional Certification. Since the last newsletter (6/16/23) to December 20, 2023, we welcomed 33 new Associate Certificants.

New Professional Certificants:

Shawnette Adams MS, CHFP	Joshua Levinson DPT, CPE
Mohamed Badawy PhD, CPE*	Morgan Meneses MPH, CPE
Karen Cheng MS, CPE	David Morehouse BS, CPE
J. Hunter DeBusk MS, CHFP*	Hamid Norasi PhD, CPE
Jaclyn Faraci MHK, CPE*	Eric Schultz DPT, CPE
Matthew Jesso MA, CUXP*	Po Yin Lo MS, CHFP
Gavin Larson MS, CHFP	Jie Zhou PhD, CPE*

* Associate to Professional transition

New Associate Certificants:

Erika Andrade MS, AHFP	Christopher Lott MS, AEP
Carmelita Atencio MOT, AEP	Torsten Maier PhD, AUXP
Gina Barcia MS, AEP	Frances Mensah MPH, AEP
Kurt Bertram MS, AHFP	Dirk Mercer MS, AHFP
Cassidy Blaylock MS, AEP	Brittany Neilson PhD, AHFP
Allison Bosworth BS, AHFP	Oluyomi Oloruntoba MPH, AEP
Sophia Brent MS, AUXP	Nicholas Roome MS, AUXP
Juan Carlos Ortiz Hugues DDS, AEP	Robert Plant BS, AEP
Mitchell Champagne MSIE, AHFP	Michael Sadlowski MSc, AEP
Camila Ciorba MSc, AEP	Acran Salmen Navarro MS, AEP
Justin Friesen BS, AEP	Nathan Sandoval DPT, AEP
Camille Gray MS, AHFP	Joseph Sevits BS, AUXP
Eric Gelfand MOT, AEP	Md Shafiqul Islam MEng, AHFP
Bennett Hardin MS, AHFP	Leelavathy Thangaraj MHSc, AEP
Haley Hoffman MA, AHFP	Mykaylee Wilhite MS, AHFP
Jennifer Hufnagle MA, AHFP	
Mia Kollia MS, AHFP	
Vamsi Krishna Varma Pusapati PhD, AEP	

Certificants No Longer Current (since last newsletter)

Gaylord Bridegan	Colin Brigham	Sun Kim
Mohammad Jeelani	Beverly Lovelace	Andrew Lucas
Gwen McMillion	Samuel Neff	Patrick Patterson
Maria Valladares	Sahika Vatan Korkmaz	

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 \$165 retired status fee.

In Memoriam

BCPE learned the following certificants passed away in the past year. Our hearts and sympathy go out to their families and friends.

Jian Liu, PhD, CPE

Martin Helander, PhD, CHFP ret.

Join Us on LinkedIn!

Our social media presence is growing, so if you haven't already, please connect with us:

Our **MAIN** LinkedIn page "[Board of Certification in Professional Ergonomics](#)" because it is an important additional method for us to communicate with you. Aside from the important news being shared, we highlight individual certificants voluntarily participating in our ongoing showcase series and share all job postings published on the web site.

We also invite you to connect with colleagues on the *BCPE hosted* LinkedIn Discussion Page "[Human Factors, UX, and Ergonomics Discussion Page](#)". Consider joining and posting interesting stories, work challenges or questions. Let's build a good collegial networking forum.

Speaking of social media, please be sure to include your credentials after your name whenever possible, but especially on social media. This helps increase awareness about BCPE certification and it helps us identify certificants doing great things. Even better, don't wait to be discovered! Send us your news about promotions, career changes, degrees earned, papers published or other good news so we can highlight and share your accomplishments with the BCPE community. Send your news bcpehq@bcpe.org.

FPE Student Award Submission Deadline

The Foundation for Professional Ergonomics has announced the 2024 deadline for the Dieter W. Jahns Student Practitioner Award. The award was created in memory of Dieter Jahns, a lifelong advocate of the practice of ergonomics and a leader in ergonomics certification. The submission deadline for the 2024 award is June 30, 2024. Notification of the winner will be sent by July 31, 2024.

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 Integration. 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 all 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 \$1,000 will be presented at the BCPE Reception, during the HFES Annual Meeting, September 9–13, 2024.

Please go to [Foundation for Professional Ergonomics](#) for complete details on criteria and format.

Job Postings

Employers reach practitioners and Jobseekers find a job! Post your job opening in the BCPE Job Bank. Send us the link to your position and we will link back to it. It's **FREE** and simple to do! We also share it on our BCPE LinkedIn page.

Why BCPE? Not all BCPE certificants belong to professional societies or the same associations. When you send BCPE your job opening, you reach the many professionals whom you know have gone the extra mile to distinguish themselves and become certified. By posting with us, you also demonstrate support for BCPE certification. Please continue to send your job announcements!

For current positions, visit our Job Postings [page](#).

Calendar of Events

BCPE 2024 Calendar of Events

April 1-30, 2024 (**one month**)

April 30, 2024

May 8, 2023

Sep 1-30, 2024 (**one month**)

HFES Annual Meeting, 2024

HFES Annual Meeting, 2024

November 30, 2024

Spring 2024 Certification Examination Offering.

Application Deadline for Fall 2024 Certification Exam.

BCPE Mid-Year Business Meeting.

Fall 2024 Certification Examination Offering.

BCPE Annual Networking Reception, Phoenix, AZ.

BCPE Annual Business Meeting, Phoenix, AZ.

Application Deadline for Spring 2025 Certification Exam.

Professional Development Opportunities

A list of Conferences, Short Courses, BCPE Preparation Courses, and Webinars are provided as a convenience to certificants. They are neither reviewed nor endorsed by BCPE.

<https://bcpe.org/downloads/>

<https://bcpe.org/events/>

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Director of Operations: Kris Rightmire

Executive Assistant: Heather Walston

BCPE Directors:

Patrick Craven PhD, CHFP, President

Sivan Almosnino PhD, CHFP, Vice President

Cynthia Rando MS, MBA, CHFP, Treasurer

Alan McFarland, PhD Secretary

Shaheen Ahmed PhD, CPE

Craig Arndt, PhD, CHFP

Rose Figueroa, PhD, CHFP

Gene Kay, MS, CPE ret.

Penney Stanch, MPH, CPE

Denny Yu, PhD, CPE

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2950 Newmarket St, Ste 101 PMB 244, Bellingham, WA 98226, USA

Phone: 888-856-4685; fax: 866-266-8003; e-mail: bcpehq@bcpe.org; Website: www.bcpe.org.

Inquiries regarding editorial content and change of contact information may be directed to: newsletter@bcpe.org
