

Brian Nichols Craig, PhD, PE, CPE

Dean of Engineering
Charles and Eleanor Garrett Endowed Chair
Director, Maritime Safety Research Initiative
University Scholar
Lamar University
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Experience

Academic Experience

- Dean of Engineering, Charles and Eleanor Garrett Endowed Chair, College of Engineering, Lamar University, Beaumont, Texas, July 2019 – Present
- Professor and Chair, Department of Industrial Engineering, Lamar University, Beaumont, Texas, September 2012 – June 2019
- Professor and Interim Chair, Department of Industrial Engineering, Lamar University, Beaumont, Texas, September 2011 – August 2012
- Associate Professor and Interim Chair, Department of Industrial Engineering, Lamar University, Beaumont, Texas, September 2010 – August 2011
- Associate Professor, Department of Industrial Engineering, Lamar University, Beaumont, Texas, September 2005 – August 2011
- Assistant Professor, Department of Industrial Engineering, Lamar University, Beaumont, Texas, January 2001 – August 2005

College/Departmental/Center/Initiative Leadership

- Over the past five years, the College of Engineering (since July 2019) and the Department of Industrial Engineering (until June 2019) at Lamar University has achieved the following milestones:
 - Established the \$2.1M Emerson Advanced Technology Center (fall 2021). The first industry named space in Lamar University's College of Engineering.
 - The annual College ROI report by PayScale measures the return on tuition investment 20 years after graduation ranked Lamar University No. 3 in the US and 1st in the State of Texas in 2021.

- With the leadership of Lamar University's President, Dr. Kenneth Evans, established the Center for Midstream Management and Science (CMMS), Lamar University, Beaumont, Texas, September 2019 – September 2020 (initially funded by special item – State of Texas for \$1.9M, September 1, 2019 – August 31, 2021)
- Serve as Director, TEES Regional Director for Lamar University (September 2019 – present)
- With the leadership of Lamar University's President, Dr. Kenneth Evans, established the Center for Advances in Port Management (CAPM), Lamar University, Beaumont, Texas (initially funded by special item – State of Texas for \$2.72M, September 1, 2015 – August 31, 2017), Interim Director (September 2014 – June 2016), Associate Director for Research (July 2016 – August 2017), and Associate Director (January 2018 – August 2019): **B. Craig**
- Established the Maritime Safety Research Initiative (MSRI), Department of Industrial Engineering, Lamar University, Beaumont, Texas, August 2008 – Present (total funding > \$1.4M), Director: **B. Craig**
- Proposed Lamar University/Emerson – Center of Excellence in Operational Certainty (2020 renamed Emerson, Advanced Technology Center), resulting in a \$200,000 cash gift thus far (2017 – present)
- Led the BSIE program ABET re-accreditation, resulting in no shortcomings in 2012 and 2018.

- Human Factors, Ergonomics and Safety Engineering Expert Witnessing (~27 cases) (2006 – present)
- *Literature Review – Benefits of Sit-Stand Workstations*, Altec Industries, Inc., Birmingham, Alabama (2016)
- *Safety Assessment*, Southern Avionics, Beaumont, Texas (2013 – 2014)
- *Office and Control Room Ergonomic Assessment*, Veolia Environmental Services, Port Arthur, Texas (2012 – 2013)
- *Ergonomic Assessment*, American Valve and Hydrant, Beaumont, Texas (2012)
- Development Maintenance and Materials Handling sections of *Ergonomics Guide*, American Bureau of Shipping, Houston, Texas (2011 – 2012)
- Review of *Guidance Notes of Human Factors Engineering into the Design of Offshore Installations*, American Bureau of Shipping, Houston, Texas (2011)
- Development of *Human Factors and Ergonomics Toolbox Talks*, American Bureau of Shipping, Houston, Texas (2010)
- Review of *Human Factors, Ergonomics and Bridge Resource Management Activities of Various Class Societies*, American Bureau of Shipping, Houston, Texas (2009 – 2010)
- Technical Editor of *Introduction to Human Error Two-Day Training Course*, ABS Academy, American Bureau of Shipping, Houston, Texas (2009)
- Development of the *Ambient and Environmental Guidance Note*, American Bureau of Shipping, Houston, Texas (2008 – 2010)
- Development of the *Human Factors Engineering Toolkit*, American Bureau of Shipping, Houston, Texas (2008 – 2010)
- Development of the *Crew Habitability One-Day Training Course*, ABS Academy, American Bureau of Shipping, Houston, Texas (2008)
- *Office Ergonomics Evaluation*, Nalco, Beaumont, Texas (2007)
- *Human Performance in Inspection*, American Bureau of Shipping, Houston, Texas (2006 – 2007)
- *Forward Functional Reach*, Altec Industries, Inc., Birmingham, Alabama (2007)
- *Analysis of Incident Investigation and Root Cause Software*, American Bureau of Shipping, Houston, Texas (2007)
- *Human System Integration (HSI) Checklist for Military Vessels*, American Bureau of Shipping, Houston, Texas (2006 – 2007)
- *Guide for Means of Access to tanks and holds for Inspection*, American Bureau of Shipping, Houston, Texas (2005 – 2006)
- *Controller Dynamics*, Altec Industries, Inc., Birmingham, Alabama (2004 – 2005)
- *Laboratory Ergonomic Evaluation*, Intercontinental Terminals Company, Deer Park, Texas (2004)
- *Effect of Fatigue on Human Error and Task Performance on Navigational Bridges*, American Bureau of Shipping, Houston, Texas (2002 – 2003)
- *Implementation of TQM during Location Transition of a Synthetic Rubber Manufacturer*, Ameripol Synpol, Beaumont, Texas (2002)
- *Recommended Lifting Guideline with Respect to an International Population*, American Bureau of Shipping, Houston, Texas (2002)
- *Analysis of the Tempur-Pedic Foam in Office Seating*, Tempur-Pedic, Inc., Birmingham, Michigan (2002)

- *Validation of Ergonomic Criteria contained in the ABS Guidance Notes for the Application of Ergonomics to Marine Systems*, American Bureau of Shipping, Houston, Texas (2001 – 2002)
- *Employee Utilization Guidelines in a Coking Operation at ExxonMobil Refining and Supply*, Beaumont, Texas (2001)
- Potroom Supervisor/Vacation Relief Shift Coordinator/Ergonomics Committee Leader, Tennessee Operations, Alcoa Inc., Alcoa, Tennessee, August 1998 – January 2001
- Ergonomics and Safety Specialist, Primary Metals Division, Alcoa Inc., Knoxville1.

- The National Society of Professional Engineers Code of Ethics, Department of Continuing Education, Lamar University, Beaumont, TX, October 2011
- Program Evaluator Refresher Training, Accreditation Board of Engineering and Technology (ABET), May 2011
- The National Society of Professional Engineers Code of Ethics, Department of Continuing Education, Lamar University, Beaumont, Texas, October 2010
- Program Evaluator Training – Program Observer, Accreditation Board of Engineering and Technology (ABET), Tempe, Arizona, November 2009
- Program Evaluator Training, Accreditation Board of Engineering and Technology (ABET), Baltimore, Maryland, May 2009
- The National Society of Professional Engineers Code of Ethics, Department of Continuing Education, Lamar University, Beaumont, Texas, March 2009
- Engineering Ethics, Department of Continuing Education, Lamar University, Beaumont, Texas, June 2008
- Faculty Workshop on Accessing Program Outcomes Accreditation Board of Engineering and Technology (ABET), Phoenix, Arizona, January 2007
- A Human Factors Approach to Accident Analysis and Prevention, All-Day Workshop, Denver, Colorado, October 2003
- OSHA Strategic Initiative and OSHA Recordkeeping Training, Beaumont, Texas, January 2002
- Alcoa Production System Training, Alcoa, Tennessee, May 2000
- Supervisor Training – Core Skills for Building Commitment and Preparing Others to Succeed, Alcoa, Tennessee, December 1999
- Supervisor Training – Potroom Process Training, Alcoa, Tennessee, May 1999
- Supervisor Training – Labor Relations, Alcoa, Tennessee, March 1999
- Supervisor Training – Handling Difficult Situations as a Supervisor through Both Positive and Negative Reinforcement, Alcoa, Tennessee, December 1998
- Supervisor Training – Potroom Process Training, Alcoa, Tennessee, November 1998
- Alcoa Production System Training, Charlotte, North Carolina, April 1998
- Environmental Health and Safety Workshop, Atlanta, Georgia, April 1998
- Health and Safety Management System, Pittsburgh, Pennsylvania, April 1998
- Health and Safety Auditor Training, Addy, Washington, March 1998

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- *Estimation of the Probability of Occurrence of “Events” that Could Disrupt Operations on the Sabine – Neches Waterway by the Delphi Method (2006)*
- Committee Chair for the following Undergraduate Honors Thesis, *A Prospective Field Study of the Relationship of Potential Occupational Risk Factors with Occupationally Related Back Injury (2004)*
- Committee Co-Chair for the following McNair Thesis, *Psychosocial Risk Factors Related to Back Injury in the Material Handling Industry (2011)*
- Committee Member/Chair – 79 ME/MEM students

Courses Taught

- Occupational Ergonomics (undergraduate and graduate; face-to face)
- Human Factors Engineering (undergraduate and graduate; face-to-face)
- Methods, Standards, and Work Design (undergraduate; face-to-face)
- Industrial and Product Safety (undergraduate and graduate; face-to-face/online)
- Production and Inventory Control (undergraduate and graduate; face-to-face)
- Production and Inventory Systems (undergraduate; face-to-face)
- Introduction to Industrial Engineering (undergraduate; face-to-face)
- Introduction to Port Management (graduate; hybrid)
- Special Topics: Advances in Safety Engineering (undergraduate; online)
- Special Topics: Ergonomics Research (graduate; face-to-face)
- Special Topics: Ergonomic Instrumentation (graduate and gaface)
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- *A Railyard Management Optimization Software – Phase I: Iron Horse Terminal Application-Phase I*, Iron Horse Terminals, \$52,111, Awarded January 2020 – December 2020. M. Hamidi – Principal Investigator with Co-PI:

- Mariner Safety Program (formerly Mariner Personal Safety), American Bureau of Shipping, Houston, Texas, **B. Craig** – Principal Investigator with Co-PI's: J. Curry, and W. Zhu (Fall 2009 – Summer 2020) \$576,882.
- *Proposal for Joint Safety Performance Benchmarking/Best Practices Initiative*, for the Petroleum Equipment & Services Association (PESA), Lamar University (Subaward), **B. Craig** – Principle Investigator with Co-PI's: J. Curry and W. Zhu. Submitted Spring 2018; Proposed Effective Dates 2018 – 2021, Total Budget Request \$149,600; Lamar University's Budget Request \$44,888. With the American Bureau of Shipping (Lead Organization). Not funded.
- *Proposal for ABS Safety Culture Assessment Services for <Industry Partner>*, Lamar University (Subaward), **B. Craig** – Principle Investigator with Co-PI's: J. Curry and W. Zhu. Submitted Fall 2017; Proposed Effective Dates 2017 – 2019, Total Budget Request \$353,030; Lamar University's Budget Request \$99,000. With the American Bureau of Shipping (Lead Organization). Not funded.
- Gulf Research Program, National Academies of Science, *Mitigation of Offshore Drilling Risk via Data Fusion-based Reliability Modeling and Risk-based Predictive Maintenance Decision Making*, Y. Xiang – Principle Investigator with Co-PIs: Q. Feng, M. Li, D. Coit, and **B. Craig** (Fall 2017 – Summer 2020), Budget Request \$937,082. Not Funded.
- Development of the *ASTM Guide for Recording and Reporting of Injuries and Illnesses for Maritime Industry*, the Maritime Administration (MARAD) and the Ship Operations Cooperative Program (SOCP), **B. Craig** – Principal Investigator with Co-PI's: J. Curry, W. Zhu (2015 – 2017) \$15,000 (part of the Mariner Safety Program).
- Development of the *ASTM Guide for Reporting and Recording of Near-Misses for Maritime Industry*, the Maritime Administration (MARAD) and the Ship Operations Cooperative Program (SOCP), **B. Craig** – Principal Investigator with Co-PI's: J. Curry, W. Zhu (2015 – 2017) \$15,000 (part of the Mariner Safety Program).
- *Industrial and Mechanical Engineering Scholars with Scholarships, Career Mentoring, Outreach and Advisement, Professional Societies and Engineering Learning Community (SCOPE)*, National Science Foundation (NSF), W. Zhu – Principal Investigator with Co-PI's J. Curry, H. Chu, **B. Craig**, J. Zhou (Fall 2015 – Summer 2020) \$625,300.
- IUSE/PFE: RED, *Professional Education for Opportunities and Planetary Leadership in Engineering (PEOPLE)*, National Science Foundation (NSF), S. Palanki – Principal Investigator with Co-PI's L. Hasselbach, **B. Craig**, H. Chu, and senior personnel J. Curry, N. Brake, S. Shoefstall, K. Hinerman, N. Delatte (Fall 2017 – Summer 2022), Budget Requested \$1,893,744. Not funded.
- *Proposal for Conducting a Safety Culture Improvement Process Evaluation*, Lamar University (Subaward) **B. Craig** – Principle Investigator with Co-PI's: J. Curry and W. Zhu. Submitted Summer 2016; Proposed Effective Dates 2016 – 2017, Total

Year 1 Budget Request: \$350,791 from Sponsor, \$176,876 from Lamar University,

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- McSweeney, K., **Craig, B.**, Curry, J., and Zhu, W. Are Mariner Near Misses Influencing Design? *Transportation Research Record*

- Liu Y., Li Y., **Craig B.**

- Akurke, S., Li, Y., & **Craig, B.** (2017). Effect of smart phone use on upper extremity and neck. In *Proceedings of International Conference on Applied Human Factors and Ergonomics*, 241-249.
- Zhu, W., **Craig, B.**, Chu, H., Curry, J., and Zhou, J., Industrial and Mechanical Engineering Scholars with Scholarships, Career Mentoring, Outreach and Advisement, Professional Societies and Engineering Learning Community (SCOPE) S-STEM Program, *Proceedings of the 2017 American Society of Engineering Education 124th Annual Conference and Exposition*, Columbus, OH, June 2017
- Shi, Y., Xiang, Y., and **Craig, B.**, Condition-based maintenance for deteriorating transportation infrastructures, *Proceedings of the 2017 Institute of Industrial and Systems Engineering Annual Conference*. May 2017
- Safa, M. and **Craig, B.**, Maritime and Port Activity Analysis Tool. *Advances in Human Aspects of Transportation (Proceedings of the 7th International Conference on Human Factors)*, Orlando, Florida, January 2017
- Tomlinson, C., **Craig, B.**, and McSweeney, K. The ABS Approach to Self-assessing Safety Culture in Maritime Organizations. *Proceedings of the Royal Institution of Naval Architects (RINA) International Conference on Human Factors in Ship Design and Operations*, London, England, September 2016
- Ilori, A., Li, Y., Mahesh, V., and **Craig, B.** (2016). Effect of position: an ergonomics evaluation of police wearable equipment. In M. Soares, C. Falcao, T. Ahram, (Eds): *Advances in Ergonomics Modeling, Usability and Special Populations*, 199-207.
- Curry, J., and **Craig, B.**, Zhu, W., An Online 2+2 Bachelor's Degree Program Track in Industrial Engineering at Lamar University, *Proceedings of the 2016 American Society of Engineering Education 123rd Annual Conference and Exposition*, New Orleans, Louisiana, June 2016
- Kulibaba, N., Xiang, Y., Curry, J., and **Craig, B.**, Joint Condition-based Maintenance and Spare Parts Provisioning for a Two-echelon Network, *Proceedings of the 2016 Industrial Engineering Research Conference*, Anaheim, California, May 2016
- Zhu, W., Jiang, G., and **Craig, B.**, Online Simulation Course and "Arena Video Tutor" Mobile App Development, *Proceedings of the 2016 Industrial Engineering Research Conference*, Anaheim, California, May 2016
- **Craig, B.**, Curry, J., Zhu, W., McSweeney, K., and Papillon, R., Reporting Practices for Near Miss Reporting Systems, *Proceedings of the 2014 Offshore Technology Conference*, Houston, Texas, May 2014
- Curry, J., Zhu, W., **Craig, B.**, Turpin, L., Bokhari, M., and Mhasavekar, P., Using a Natural Language Generation Approach to Documenting Simulation Results, *Proceedings of the Winter Simulation Conference (WSC 2013)*, Washington, DC, December 2013
- McSweeney, K., Tomlinson, C., and **Craig, B.**, Using Safety Performance Metrics to Support CSR Goals and Objectives, International Scientific Meeting for Corporate Social Responsibility (CSR) in Shipping, Special Session in *2nd International Maritime Incident and Near Miss Reporting Conference (IMISS 2013)*, Kotka, Finland, June 2013
- Tomlinson, C., **Craig, B.**, and Meehan, M., Enhancing Safety Performance with a Leading Indicators Program. *Proceedings of the Royal Institution of Naval*

- Chodapaneedi, T., Illori, A., Sibbadi, B., Allam, V., Gandhi, R., Li, Y., **Craig, B.**, Order Input Interface for People with Speech and Hearing Impairment at a Drive Thru (Presentation), *Human Factors and Ergonomics Society – Houston Chapter*, Clear Lake, Texas, June 2016
- Vanukura, R., Kandakatla, J., Konidhina, M., Satti, S., Penumatsa, S., Li, Y., **Craig, B.**, Resume Search with Multiple Key-Words of Job Requirement (Poster), *Human Factors and Ergonomics Society – Houston Chapter*, Clear Lake, Texas, June 2016
- Mahesh, V., Li, G., Li, Y., **Craig, B.**, Effect of Flooring on Lower Extremity Discomfort and Fatigue during Food Service Tray-line Jobs (Poster), *Human Factors and Ergonomics Society – Houston Chapter*, Clear Lake, Texas, June 2016
- Illori, A., Li, Y., Mahesh, V., Li, **Craig, B.**, Effect of Position: An Ergonomics Evaluation of Police Wearable Equipment (Poster), *Human Factors and Ergonomics Society – Houston Chapter*, Clear Lake, Texas, June 2016
- Illori, A., Li, G., Li, Y., Zhang, J., **Craig, B.**, Effects of Category Wording and Color Contrasts on the Usability of a Library Website in a Language-Diverse Institution (Poster), *Human Factors and Ergonomics Society – Houston Chapter*, Clear Lake, Texas, June 2016
- Patil, N., Kethineedi, S., Dabiran, Y., Saiprem, P., Li, G., Li, Y., **Craig, B.**, Evaluation of User Experience in Different Instant Messaging (Poster), *Human Factors and Ergonomics Society – Houston Chapter*, Clear Lake, Texas, June 2016
- **CB.**

- **Craig, B.**, Papillon, R., Curry, J., Zhu, W., and McSweeney, K., Reporting Practices for Close Call (Near Miss) Reporting Systems, *2014 Offshore Technology Conference*, Houston, Texas, May 2014
- Curry, J., Zhu, W., **Craig, B.**, Turpin, L., Bokhari, M., and Mhasavekar, P., Using a Natural Language Generation Approach to Documenting Simulation Results, *Winter Simulation Conference (WSC 2013)*, Washington, DC, December 2013
- McSweeney, K., Tomlinson, C., and **Craig, B.**, Using Safety Performance Metrics

Neurovascular Disorders – The State of the Research Regarding Workplace Etiology and Prevention Symposium, National Advisory Committee on Ergonomics (NACE), Occupational Safety and Health Administration (OSHA), Invited Presenter, United States Department of Labor, Washington, DC, January 2004

- McSweeney, K., **Craig, B.**, Congleton, J., and Miller, D., Ergonomic Program Effectiveness for Office and Laboratory Workers, *47th Annual Human Factors and Ergonomics Conference, Human Factors and Ergonomics Society*, Denver, Colorado, October 2003
- Congleton, J., **Craig, B.**, Benden, M., and Parker, M., Current and Future Office Ergonomic Trends, *47th Annual Human Factors and Ergonomics Conference, Human Factors and Ergonomics Society*, Poster Session, Denver, Colorado, October 2003
- **Craig, B.**, Transportation Methods of Laptop Computers and Peripheral Equipment, *Industrial Engineering Research Conference, Institute of Industrial Engineers Annual Conference*, (NOTE: due to the State of Texas's Budget deficit, I was not able to travel to Portland, Oregon), May 2003
- Dede, K., White, K., and **Craig, B.**, Performing Equipment Review in the Field Rather Than At the Factory, *Applied Ergonomics Conference, Institute of Industrial Engineers*, Orlando, Florida, March 2003
- **Craig, B.**, Fillyaw, J., and Joubert, B., A Field Study of Buttock-Thigh Pressures of Five Ergonomic Office Chairs, *Industrial Engineering Research Co644.8199 Tm1gGf.o1vw(Engineend*

Other Publications, Conferences, Workshop, and Seminar Presentations/Participation

- Kang, M., Zohoori, S., Hamidi, M and **Craig, B.**, Study of Narrow Waterways Congestion Using AIS Data, *2021 AIS Data Analyst Forum*, Online Forum, May 2021
- **Craig, B.**, Curry, J., Zhu., W., and McSweeney, K., ABS/Lamar University Leveraging Data Analysis to Improve Lifeboat Safety, Human Factors Lectern Session, Invited Speaker, *Transportation Research Board 99th Annual Meeting*, Washington DC, January 2020
- Paul, N., Li, Y., and **Craig, B.** (2019). The Effect of Smartphone Using Postures and Tasks on Neck Flexion, Upper Extremity Muscular Fatigue and Users Discomfort. In Houston HFES Symposium, Houston, TX.
- Rao, G., Patel, J., Jani, J., Madkour, N., Sharma, P., Li, Y., and **Craig, B.** (2019). Ergonomic Improvements in Heavy-Duty Four-Wheel Cart with Pelvis Support. In 1st Annual Graduate Research Celebration, Lamar University, Beaumont, TX.
- Mhamunkar. M., Bagane, S., Kolhe, L., Singh, V., Li, Y., and **Craig, B.** (2019). Handheld Grass Cutter Machine with Supporting Wheels. Poster Session at the Houston HFES Symposium, Houston, TX.
- Patel, J., Rao, G., Jani, J., Madkour, N., Sharma, P., Li, Y., and **Craig, B.** (2019). Ergonomic Improvements in Heavy-Duty Four-Wheel Cart with Pelvis Support. Poster Session at the Houston HFES Symposium, Houston, TX.
- Patel, S., Li, Y., and **Craig, B.** (2019). Ergonomics evaluation of material handling task using a tilt table cart. Poster Session at the Houston HFES Symposium, Houston, TX.
- Li, G., Li, Y., and **Craig, B.** (2019). Exploring the effects of weather, lighting condition and traffic volume on driver behavior: A simulator-based study. Poster Session at the Houston HFES Symposium, Houston, TX.
- Kaneria, A., Li, Y., and **Craig, B.** (2019). Learning Drivers' Behavior Using Social Networking Service. Poster Session at the Houston HFES Symposium, Houston, TX.
- Paul, N., Li, Y., and **Craig, B.** (2019). The Effect of Different Smartphone-Use Postures on Neck Flexion. Poster Session in 1st Annual Graduate Research Celebration, Lamar University, Beaumont, TX.
- Li, G., Li, Y., and **Craig, B.** (2019). Exploring the effects of weather, lighting condition and traffic volume on driver behavior: A simulator-based study. Poster Session in 1st Annual Graduate Research Celebration, Lamar University, Beaumont, TX.
- **Craig, B.**, and McSweeney, K., ABS/Lamar University Maritime Safety Research Initiative/Center, Human Factors Workshop, Invited Speaker, *Transportation Research Board 97th Annual Meeting*, Washington DC, January 2018
- **Craig, B.** and McSweeney, K. ABS/Lamar University Maritime Safety Research Initiative. *Transportation Research Board's Ferry Transportation and Marine Safety and Human Factors Committee's Joint Mid-year Meeting*, New York, NY, May 2017
- **Craig, B.**, and McSweeney, K., Maritime: Safety Culture and Leading Indicators, Safety Culture Assessment and Improvement Experiences across Modes: Case Studies and Lessons Learned, Human Factors Workshop, Invited Speaker,

Transportation Research Board 96th Annual Meeting, Washington DC, January 2017

- Marquez, A. and **Craig, B.** Port Logistics, *Congreso de Innovacion, Ingenieria y Tecnologia 2016*, Invited Presentation, Progreso, Mexico, May, 2016
- **Craig, B.** and Stromberg, E., Port Community Outreach: A University's Role, *AAPA Seaports Magazine*, Summer, 2016
- Bureau of Safety and Environmental Enforcement (BSEE) 2015 BSEE Domestic and International Standards Workshop, Quality Management and Equipment Reliability (QM/ER) Session, Invited Panelist, University of Houston, Houston, Texas, May 2015
- STEM Outreach Workshop, Invited Panelist, Lamar University, Beaumont, Texas, January 2015
- **Craig, B.**, *Human Factors, Ergonomics, and Safety*, Office of Undergraduate Research (OUR), Lamar University, Beaumont, Texas, November 2014
- *Ocean Energy Safety Research Roadmap for the 21st Century*, Attendee, Ocean Energy Safety Institute (OESI), College Station, Texas, October 2014.
- STEM Outreach Workshop, Invited Panelist, Lamar University, Beaumont, Texas, January 2014
- Leadership Beaumont, Invited Participant, Lamar University, Beaumont, Texas, March 2013
- NASA Habitable Volume Workshop, Invited Participant, Houston, Texas, July 2012
- **Craig, B.**, *Human Factors and Ergonomics Guidelines in Auditory Displays*, Department of Audiology, Lamar University, Beaumont, Texas, 2004
- Co-Chair, *Effective Application of Behavioral Based Processing in Offshore Operations*, International Workshop on Human Factors in Offshore Operations, Houston, Texas, April 2002
- **Craig, B.**, *Ergonomics*, Southeast Texas Safety Seminar, ASSE Sabine Neches Chapter, Invited Speaker, Beaumont, Texas, January 2002

Industry Presentations

- **Craig, B.**, Lamar College of Engineering & Opportunities for SETX, *ISA Southeast Texas Section*, Beaumont, TX, October 2021
- **Craig, B.**, Lamar College of Engineering & Opportunities for Partnership, *Plant Managers Forum*, Nederland, TX, September 2021
- **Craig, B.**, Lamar College of Engineering & Opportunities for Partnership, *Golden Triangle Golden Roundtable*, Beaumont, TX, September 2021
- **Craig, B.**, Curry, J., and Zhu, W., American Club/ABS/Lamar University Maritime Safety Initiative Phase One Final Presentation. *American Club and ABS*, Houston, TX, June 2019
- **Craig, B.**, ABS' and Lamar University's Maritime Safety Research Initiative. *National Safety Council, Waterborne Transport Group*, Maritime Administration (MARAD) DOT Headquarters Washington DC, May 2019
- **Craig, B.**, ABS' and Lamar University's Maritime Safety Research Initiative. *2019 Research Vessel Operators Committee Meeting (RVOC)*, Scripps Seaside Forum Auditorium Scripps Institution of Oceanography, La Jolla, CA, April 2019

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- **Craig, B.**, and McSweeney, K., *Overview of Safety Culture, Leading Indicators, and Combined Safety Culture Dataset*, <Industry Partner>, Singapore, April 2014.
- **Craig, B.**, and McSweeney, K., *Introduction to Safety Culture and Leading Indicator Assessment for <Industry Partner>*, Singapore, April 2014
- McSweeney, B., and **Craig, B.**, *Introduction to the Mariner Personal Safety Project for <Industry Partner>*, Singapore, April 2014
- **Craig, B.**, and McSweeney, K., *Introduction to Safety Culture and Leading Indicator Assessment for <Industry Partner>*, Singapore, April 2014
- McSweeney, B., and **Craig, B.**, *Introduction to the Mariner Personal Safety Project for <Industry Partner>*, Singapore, April 2014
- **Craig, B.**, and McSweeney, K., *Introduction to Safety Culture and Leading Indicator Assessment for <Industry Partner>*, Singapore, April 2014
- McSweeney, B., and **Craig, B.**, *Introduction to the Mariner Personal Safety Project for <Industry Partner>*, Singapore, April 2014
- **Craig, B.**, and McSweeney, K., *Introduction to Safety Culture and Leading Indicator Assessment for <Industry Partner>*, Singapore, April 2014
- McSweeney, B., and **Craig, B.**, *Introduction to the Mariner Personal Safety Project for <Industry Partner>*, Singapore, April 2014
- **Craig, B.**, and McSweeney, K., *Safety Culture and Leading Indicator Assessment Kick-Off for <Industry Partner>*, Singapore, April 2014
- **Craig, B.**,

- McSweeney, K. and **Craig, B.**, Maritime Personnel Safety Project. *National Safety Council, Waterborne Transport Group*, Houston, Texas, April 2010
- McSweeney, K. and **Craig, B.**, Maritime Personnel Safety Project. *Ship Operations Cooperative Program*, Houston, Texas, April 2010
- **Craig, B.**, *Leading Indicators of Safety Performance and Safety Culture Analysis*, A. P. Moller-Maersk, Copenhagen, Denmark, 2009
- Elliot, B. and **Craig, B.**, *Evaluation of Off-the-Job Injuries*, CenterPoint Energy, Beaumont, Texas, 2003
- **Craig, B.**, *Validation of Ergonomic Criteria contained in the ABS Guidance Notes for the Application of Ergonomics to Marine Systems*, American Bureau of Shipping, Houston, Texas, 2001
- **Craig, B.**, Fillyaw, J., and Joubert, B., *Ergonomic Chair Field Evaluation and Comparison*, Neutral Posture, Inc., Bryan, Texas, 2001
- **Craig, B.**, *Ergonomics in the Potrooms*, Alcoa, Inc. – Tennessee Operations, Alcoa, Tennessee, February 2000
- **Craig, B.**, *State of Ergonomics at the Tennessee Smelter*, Alcoa, Inc. – Primary Metals Ergonomics Conference, Wenatchee, Washington, September 1999
- **Craig, B.**, *The Relationship of Occupational, Non-Occupational, Personal, and Psychosocial Risk Factors with the Health Outcome of Occupational Injury in Manual Materials Handling Jobs: A Prospective Field Study - Update*, National Science Foundation Industry/University Cooperative Research Center in Ergonomics at Texas A&M University – Industry Advisory Board, College Station, Texas, April 1999
- **Craig, B.**, *State of Ergonomics and Safety within the Primary Metals Division*, Aluminum Company of America – Primary Metals Smelting Operational Lead Team Meeting, Badin, North Carolina, April 1998
- **Craig, B.**, *Ergonomics Awareness*, Aluminum Company of America
 - Warrick Operations' Safety School, April 1998
 - Tennessee Operations' Recalled Employee Safety Training, June 1998
- **Craig, B.**, *Industrial Ergonomics*, Aluminum Company of America
 - Warrick Operations' Ergonomics Committee, Three-Day Training Course, March 1998
 - Tennessee Operations' Ergonomics Committee, Three Day Training Course, February 1998
 - Wenatchee Works' Ergonomics Committee, Three Day Training Course, January 1998
 - Massena Operations' Ergonomics Committee, Three Day Training Course, January 1998
- **Craig, B.**, *Introduction to Ergonomics in Design*
 - Aluminum Company of America – Tennessee Operations' Engineering Staff, Alcoa, Tennessee, March 1998
 - Fluor Daniel/Alcoa Partnership Engineering Staff, Greenville, South Carolina, March 1998
 - SNC Lavalin/Alcoa Partnership Engineering Staff, Montreal, Canada, February 1998
- **Craig, B.**, *Ergonomics in the Office*

- McSweeney, K. and **Craig, B.**, Assessment of the Habitability and Ambient Environmental Characteristics of the Genesis and Typhoon Offshore Installations - American Bureau of Shipping, Houston, Texas, 2003
- **Craig, B.**, *Vessel Motion and its Effect on Human Fatigue* – American Bureau of Shipping, Houston, Texas, 2003
- **Craig, B.**, *Framework Preparation for the American Bureau of Shipping Guidance Notes on the Application of Ergonomics to Marine Systems Evaluator’s Checklist* – American Bureau of Shipping, Houston, Texas, 2002
- **Craig, B.**, *Ergonomic Chair Field Evaluation and Comparison*, Tempur-Pedic, Inc. Lexington, Kentucky, 2002
- **Craig, B.**, *Ergonomic Chair Field Evaluation and Comparison II*, Neutral Posture, Inc., Bryan, Texas, 2002
- **Craig, B.**, *Comparison of the Existing ABS Guidance Notes on the Application of Ergonomics to Marine Systems Criteria with the American Bureau of Shipping Guide for Crew Habitability on Ships* – American Bureau of Shipping, Houston,

Reviews/Conference Session Chairs

- **Craig, B.**, Review of a proposed peer-reviewed journal article, Psychophysical Responses of Front Cradle Carry and Piggy Back Carry in Emergency Situations, *International Journal of Occupational Safety and Ergonomics (JOSE)*, March, 2018
- **Craig, B.**, ASTM Draft Review of *Best Practice for Safety Culture in the Maritime Industry*, Ocean Energy Safety Institute (OESI), Houston, Texas, October 2016.
- **Craig, B.**, Session Chair for *the 4th Annual Texas STEM Conference (Session 2B)*, Lamar University, Beaumont, Texas, October 2016
- **Craig, B.**, Session Chair for *A Forum for Dialogue: Focusing on Alarm Management for Safer Offshore Operations, Session II: The Way Forward for Alarm Management*, Ocean Energy Safety Institute (OESI), Houston, Texas, August 2016
- **Craig, B.**, ASTM Draft Review of *Best Practice for Fatigue Mitigation, for Fatigue Prevention for Marine and Mariner Use*, July 2016.
- **Craig, B.**, Review of a proposed new textbook, *Ergonomics and Human Factors in Safety Management*, Eds. Arezes, P. and de Carvalho, P., CRC Press, September 2014
- **Craig, B.**, Review of a PhD Thesis, Ergonomic Study of Manual Material Handling Tasks in Construction, Indian Institute of Technology, Kharagpur, India, June 2013
- **Craig, B.**, Review of a proposed peer-reviewed journal article, The Association of Aerobic Fitness with Injuries in the Fire Service, *American Journal of Epidemiology*, April, 2013
- **Craig, B.**, Studies in Safety Session Chair, *2010 Industrial Engineering Research Conference*, June 2010
- **Craig, B.**, Review of a proposed peer-reviewed conference proceeding article, A Comprehensive Assessment of Workload Exposure Variables, *Proceedings of the 2010 Industrial Engineering Research Conference*, February 2010
- **Craig, B.**, Review of a proposed peer-reviewed conference proceeding article, Modeling Human Performance in Chemical Protective Suits, *Proceedings of the 2010 Industrial Engineering Research Conference*, February 2010
- **Craig, B.**, Review of a proposed peer-reviewed conference proceeding article, Bone Conduction Intelligibility: Headset Comparison Study, *Proceedings of the 2010 Industrial Engineering Research Conference*, February 2010
- **Craig, B.**, Review of a proposed peer-reviewed conference proceeding article, Fatigue Curves in Tomato Packers in Jalisco, Mexico, *Proceedings of the 2010 Industrial Engineering Research Conference*, February 2010
- ANSI Canvass Reviewer for the Proposed New Draft of BIFMA X5.1-2010, Proposed American National Standard for Office Furniture, General Purpose Office Chairs – Tests, *The Business and Institutional Furniture Manufacturer's Association (BIFMA)*, January 2010
- **Craig, B.**, Second review of a proposed peer-reviewed journal article, Musculoskeletal Injuries Resulting from Patient Handling Tasks among Hospital Workers, *American Journal of Industrial Medicine*, February 2009

- Member – Engineering Mathematics Curriculum Committee (2004)
- Member – Student-Faculty Relations Committee, College of Engineering (2003 – 2009)
- Member – HEAF Funding Allocation Committee (2003 – 2007)
- Member – University Professor/Merit Award College Committee (2002, 2007, 2009, 2010)

Department Service

- Chair – Visiting Assistant Professor and Instructor Search Committee (2018)
- Recruiting visits (San Jacinto, Lee, Lonestar, etc.) (2015 – 2019)
- Chair – Multimedia Producer Search Committee (2016)
- Chair – Assistant Professor Search Committee (3 positions) (2015 – 2016)
- Chair – Administrative Director Search Committee (2015 – 2016)
- Chair – Assistant Professor Search Committee (2013 – 2014)
- Chair – Technician Search Committee (2013 – 2015)
- Chair – Instructor Search Committee (2013 – 2014)
- ABET and SACS reports (2006 – present)
- Numerous Departmental ABET Committees (2005 – present)
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- Representative, The Port of Houston Partners in Maritime Education (PHPME) (2016 – 2018)
- Advisory Council Member, Ocean Energy Safety Institute (OESI) Advisory Council, The Ocean Energy Safety Institute (OESI) is a collaborative initiative between the Texas A&M Engineering Experiment Station's (TEES) Mary Kay O'Connor Process Safety Center, partnering with Texas A&M University, University of Texas and University of Houston (2015 – 2019)
- Member, Council of Industrial Engineering Academic Department Heads (CIEADH), Institute of Industrial and Systems Engineering (2010 – 2019)
- ABET Program Evaluator (PEV) (2009 – 2019)
- Member, International Organization for Standardization, Technical Committee 159, SC 5 (ISO TC159/SC5), *Ergonomics of the Physical Environment*, 2008 – 2013
- Invited Keynote Speaker, Jefferson County Go-Texan Scholarship Banquet – Beaumont, Texas, May 2008 – 2012

External Promotion and Tenure Review

- University of Michigan-Dearborn, tenure and promotion to associate professor (2017)
- Texas A&M University, tenure and promotion to associate professor (2013)

Licenses, Certifications, Honors, and Offices Held

- Professional Engineer, Texas Board of Professional Engineers (2007 – Present)