

# Brian Nichols Craig, PhD, PE, CPE

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

### Academic Experience

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

### College/Departmental/Center/Initiative Leadership

- x Over the past ten 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:
  - The College of Engineering welcomed the Flowserve Education Resource Center (summer 2022)
  - Established the \$2.1M Emerson Advanced Technology Center (fall 2021). The first industry named space in Lamar University's College of Engineering.



## Work Experience

- x Owner, Harmonic Work Science, Safety, Human Factors and Ergonomic Consulting, Beaumont, Texas, August 2001 – Present
  - o Human Factors, Ergonomics and Safety Engineering Expert Witnessing (~27 cases) (2006 – present)
  - o *Literature Review – Benefits of Sit-Stand Workstations*, Altec Industries, Inc., Birmingham, Alabama (2016)
  - o *Safety Assessment*, Southern Avionics, Beaumont, Texas (2013 – 2014)
  - o *Office and Control Room Ergonomic Assessment*, Veolia Environmental Services, Port Arthur, Texas (2012 – 2013)
  - o *Ergonomic Assessment*, American Valve and Hydrant, Beaumont, Texas (2012)
  - o Development Maintenance and Materials Handling sections of *Ergonomics Guide*, American Bureau of Shipping, Houston, Texas (2011 – 2012)
  - o Review of *Guidance Notes of Human Factors Engineering into the Design of Offshore Installations*, American Bureau of Shipping, Houston, Texas (2011)
  - o Development of *Human Factors and Ergonomics Toolbox Talks*, American Bureau of Shipping, Houston, Texas (2010)
  - o Review of *Human Factors, Ergonomics and Bridge Resource Management Activities of Various Class Societies*, American Bureau of Shipping, Houston, Texas (2009 – 2010)
  - o Technical Editor of *Introduction to Human Error Two-Day Training Course*, ABS Academy, American Bureau of Shipping, Houston, Texas (2009)
  - o Development of the *Ambient and Environmental Guidance Note*, American Bureau of Shipping, Houston, Texas (2008 – 2010)
  - o Development of the *Human Factors Engineering Toolkit*, American Bureau of Shipping, Houston, Texas (2008 – 2010)
  - o Development of the *Crew Habitability One-Day Training Course*, ABS Academy, American Bureau of Shipping, Houston, Texas (2008)
  - o *Office Ergonomics Evaluation*, Nalco, Beaumont, Texas (2007)
  - o *Human Performance in Inspection*, American Bureau of Shipping, Houston, Texas (2006 – 2007)
  - o *Forward Functional Reach*, Altec Industries, Inc., Birmingham, Alabama (2007)
  - o *Analysis of Incident Investigation and Root Cause Software*, American Bureau of Shipping, Houston, Texas (2007)
  - o *Human System Integration (HSI) Checklist for Military Vessels*, American Bureau of Shipping, Houston, Texas (2006 – 2007)
  - o *Guide for Means of Access to tanks and holds for Inspection*, American Bureau of Shipping, Houston, Texas (2005 – 2006)
  - o *Controller Dynamics*, Altec Industries, Inc., Birmingham, Alabama (2004 – 2005)
  - o *Laboratory Ergonomic Evaluation*, Intercontinental Terminals Company, Deer Park, Texas (2004)
  - o *Effect of Fatigue on Human Error and Task Performance on Navigational Bridges*, American Bureau of Shipping, Houston, Texas (2002 – 2003)
  - o *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)
- x Potroom Supervisor/Vacation Relief Shift Coordinator/Ergonomics Committee Leader, Tennessee Operations, Alcoa Inc., Alcoa, Tennessee, August 1998 – January 2001
- x Ergonomics and Safety Specialist, Primary Metals Division, Alcoa Inc., Knoxville, Tennessee, September 1997 – August 1998
- x Ergonomic Consultant, Compaq Computer Corporation, Corporate Safety and Health, Houston, Texas, June 1997 – August 1997
- x Wellness Program Instructor, Ergonomics and Physical Stressors, United States Department of Agriculture, Food Safety and Inspection Service, College Station, Texas, March 1997 – August 1997
- x Ergonomic Internship, Compaq Computer Corporation, Corporate Safety and Health, Houston, Texas, December 1996 – May 1997
- x Ergonomic Consultant, Pathway Industries, Bryan, Texas, August 1996 – August 1997
- x Ergonomic Consultant, Browning Ferris Industries, Houston, Texas, August 1996 – December 1996
- x Ergonomic Research Associate, Texas A&M University, National Science Foundation Industry/University Cooperative Research Center in Ergonomics, College Station, Texas, November 1995 – August 1997
- x Industrial Engineering Internship, United Parcel Service, Corporate Industrial Engineering, Atlanta, Georgia, November 1994 – October 1995
- x Ergonomic Consultant, Pathway Industries, Bryan, Texas, October 1992 – October 1994
- x Ergonomic Consultant, Capital Anesthesiology Association, Austin, Texas, September 1993 – November 1993

## Education/Training

### Education

- x PhD, Interdisciplinary Engineering, Texas A&M University, College Station, TX, 2000  
Major Field: Human Factors Engineering, Ergonomics, and Safety Engineering  
Minor Field: Statistics. Dissertation: *The Relationship of Occupational, Non-Occupational, Personal, and Psychosocial Risk Factors with Occupational Injury in Manual Materials Handling Jobs: A Prospective Field Study*. Committee Chair: Jerome J. Congleton, PhD, PE, CPE
- x MS, Industrial Engineering, Texas A&M University, College Station, TX, 1995

Major Field: Human Factors Engineering, Ergonomics, and Safety Engineering  
Minor Fields: Physiology and Engineering Management. Thesis: *Correlation of Injury Occurrence Data with Estimated Maximal Aerobic Capacity and Body Composition in a High-Frequency Manual Materials Handling Task*. Committee Chair: Jerome J. Congleton, PhD, PE, CPE

- x BS, Industrial Engineering, Texas A&M University, College Station, TX, 1992
- x BS, Bioengineering, Texas A&M University, College Station, TX, 1990

#### Training

- x Ethics Professional Development (1 hour), Texas Board of Professional Engineers and Land Surveys, Beaumont, TX (online), December 2021
- x Midstream Engineering Three-day Course (24 hours), GPA Midstream Association, Lamar University, Beaumont, Texas, November 2020
- x Ethics Professional Development (1 hour), Texas Board of Professional Engineers and Land Surveys, Beaumont, TX (online), August 2020
- x 2020 Hurricane Season in a Pandemic, Center for Advances in Port Management, Lamar University, Beaumont, Texas, June 2020
- x Port Emergency Response Planning Workshop, Center for Advances in Port Management, Lamar University, Beaumont, Texas, April 2018
- x Second Annual Symposium – Resilient Port and Transportation Infrastructure in 2020, Center for Advances in Port Management, Lamar University, Beaumont, Texas, April 2018
- x Port and Marine Terminal Physical Security: Key Issues and Trends, Including Regulation, Technology, and Workforce Development, Center for Advances in Port Management, Lamar University, Beaumont, Texas, March 2018
- x Risk Analysis Workshop, Center for Advances in Port Management, Lamar University, Beaumont, Texas, February 2018
- x Planning for the Next Disaster, Center for Advances in Port Management, Lamar University, Beaumont, Texas, December 2017
- x INFORMS Academic Leadership Workshop, October 2017
- x PEV Pre-visit Preparation Proficiency Assessment, ABET, October 2017
- x Training for Accreditation Visits Outside the United States, ABET, October 2017
- x TBPE-Professional Engineering Practice Update/Ethics, Texas Board of Professional Engineers, Webinar, December 2016
- x *Dredging your Docks 2015*, Beaumont, TX, December 2015
- x Completed *Brownwater University*, Houston, TX, September 2015
- x PEV Pre-visit Preparation Proficiency Assessment, ABET, September 2015
- x The National Society of Professional Engineers Code of Ethics, Received at the Southeast Texas International Society for Automation Expo, Beaumont, TX, October 2014
- x PEV Pre-visit Preparation Proficiency Assessment, ABET, October 2013
- x The National Society of Professional Engineers Code of Ethics, College of Engineering, Lamar University, Beaumont, Texas, May 2013

x Disability Compliance Training, Center for Teaching and Learning Enhancement, Lamar University, Beaumont, Texas, April 2013

x The National Society of Professional Engineers Code of Ethics, Department of Continuing Education, Lamar University, Beaumont, Texas, May 2012

x Program Evaluator JIT Checks for Understanding, Accreditation Board of

Technology (ABET), October x The National Society of Professional Engineers Code of Ethics, Department

x Program Evaluator Refreshment Board

Technology (ABET), May 2013

Technology (ABET), May 2013

Technology (ABET), May 2013

The National Society of Professional Engineers Code of Ethics, Department of

Continuing Education, Lamar University, Beaumont, Texas, May 2012

Program Evaluator JIT Checks for Understanding, Accreditation Board of

Technology (ABET), Phoenix

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- *The Analysis and Classification of Near Miss Data in the Maritime Industry, Including the Use of Text Mining Software* (2010 – 2014)
  - *Safety Culture Data Analysis Methods* (2010 – DNF)
  - *Analysis of Safety Culture in the Maritime Industry* (2008 – 2011)
- x Committee Chair/Co-Chair for the following Master's Theses
- *Cleaning Safety Records Using Text Mining Algorithms* (2011 – 2012) (Co-Chair)
  - *Effect of Cooling Suits (Race Suits) on Task Performance in Hot Environments for the Power Industry* (2004)
  - *Analytic Assessment of the Effect of Varying Schedules, Trade Routes and Sea States on Navigation Bridge Crew* (2003)
  - *A Field Investigation / Verification of Transportation Methods of Laptop Computer and Peripheral Equipment* (2003)
- x Committee Member for the following Doctoral Dissertation
- *A Preliminary Investigation of Driver Vigilance in Automated Vehicles in Real Traffic Environments* (2018 – 2022)
  - *Quantifying Waterway Traffic Conditions Using AIS Data and Optimizing Vessel Schedule: A Case Study of the Houston Ship Channel* (2018 – 2021)
  - *Quantifying and Predicting Waterway Traffic Conditions: A Case Study of the Houston Ship Channel* (2018 – 2021)
  - *Big Data-Based Exploration of Contributing Factors to Traffic Accidents in Southeast Texas and an Experimental Validation* (2016 – 2020)
  - *The Use of Near Misses in the Maritime Industry; Focusing on Cranes* (2015 – 2018)
  - *Cleaning Large Data Sets by Coordinating Machine Learning and Manual Approach* (2015 – 2019)
  - *Knowledge-Base Application for Recommending Similar Safety Incidents in Large Datasets* (2015 – 2018)
  - *An Analysis of Workers' Attitudes Toward Safety Culture in the Maritime Industry* (2013 – 2016)
  - *An Analysis of Workers' Attitudes Towards Safety Culture in the Maritime Industry* (2012 – 2016)
  - *Using Natural Language Generation to Document Portfolio Performance: An Optimization Approach for Content* (2012 – 2014)
  - *Inventory Metrics for Lead Time Focused Manufacturing* (2011 – 2013)
- x Committee Member for the following Master's Theses
- *Evaluation of Holographic Heads-up Display to Enhance Driving Safety* (2017 – 2018)
  - *The Effect of Smartphone Screen Size on Usability and Users' Discomfort* (2017 – 2018)
  - *The Effect of Background Music on Cognitive Task Performance* (2016 – 2017)
  - *EMG Analysis of Muscle Pump and Associated Lower Extremity Volume Change in Humans for Various Activities* (2016 – 2017)
  - *Study With Fun: Development of a Game-based and Haptically Enhanced Application* (2016 – 2017)





## Research Interests

Human factors, ergonomics, and safety engineering. Leading safety indicators, safety culture, injury/illness causation/reduction, close calls (near misses), maritime, offshore

## Grants/Contracts/Projects

- x *A Railyard Management Optimization Software – Phase II: Iron Horse Terminal Application-Phase II*, Iron Horse Terminals, \$100,000, December 2020 – December 2021. M. Hamidi – Principal Investigator with Co-PI: B. Craig
- x *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: B. Craig
- x Gulf Research Program, National Academies of Sciences, Engineering, and Medicine, Safer Offshore Energy Systems Grants 4, Washington, DC, *Development of a Framework and Roadmap for an Effective Near-miss and Incident Reporting System*, B. Craig – Project Director (PI) with Key Personnel: K. McSweeney, J. Curry, W. Zhu, J. Pray, M. Hamidi, Y. Li and K. Das. Submitted April, 2019 for January 2020 – August 2022. Budget Requested \$1,908,670. Lamar University lead with the American Bureau of Shipping and University of Houston subawards. Not awarded, October 2019.
- x Gulf Research Program, National Academies of Sciences, Engineering, and Medicine, Safer Offshore Energy Systems Grants 4, Washington, DC, *Developing an Integrated Offshore Energy Industry Safety Culture Evaluation and Improvement Toolbox*, K. McSweeney – Project Director (PI) with Key Personnel: S. Arendt, B. Craig, J. Curry, W. Zhu, and J. Pray. Submitted April, 2019 for January 2020 – August 2022. Total Budget Requested \$1,439,830. Lamar University's Budget \$279,059. With the American Bureau of Shipping (Lead Organization). Funded, January 2020.
- x Gulf Research Program, National Academies of Sciences, Engineering, and Medicine, Safer Offshore Energy Systems Grants 4, Washington, DC, Letter of Intent for *Integrated Approach for Offshore Energy HSE Performance Assurance*, S. Arendt – Project Director (PI) with Key Personnel: K. McSweeney, B. Craig, and M. Mower. Submitted April, 2019 for January 2020 – December 2020. Total Budget Requested \$651,904. Lamar University's Budget Request \$70,249. With the American Bureau of Shipping (Lead Organization). Not awarded, October 2019.
- x Proposal for Science and Technology Building Space Allocation, Lamar University, Beaumont, Texas, B. Craig – Principal Investigator with Co-PI's: X. Liu, and H. Zargarzadeh (Summer 2018 – Spring 2019). Not awarded.
- x *Offloading Ship Terminal: Containers on, Containers Off Platform Exploratory Animation*, feasibility study, B. Craig – Principal Investigator with Co-PI's: M. Hamidi, and X. Liu (Spring 2018 – Fall 2019)
- x American Bureau of Shipping/US Department of Transportation – Maritime Administration (MARAD)/Lamar University, *Near Miss/Injury Databases*, Houston, Texas/Washington DC, B. Craig – Principal Investigator with Co-PI's: J. Curry, and W. Zhu (Summer 2018 – Summer 2020). Included in the Mariner Safety Program.

- x *Safety Culture Assessment*, American Bureau of Shipping, Houston, Texas, B. Craig – Principal Investigator with Co-PI's: J. Curry, and W. Zhu (Summer 2018 – Summer 2020). Included in the Safety Culture/Leading Indicators of Saap\$ S0 Safroject./

- senior personnel J. Curry, N. Brake, S. Shoefstall, K. Hinerman, N. Delatte (Fall 2017 – Summer 2022), Budget Requested \$1,893,744. Not funded.
- x *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 Budget Request \$345,430; Lamar University's Budget Request \$77,656. With the American Bureau of Shipping Group Consulting, Inc. (Lead Organization), not funded.
  - x *Center for Seaport Resilience Research, Development, and Education (C-SRDE)*, U.S. Department of Transportation, University Transportation Center, Tier One, Lamar University (Subaward) B. Craig – Principal Investigator with 20 Lamar University Co-PIs, Submitted Spring 2016; Proposed Effective Dates 2017 – 2022, Year 1 Budget Request: \$350,791 from Sponsor, \$176,876 from Lamar University, Center for Advances in Port Management Matching Funds. With University of Memphis (Lead Institution), Principal Investigator, M. Golias, Stevens Institute of Technology (Subaward), Tuskegee University (Subaward), West Kentucky Community and Technical College (Subaward), Florida A&M University (Subaward), and Missouri University of Science and Technology (Subaward), not funded.
  - x *MRI: Development of a Hybrid Brain-Computer Interface-based Rehabilitation System*, National Science Foundation (NSF), Y. Li – Principal Investigator with Co-PI's J. B. Craig, W. Zhu (Fall 2015 – Summer 2018), Budget Request \$237,856, not funded.
  - x University Scholar – Research Enhancement Grant, Lamar University, B. Craig – Principal Investigator (Fall 2014 – Summer 2016) \$5,000.
  - x Preliminary Bridge/Rail Assessment, Port of Beaumont, M. Safa – Principal Investigator with Co-PI B. Craig (Fall 2015).
  - x Safety Culture Assessment, American Bureau of Shipping, Houston, Texas, B. Craig – Principal Investigator with Co-PI's: J. Curry, W. Zhu (Summer 2012 – Fall 2013).
  - x Determination of Ladder Rung Design for Fixed Vertical Ladders in Maritime Environments – Research Enhancement Grant, Lamar University, B. Craig – Principal Investigator (Fall 2010 – Spring 2011) \$5,000.
  - x Leading Safety Indicators and Safety Culture Audit in the Maritime Industry, American Bureau of Shipping, Houston, Texas, B. Craig – Principal Investigator with Co-PI: K. Das (Spring 2008 – Fall 2011) \$169,914.
  - x Online Education Initiative: Course Development Grant for INEN 3300, Introduction to Industrial Engineering, Lamar University, B. Craig – Instructor (January 2009 – December 2009) \$1,000.
  - x The Implementation of Human Factors Engineering in to the Design of Offshore Installations, American Bureau of Shipping, Houston, Texas, B. Craig – Principal Investigator (Spring 2008) \$4,429.
  - x Analysis of Habitability Measurements on Offshore Supply Vessels for Offshore Supply Vessels, American Bureau of Shipping, Houston, Texas, B. Craig – Principal Investigator (Spring 2007) \$1,500.



- x *A Proposal for the Collaboration Between Lamar University and the National Science Foundation Industry/University Cooperative Research Center in Ergonomics at Texas A&M University* – Research Enhancement Grants, Lamar University, B. Craig – Principal Investigator (Fall 2001) \$4,275
- x *Evaluation and Analysis of Buttock-Thigh Pressures Associated with Four Different Ergonomic Chair Models: A Field Study* – Neutral Posture, Inc., Bryan, Texas, B. Craig – Principal Investigator (Summer 2001) \$8,685
- x *Manual Materials Handling Field Studies* - National Science Foundation Industry/University Cooperative Research Center in Ergonomics at Texas A&M University, Investigative Team Leader (1996 – 2000) \$126,000
- x *NIOSH/Energy Expenditure Local Field Studies* - National Science Foundation Industry/University Cooperative Research Center in Ergonomics at Texas A&M University, Investigative Team Leader (1995 – 1996) \$102,000

## Publications and Presentations

### Peer Reviewed Journal Publications

- x Li, G., Li, Y, Craig, B ., & Liu, X. (2022). Investigating the effect of contextual factors on driving: An experimental study. *Transportation Research Part F: Traffic Psychology and Behaviour*, 88, 69-80. <https://doi.org/10.1016/j.trf.2022.05.007>
- x Yi, G., Yi, Y., Li, Y., Craig, B. and Wu, X., Investigation of Contributing Factors to Traffic Crash Severity in Southeast Texas Using Multiple Correspondence Analysis, *Journal of Road Safety*, 32(4), 15-28 <https://doi.org/10.33492/JRS-D-21-00051>, November 2021.
- x Zohoori, S., Jafari, M., Hamidi, M. and Craig, B . A Vectorized Algorithm for Waterway Traffic Analysis Using AIS Data. *Journal of Ocean Technology*. Vol. 16, No. 4, 2021.
- x Abbasi, E., Li, Y., Wu, X., and Craig, B. Using Classification and Regression Trees (CART) to Identify Factors Contributing to Vehicle Crash Severity in a Port City, *International Journal of Transportation Systems*, 6, 29-38, November 2021.
- x Li, G., Li, Y., Li, Y., Craig, B ., & Wu, X. (2021). Investigation of contributing factors to traffic crash severity in Southeast Texas using multiple correspondence analysis. *Journal of Road Safety*, 32(4), 15–28.
- x Cho, J., Craig, B ., Hur, M., and Lim, J., A Novel Port Call Optimization Framework: A Case Study of Chemical Tanker Operations, *Applied Mathematical Modelling*, <https://doi.org/10.1016/j.apm.2021.09.037>, October 2021.
- x Wu, X., Hamidi, M., Roy, U., and Craig, B. Estimated travel time of ships in narrow channel based on AIS data, *Ocean Engineering*, DOI: [10.1016/j.oceaneng.2019.106790](https://doi.org/10.1016/j.oceaneng.2019.106790), March 2020.
- x Rahimi, B., Hamidi, M., Mohassel, A., and Craig, B . (2020) Imperfect condition-based maintenance strategy for a deteriorating rail track system with multiple competitive failure modes. *Transportation Engineering, Part A: Systems*, 146(9), 04020088.
- x Mahesh, V8, Novembs0002 T2f3169T2 1 Tf 9.8142 0 TD .0004 Tc .0005 Tw (Craig, B)Tj /TT6 1 Tf 3.8



Peer Reviewed Conference Publications

x Wari, E., Curry, J., Zhu, W., Craig, B., Hussain, M., Haces-Garcia, A., Idahosa, O.,

- x Zhu, W., Curry, J., Craig, B., Zhou, J., Chu, H., and Yoo, J., SCOPE STEM Scholarship Program for Industrial and Mechanical Engineering Students, *Proceedings of the 2018 Institute of Industrial and Systems Engineering Annual Conference*. May 2018
- x Syed, U., Patil, M., Li, Y., & Craig, B. (2017). Ergonomics Evaluation of a Manual Braking System for Skateboards. In *Proceedings of International Conference on Applied Human Factors and Ergonomics*, 157-164.
- x Yesodha, K., Narasimhan, V., Li, Y., & Craig, B. (2017). Ergonomic Evaluation of Videogame Controllers. In *Proceedings of International Conference on Applied Human Factors and Ergonomics*, 384-391.
- x Mahesh, V., Li, Y., and Craig, B. (2017). Effect of walking, running and gradients on muscle pump and edema. In *Proceedings of International Conference on Applied Human Factors and Ergonomics*, 335-342.
- x Mahesh, V., Li, Y., & Craig, B. (2017). Effect of flooring on lower extremity discomfort during food service tray-line jobs. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, 950-954.
- x 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.
- x 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 124<sup>th</sup> Annual Conference and Exposition*, Columbus, OH, June 2017
- x 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
- x Safa, M. and Craig, B., Maritime and Port Activity Analysis Tool. *Advances in Human Aspects of Transportation (Proceedings of the 7<sup>th</sup> International Conference on Human Factors)*, Orlando, Florida, January 2017
- x 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



- x 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
- x 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
- x 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
- x 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
- x Tomlinson, C., Craig, B., and Meehan, M., Enhancing Safety Performance with a Leading Indicators Program. *Proceedings of the Royal Institution of Naval Architects (RINA) International Conference on Human Factors in Ship Design and Operations*, London, England, November 2011
- x McSweeney, K. and Craig, B., Mariner Safety Near Misses Influencing Design. *ErgoShip 2011, Proceedings of The First Conference on Maritime Human Factors*, Gothenburg, Sweden, September 2011
- x Craig, B., Das, K., and Khago, A., Shipboard and Shore Side Perception of Safety Culture. *Proceedings of the 2010 Industrial Engineering Research Conference*, Cancun, Mexico, June 2010
- x Craig, B., Congleton, J., Kerk, C., Amendola, A., Gaines, W., and Das, K., Potential Psychosocial Risk Factors and Occupational Injury/Illness. *Proceedings of the 2010 Industrial Engineering Research Conference*, Cancun, Mexico, June 2010
- x McSweeney, K., Pray, J., and Craig, B., Integration of Human Factors Engineering into Design – An Applied Approach. *Proceedings of the Royal Institution of Naval Architects (RINA) Human Factors Conference*, London, February 2009
- x McSweeney, K., Craig, B., Congleton, J., and Miller, D., Ergonomic Program Effectiveness for Office and Laboratory Workers, *Proceedings of the 47<sup>th</sup> Annual Human Factors and Ergonomics Conference*, Human Factors and Ergonomics Society, October 2003
- x Spigener, J., Gaupreaux, G., Amato, F., and Craig, B., Effective Application of Behavioral Based Processes in Offshore Operations. *Proceedings of the 2<sup>nd</sup> International Workshop on Human Factors in Offshore Operations*, Workshop held in April 2002, Revised proceedings published May 2003
- x Dede, K., White, K., and Craig, B., Performing Equipment Review in the Field Rather Than At the Factory, *Proceedings of the Applied Ergonomics Conference*, Institute of Industrial Engineers, March 2003
- x Craig, B., Fillyaw, J., and Joubert, B., Analysis of Buttock-Thigh Pressure of Five High End Ergonomic Office Chairs: A Field Study. *Proceedings of the Industrial Engineering Research Conference*, May 2002

## Peer Reviewed Conference/Symposium Presentations/Posters

- x Wari, E., Curry, J., Zhu, W., Craig, B., Hussain, M., Haces-Garcia, A., Idahosa, O, Zeni, E. and Seshasaikrishna, G., Describing Offshore Safety Culture with a Multi-Component Toolkit Approach, The Mary Kay O'Conner Safety and Risk Conference, Texas A&M Engineering Experiment Station, October 2022.
- x Lou, N., Wari, E., Curry, J., McSweeney, K., Curtis, R., Craig, B., Hussain, M. and Zhu, W., Identifying Key Safety Factors for the Offshore Safety Culture, *The Society of Naval Architects and Marine Engineers (SNAME) Offshore Symposium*, April 2021.
- x Jafari Kang, M., Zohoori, S., Hamidi, M., and Craig, B., "A vectorized AIS-based algorithm for waterway traffic feature analysis: A case study of Houston Ship Channel". Transportation Research Board, Washington DC, January 2021.
- x Zohoori, S., Jafari Kang, M., Hamidi, M., and Craig, B., "Using Automatic Identification System (AIS) data to quantify narrow waterways congestion: a case study of Houston Ship Channel". Transportation Research Board, Washington DC, January 2021.
- x Ebbasi, E., Morbale, P., Gubbala, S., Li, Y. and Craig, B. (2020). An Investigation in Muscle Activity of Student's Neck and Back in Various University Rooms. In W. Karwowski, R. Goossens, S. Xiong, A. Murata, R. Goonetilleke (eds): *Advances in Physical, Social & Occupational Ergonomics*, Pages 102-108.
- x Liu, Y, Li, Y. and Craig, B. (2020). Estimation of Forearm, Deltoid and Trapezius Muscle Activities to Overuse of Smartphones with and Without Armrests. In W. Karwowski, R. Goossens, S. Xiong, A. Murata, R. Goonetilleke (eds): *Advances in Physical, Social & Occupational Ergonomics*, Pages 185-191.
- x Li, G., Li, Y., and Craig, B. (2019). A Systematic Review of Musculoskeletal Disorders (MSDs) Among Port Workers. In: Goossens R. (eds): *Advances in Social and Occupational Ergonomics*, 201-211, Springer, Cham.
- x Zhu, W., Curry, J., Craig, B., Zhou, J., Chu, H., and Yoo, J., Impact of Awarding Scholarships to Current Students, *Proceedings of the 2019 American Society of Engineering Education 126th Annual Conference and Exposition*, June 2019
- x Zhu, W., Curry, J., Zhou, J., and Craig, B., SCOPE STEM Scholarship Program for Industrial and Mechanical Engineering Students, *The 2018 Institute of Industrial and Systems Engineering Annual Conference*, Orlando, FL, May 2018
- x Paul, N., Li, Y., & Craig, B. (2018). Analysis of Muscular Fatigue and Foot Discomfort While Wearing Different Types of Men's Formal Shoes. In Houston HFES Symposium, April 20, 2018, Houston, TX.
- x Mahesh, V., Li, Y., and Craig, B. (2017). Effect of Motion Type and Inclination on Muscle Activity and Edema. In Southwest HFES Symposium, June 9, 2017, San Antonio, TX.
- x Akurke, S., Li, Y., and Craig, B. (2017). Effect of screen size of Smartphone on neck and arms. In Southwest HFES Symposium, June 9, 2017, San Antonio, TX.
- x Dabiran, Y., Li, Y., and Craig, B. (2017). Evaluating the effect of music on cognitive task performance. In Southwest HFES Symposium, June 9, 2017, San Antonio, TX.

- x Hamidi, M., Tokgoz, B., Marquez, A., and Craig, B., A Framework for Port Warehouse Space Assignment Problem, *The 2017 Institute of Industrial and Systems Engineering Annual Conference*. May 2017
- x 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, *The 2017 American Society of Engineering Education 124<sup>th</sup> Annual Conference and Exposition*, Columbus, OH, June 2017
- x Shi, Y., Xiang, Y., and Craig, B., Condition-based maintenance for deteriorating transportation infrastructures, *The 2017 Institute of Industrial and Systems Engineering Annual Conference*, May 2017
- x Tomlinson, C., Craig, B., and McSweeney, K., The ABS Approach to Self-assessing Safety Culture in Maritime Organisations *Royal Institution of Naval Architects (RINA) International Conference on Human Factors in Ship Design and Operations*, London, England, September 2016
- x Illori, A., Li, Y., Mahesh, V., and Craig, B., Effect of Position: An Ergonomics Evaluation of Police Wearable Equipment. *7<sup>th</sup> International Conference on Applied Human Factors and Ergonomics*, Orlando, Florida, July 2016
- x Safa, M. and Craig, B., Maritime and Port Activity Analysis Tool. *7<sup>th</sup> International Conference on Applied Human Factors and Ergonomics*, Orlando, Florida, July 2016.
- x Chodapaneedi, T., Illori, A., Sibbadi, B., Allam, V., Gandi, 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
- x 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
- x 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
- x 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
- x 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*

- x Zhu, Z., Xiang, Y., Zhu, W., and Craig, B., *Preventive Maintenance for Port Equipment with Schedule Constraints*

- x Craig, B., Congleton, J., Kerk, C., Amendola, A., Gaines, W., and Das, K., Potential Psychosocial Risk Factors and Occupational Injury/Illness. *2010 Industrial Engineering Research Conference*, Cancun, Mexico, June 2010
- x McSweeney, K., Pray, J., and Craig, B., Integration of Human Factors Engineering into Design – An Applied Approach. *Royal Institution of Naval Architects (RINA) Human Factors Conference*, London, England, February 2009
- x Craig, B., Furtado, A. L., Chard, J. T., Zaloom, V. A., and Chu, H., Effect of Cooling Suits on Task Performance in Hot Environments for the Power Industry. *Institute of Industrial Engineers Annual Conference*, Nashville, Tennessee, May 2007
- x Craig, B., Occupational Injury/Illness Risk Factor Data in the Manual Materials Handling Industry, *Human Factors and Ergonomics Conference, Houston Chapter*, Houston, Texas, May 2005
- x Amendola, A. and Craig, B., A Holistic View of Potential Risk Factors for Workers, *Steps to a Healthier US Workforce 2004: Integrating Protection and Promotion*, National Institute for Occupational Safety and Health, Poster Session, Washington, DC, October 2004
- x Craig, B., *Relationship of Potential Personal, Non-Occupational, Occupational, and Psychosocial Risk Factors with Occupational Injury*, Musculoskeletal and 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
- x McSweeney, K., Craig, B., Congleton, J., and Miller, D., Ergonomic Program Effectiveness for Office and Laboratory Workers, *47<sup>th</sup> Annual Human Factors and Ergonomics Conference, Human Factors and Ergonomics Society*, Denver, Colorado, October 2003
- x Congleton, J., Craig, B., Benden, M., and Parker, M., Current and Future Office Ergonomic Trends, *47<sup>th</sup> Annual Human Factors and Ergonomics Conference, Human Factors and Ergonomics Society*, Poster Session, Denver, Colorado, October 2003
- x 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
- x 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
- x Craig, B., Fillyaw, J., and Joubert, B., A Field Study of Buttock-Thigh Pressures of Five Ergonomic Office Chairs, *Industrial Engineering Research Conference, Institute of Industrial Engineers Annual Conference*, Dallas, Texas, May 2002

#### Other Peer Reviewed Publications

- x ASTM Guide for the Reporting of Injuries and Illnesses for Maritime Industry, Primary Author. Approved as ASTM F3284-18 and published, April, 2018
- x ASTM Guide for the Reporting of Near Misses for Maritime Industry, Primary Author. Approved as F3256-17 and published, September, 2017

- x American Bureau of Shipping, *Guidance Notes for the Application of Ergonomics to Marine Systems*, Co-contributor (Maintenance and Materials Handling Sections), Houston, Texas, August 2013
- x American Bureau of Shipping, *Guidance Notes on Safety Culture and Leading Indicators of Safety*, Co-contributor, American Bureau of Shipping, Houston, Texas, January 2012
- x American Bureau of Shipping, *Ambient and Environmental Guidance Note*, Co-contributor, American Bureau of Shipping, Houston, Texas, February 2010
- x American Bureau of Shipping, *Means of Access to Tanks and Holds for Inspection*, Co-contributor, American Bureau of Shipping, Houston, Texas, February 2009
- x Craig, B., Ergonomics, in Wnek, G and Bowlin, G (Eds.), *Encyclopedia of Biomaterials and Biomedical Engineering*, July 2004
- x American Bureau of Shipping, *Guidance Notes for the Application of Ergonomics to Marine Systems*, Co-contributor, American Bureau of Shipping, Houston, Texas, April 2003

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

- x 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
- x 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 99<sup>th</sup> Annual Meeting*, Washington DC, January 2020
- x 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.
- x 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.
- x 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.
- x 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.
- x 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.
- x 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.
- x Kaneria, A., Li, Y., and Craig, B. (2019). Learning Drivers' Behavior Using Social Networking Service. Poster Session at the Houston HFES Symposium, Houston, TX.



## Industry Presentations

- x Craig, B., Lamar College of Engineering & Opportunities for SETX, *ISA Southeast Texas Section*, Beaumont, TX, October 2021
- x Craig, B., Lamar College of Engineering & Opportunities for Partnership, *Plant Managers Forum*, Nederland, TX, September 2021
- x Craig, B., Lamar College of Engineering & Opportunities for Partnership, *Golden Triangle Golden Roundtable*, Beaumont, TX, September 2021
- x 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
- x 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
- x 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
- x Craig, B., Curry, J., and Zhu, W., American Club/ABS/Lamar University Maritime Safety Initiative Update. *American Club and ABS*, Houston, TX, January 2019
- x Craig, B., Curry, J., and Zhu, W., American Club/ABS/Lamar University Maritime Safety Initiative Update. *American Club and ABS*, Houston, TX, August 2018
- x Craig, B., ABS/Lamar University Maritime Safety Research Initiative/Center. *Transportation Research Board, Marine Safety and Human Factors Committee (AW040)*, Washington DC, January 2018
- x Craig, B., ABS/Lamar University Maritime Safety Research Initiative/Center. *National Safety Council, Waterborne Transport Group*, Anaheim, CA, October 2016
- x Craig, B., Overview of the ABS Maritime Safety Research Initiative. *National Safety Council, Waterborne Transport Group*, Jacksonville, FL, April 2016
- x Craig, B., *Safety Data Performance Measurement for Continual Improvement*, Invited Moderator/Panelist, Ship Operators Cooperative Program (SOCP) Spring Summit, Dania Beach, FL, April 2016
- x Craig, B., Center of Advances in Port Management Update, Plant Mangers Forum, Nederland, TX, February 2016
- x Craig, B., Curry, J., and Zhu, W., Combined *Leading Indicators and Safety Culture Assessment Results to Date*, ABS, Houston, Texas, February 2016
- x Craig, B., *Port Management Initiative at Lamar University*, West Gulf Maritime Association, Sabine Area Meeting, Beaumont, Texas, October 2015
- x Craig, B., *Center for the Advances of Port Management*, National University of Singapore, Singapore, October 2015
- x McSweeney, B., and Craig, B., *Introduction to Safety Culture Assessment*, The Maritime and Port Authority of Singapore, Singapore, October 2015
- x Craig, B., and McSweeney, K., *Introduction to Safety Culture and Leading Indicator Assessment for <Industry Partner>*, Singapore, October 2015
- x McSweeney, B., and Craig, B., *Introduction to the Mariner Personal Safety Project for <Industry Partner>*, Singapore, October 2015



- x Craig, B ., *ASTM Near Miss and Injury Reporting Best Practices Update*, Ship Operators Cooperative Program (SOCP) Safety and Health Working Group, Linthicum Heights, Maryland, October 2015
- x Craig, B., ABS Project on Safety Culture and Leading Indicators of Safety – Combined Safety Culture Dataset Results. *National Safety Council, Waterborne Transport Group*, Atlanta, Georgia, September 2015
- x Craig, B . and McSweeney, K., *ASTM Near Miss and Injury Reporting Standards Update*, Ship Operators Cooperative Program (SOCP) Safety and Health Working Group, WebEx Presentation, August 2015
- x Craig, B ., McSweeney, K., Curry, J., and Zhu, W., *Maritime Near Miss Reporting*, 2015 BSEE Domestic and International Standards Workshop, Houston, May 2015
- x McSweeney. K., Craig, B ., Curry, J., and Zhu, W., *Safety Culture and Leading Indicator Assessment for <Industry Partner>*, Singapore, December 2014
- x Craig, B ., *Eliminating Barriers to Data Sharing Forum*, Invited Panelist/Presenter, Ocean Energy Safety Institute (OESI), Houston, Texas, August 2014.
- x Craig, B ., *Safety Issues and Proposed Solutions*, Invited Panelist, Ship Operators Cooperative Program (SOCP), Galveston, Texas, May 2014.
- x Craig, B ., and McSweeney, K., *Overview of Safety Culture, Leading Indicators, and Combined Safety Culture Dataset*, <Industry Partner>, Singapore, April 2014.
- x Craig, B ., and McSweeney. K., *Introduction to Safety Culture and Leading Indicator Assessment for <Industry Partner>*, Singapore, April 2014
- x McSweeney, B., and Craig, B ., *Introduction to the Mariner Personal Safety Project for <Industry Partner>*, Singapore, April 2014
- x Craig, B ., and McSweeney. K., *Introduction to Safety Culture and Leading Indicator Assessment for <Industry Partner>*, Singapore, April 2014
- x McSweeney, B., and Craig, B ., *Introduction to the Mariner Personal Safety Project for <Industry Partner>*, Singapore, April 2014
- x Craig, B ., and McSweeney. K., *Introduction to Safety Culture and Leading Indicator Assessment for <Industry Partner>*, Singapore, April 2014
- x McSweeney, B., and Craig, B ., *Introduction to the Mariner Personal Safety Project for <Industry Partner>*, Singapore, April 2014
- x Craig, B ., and McSweeney. K., *Introduction to Safety Culture and Leading Indicator Assessment for <Industry Partner>*, Singapore, April 2014
- x McSweeney, B., and Craig, B ., *Introduction to the Mariner Personal Safety Project for <Industry Partner>*, Singapore, April 2014
- x Craig, B ., and McSweeney. K., *Safety Culture and Leading Indicator Assessment Kick-Off for <Industry Partner>*, Singapore, April 2014
- x Craig, B ., *Overview of ABS Projects on Mariner Personal Safety (MPS) and Maritime Safety Research Center (MSRC)*, Cruise Lines International Association (CLIA), Videoconference, April 2014
- x McSweeney, K. and Craig, B., Update of the ABS Project on Mariner Personnel Safety (MPS). *National Safety Council, Waterborne Transport Group*, Houston, Texas, April 2013
- x Craig, B., Update of the ABS Project on Mariner Personnel Safety (MPS). *National Safety Council, Waterborne Transport Group*, Orlando, Florida, October 2012

- x Craig, B., Update of the ABS Project on Mariner Personnel Safety (MPS). *National Safety Council, Waterborne Transport Group*, Houston, Texas, April 2012
- x Craig, B., *Accident Causation-Human Error*, American Society of Safety Engineers (ASSE) Sabine Neches Chapter, Invited Speaker, Nederland, Texas, February 2012
- x McSweeney, K. and Craig, B., Mariner Personal Safety, *American Waterways Operators Inter-region Safety Committee Summer Meeting*, Invited Speaker, Houston, Texas, July 2011
- x Craig, B., *Office Ergonomics: Common Problems; Practical Solutions*, Greenspoint Area Chapter (GAC) of the International Association of Administrative Professionals (IAAP), Invited Speaker, Houston, Texas, July 2011
- x McSweeney, K. and Craig, B., Mariner Personal Safety, *American Waterways Operators Coastal Safety Committee Summer Meeting*, Invited Speaker, Las Vegas, Nevada, June 2011
- x McSweeney, K. and Craig, B., Maritime Personnel Safety Project - Update. *National Safety Council, Waterborne Transport Group*, San Diego, California, October 2010
- x McSweeney, K. and Craig, B., Maritime Personnel Safety Project. *National Safety Council, Waterborne Transport Group*, Houston, Texas, April 2010
- x McSweeney, K. and Craig, B., Maritime Personnel Safety Project. *Ship Operations Cooperative Program*, Houston, Texas, April 2010
- x Craig, B., *Leading Indicators of Safety Performance and Safety Culture Analysis*, A. P. Moller-Maersk, Copenhagen, Denmark, 2009
- x Elliot, B. and Craig, B., *Evaluation of Off-the-Job Injuries*, CenterPoint Energy, Beaumont, Texas, 2003
- x 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
- x Craig, B., Fillyaw, J., and Joubert, B., *Ergonomic Chair Field Evaluation and Comparison*, Neutral Posture, Inc., Bryan, Texas, 2001
- x Craig, B., *Ergonomics in the Potrooms*, Alcoa, Inc. – Tennessee Operations, Alcoa, Tennessee, February 2000
- x Craig, B., *State of Ergonomics at the Tennessee Smelter*, Alcoa, Inc. – Primary Metals Ergonomics Conference, Wenatchee, Washington, September 1999
- x 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
- x 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
- x Craig, B., *Ergonomics Awareness*, Aluminum Company of America
  - Warrick Operations' Safety School, April 1998
  - Tennessee Operations' Recalled Employee Safety Training, June 1998
- x 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
- x 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
- x Craig, B., *Ergonomics in the Office*
  - Aluminum Company of America – Knoxville Office Staff (Primary Metals and Rigid Packaging World Headquarters, Knoxville, Tennessee), October 1997 – August 1998
  - Compaq Computer Corporation – Main Campus, Houston, Texas, April 1997 – August 1997
- x Craig, B., *Ergonomic Evaluation of the Docutek Area in the Print Shop*, Compaq Computer Corporation, Houston, Texas, April 1997
- x Craig, B., *Correlation of Injury Occurrence Data with Estimated Maximal Aerobic Capacity and Body Composition in a High-Frequency Manual Materials Handling Task - Update*, National Science Foundation Industry/University Cooperative Research Center in Ergonomics at Texas A&M University – Industry Advisory Board, College Station, Texas, April 1997 and August 1996
- x Craig, B., *Investigation of Manual Materials Handlers and Their Environments*, United Parcel Service, February 1997
- x Craig, B., *Measurement of Maximal Aerobic Capacity and Task Energy Expenditure in Industry*, Human Factors and Ergonomics Society – Texas A&M University Chapter, College Station, Texas, October 1993
- x Craig, B., *An Ergonomic Analysis of the Turbine Overhaul at the Dansby Power Plant (Turbine Disassembly)*, Dansby Power Plant, Bryan, Texas, May 1993
- x Craig, B., *An Ergonomic Analysis of the Administration Building at the Texas Municipal Power Agency*. Texas Municipal Power Agency, Carlos, Texas, December 1992

#### Technical Papers/Reports

- x Craig, B., Curry, J., and Zhu, W., *Leading Indicators and Safety Culture Assessment for <Industry Partner>*, ABS, Houston, Texas, December 2014
- x Craig, B., Curry, J., and Zhu, W., *Safety Culture Assessment for <Industry Partner>*, ABS, Houston, Texas, November 2013
- x Craig, B., Curry, J., and Zhu, W., *Leading Indicators and Safety Culture Assessment for <Industry Partner>*, ABS, Houston, Texas, November 2013

- x Craig, B., Curry, J., and Zhu, W., *Safety Culture Assessment for <Industry Partner>*, ABS, Houston, Texas, November 2013
- x Craig, B., Curry, J., and Zhu, W., *Leading Indicators and Safety Culture Assessment for <Industry Partner>*, ABS, Houston, Texas, April 2013
- x Craig, B., Curry, J., and Zhu, W., *Safety Culture Assessment at ABS*, ABS, Houston, Texas, January 2013
- x Craig, B., Das, K., Tomlinson, C., *Leading Indicators of Safety Performance and Safety Culture Analysis*, American Bureau of Shipping, Houston, Texas, 2010
- x Craig, B., Das, K., Tomlinson, C., *Leading Indicators of Safety Performance and Safety Culture Analysis*, A. P. Moller-Maersk, Copenhagen, Denmark, 2010
- x McSweeney, K. and Craig, B., *OSV Habitability Measurements on the L&M Chermamie Botruc #39*, TR-2007-04, American Bureau of Shipping, Houston, Texas, 2007
- x Craig, B., *Ergonomic Evaluation of the Laboratory Area – Intercontinental Terminals*, Deerpark, Texas, 2004
- x 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
- x Craig, B., *Vessel Motion and its Effect on Human Fatigue – American Bureau of Shipping*, Houston, Texas, 2003
- x Craig, B., *Framework Preparation for the American Bureau of Shipping Guidance*

- x Craig, B., *Ergonomic Evaluation of the Docutek Area in the Print Shop for Compaq Computer Corporation*, Houston, Texas, 1997
- x Congleton, J., Craig, B., *Ergonomic Evaluation of Banco Popular Check Processing Procedure for Banco Popular de Puerto Rico*, San Juan, Puerto Rico, 1996
- x Congleton, J., Monford, L., and Craig, B., *An Ergonomic Evaluation of an Industrial Molding Process at Longwood Elastomers*, Brenham, Texas, 1994
- x Congleton, J., Craig, B., and M<sup>c</sup>Sweeney, K., *An Ergonomic Workstation Analysis of the Electronics Training Division at Texas A&M University*, College Station, Texas, 1993
- x Congleton, J., Al-Eisawi, K., Craig, B., Goodman, S., Key, W., M<sup>c</sup>Sweeney, K., Tso, C., and Sampanthan, S., *An Ergonomic Analysis of the Turbine Overhaul at the Dansby Power Plant (Turbine Disassembly)*, Bryan, Texas, 1993
- x Congleton, J., Arriola, D., Barnard, M., Craig, B., and Harris, M., *An Ergonomic Analysis of the Administration Building at the Texas Municipal Power Agency*, Carlos, Texas, 1992

#### Reviews/Conference Session Chairs

- x 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
- x Craig, B., ASTM Draft Review of *Best Practice for Safety Culture in the Maritime Industry*, Ocean Energy Safety Institute (OESI), Houston, Texas, October 2016.
- x Craig, B., Session Chair for *the 4<sup>th</sup> Annual Texas STEM Conference (Session 2B)*, Lamar University, Beaumont, Texas, October 2016
- x 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
- x Craig, B., ASTM Draft Review of *Best Practice for Fatigue Mitigation, for Fatigue Prevention for Marine and Mariner Use*, July 2016.
- x 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
- x Craig, B., Review of a PhD Thesis, *Ergonomic Study of Manual Material Handling Tasks in Construction*, Indian Institute of Technology, Kharagpur, India, June 2013
- x 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
- x Craig, B., Studies in Safety Session Chair, *2010 Industrial Engineering Research Conference*, June 2010
- x 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

x Craig, B.,

- x Reviewer for the peer-reviewed journal *Ergonomics* (2003 – 2008)
- x Craig, B., Review of the Textbook, *Production and Operations Analysis*, 4<sup>th</sup> Ed., by Steven Nahmias, April/May 2003
- x Craig, B., Technical Review of NIOSH Manuscript, Dart Document Tracking Number: 01-161, November, 2001.
- x Congleton, J. and Craig, B., Review of Textbook, *Occupational Ergonomics: Theory and Application* by Amit Bhattacharya and James McGlothlin, Monticello, NY: Marcel Dekker, Inc. *Ergonomics in Design*, Human Factors and Ergonomics Society, Santa Monica, CA, April 1998.

## Institutional and Professional Service

### University Service

- x Lamar University Alumni Advisory Board Member – Lamar University (2020 – 2023)
- x Lamar University Strategic Planning Core Team – Lamar University (2019 – 2020)
- x Lamar University Strategic Planning Subcommittee One – Lamar University (2019 – 2020)
- x Risk Reduction Committee, Council of Instructional Departments (CID) Representative – Lamar University (2014 – 2018)
- x Council of Instructional Departments (CID) Executive Council Member – Lamar University (2014 – 2015)
- x Council of Instructional Departments (CID) Member – Lamar University (2010 – 2019)
- x Member – Online Faculty Task Force, Lamar University (2013 – 2014)
- x University Honors Committee, Council of Instructional Departments (CID) Representative – Lamar University (2012 – 2015)
- x Member – Student-Faculty Relations Committee, Lamar University (2009 – 2012)
- x Member – Lamar University Institutional Review Board (IRB) (2007 - 2016)
- x University Undergraduate Curriculum Council (UUCC), Council of Instructional Departments (CID) Representative – Lamar University (2012 – 2015)
- x Member – University Health and Safety Committee (2007 – 2013)
- x Lamar University Rugby Club Faculty Advisor (2010 – 2012)
- x Member – Honors Program Director Search Committee (2007 – 2009)
- x Member – Online Course Evaluation Advisory Committee (2007 – 2008)
- x Senator – Faculty Senate (2005 – 2008)
- x Member – University Honors Committee (2004 – 2008)
- x Student mentor, WINGS Foundations of Excellence Mentoring Program (2004 – 2008)
- x Member – All University Speaker Search Committee (2001)

### College Service

- x Committee Chair, Development of BSIT with Automation/Instrumentation Concentration Committee (2017 – present)

- x Authored the Texas Higher Education Coordinating Board original proposal for the Masters of Science in Port and Terminal Management (2015 – 2016)
- x Authored the SACS Prospectus for the Masters of Science in Port and Terminal Management (2015 – 2016)
- x Member – Executive Director Search Committee for the Center for the Advancement of Port Management (2015 – 2016)
- x Member – William B. and Mary Mitchell Endowed Chair Review Committee – Lamar University (2014)
- x Researcher – Transportation Research Group – Texas Transportation Institute (TTI) and Center for Ports and Waterways (CPW), Lamar University Divisions (2001 – 2014)
- x Chair – Student-Faculty Relations Committee, College of Engineering (2009 – 2010)
- x Member – College of Engineering Faculty Promotion and Tenure Committees (2006 – 2009)
- x Member – Texas Department of Transportation (TX DOT), Research Management Committee (RMC) 4, Technical Advisory Panel (TAP) (2004 – 2010)
- x Member – Engineering Mathematics Curriculum Committee (2004)
- x Member – Student-Faculty Relations Committee, College of Engineering (2003 – 2009)
- x Member – HEAF Funding Allocation Committee (2003 – 2007)
- x Member – University Professor/Merit Award College Committee (2002, 2007, 2009, 2010)

#### Department Service

- x Chair – Visiting Assistant Professor and Instructor Search Committee (2018)
- x Recruiting visits (San Jacinto, Lee, Lonestar, etc.) (2015 – 2019)
- x Chair – Multimedia Producer Search Committee (2016)
- x Chair – Assistant Professor Search Committee (3 positions) (2015 – 2016)
- x Chair – Administrative Director Search Committee (2015 – 2016)
- x Chair – Assistant Professor Search Committee (2013 – 2014)
- x Chair – Technician Search Committee (2013 – 2015)
- x Chair – Instructor Search Committee (2013 – 2014)
- x ABET and SACS reports (2006 – present)
- x Numerous Departmental ABET Committees (2005 – present)
- x Undergraduate Industrial Engineering Advisor (2002 – present)
- x Alpha Pi Mu Faculty Advisor (2002 – 2014)
- x Lab and equipment acquisitions manager (2001 – 2019)
- x Member, Industrial Engineering Department Advisory Council (IEDAC) (2001 – present)
- x Member, Industrial Technology Program Advisory Council (ITPAC) (2001 – present)
- x Department of Industrial Engineering Newsletter Editor (2001 – 2018)
- x Chair – Industrial Engineering Department Tenure and Promotion Committee (2010)





- x University Merit Award, Lamar University, 2005
- x Research Enhancement Grant Award, Lamar University, 2001
- x Alpha Pi Mu - Industrial Engineering Honor Society
- x Graduate Enhancement Scholarship, 1994 – 1995

#### Professional Memberships

- x Senior Member – Institute of Industrial Engineers (2001 – Present)
- x Member – Human Factors and Ergonomics Society (1996 – Present)
- x Member – American Society of Safety Engineers (2001 – Present)
- x Member – American Industrial Hygiene Association (2001 – 2016)
- x Member – Houston Human Factors Forum (2012 – 2018)
- x Member – American Society of Engineering Education (2017 – Present)