

# William John Pate, DrPH, MBA

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## EDUCATION:

### University of Texas Health Science Center at Houston- School of Public Health

Doctor of Public Health in Environmental & Occupational Health Sciences; December 2016

Minor: Management/Leadership

Dissertation Title: Agreement Between Patient Safety Culture and Employee Safety Culture in a Healthcare Environment

### Texas A&M University – Corpus Christi

Master of Business Administration; December 2018

Concentration: Healthcare Administration

### Florida International University

Master of Public Health; April 2011

Graduate Certificate in Environmental & Occupational Health; April 2011

### The University of Texas at San Antonio, San Antonio, TX

Graduated *Magna cum laude* with Bachelor of Science in Biology, May 2007

## BOARD CERTIFICATIONS:

- Certified Protection Professional; January 2020; ASIS
- Certified Health Physicist; November 2016; ABHP
- Certified Healthcare Facility Manager- #2321; October 2014; AHA-CC
- Certified Industrial Hygienist- #10268 CP; April 2013; BGC (formerly ABIH)
- Certified Safety Professional- #24213; July 2013; BCSP
- Certified Healthcare Safety Professional- #3406; June 2012; IBCSM
- Certified Hazardous Materials Manager- #15752; August 2011; IHMM
- Certified in Public Health- #5942; May 2011; NBPHE
- Certified Laser Safety Officer- #3490; November 2010; BLS

## OTHER LICENSES, CERTIFICATIONS & REGISTRATIONS:

- Licensed Medical Physicist- Medical Health Physics Specialty; License # FMP02000044; Texas Medical Board
- Registered Specialist: Exposure Decision Analysis; #296416; August 2022; AIHA
- 40 Hour HAZWOPER [29 CFR 1910.120(e)]; October 2008; QSSI (Current on 8-hour refresher)
- DOJ Tier 1 Select Agent Clearance & 10 CFR Part 37 Trustworthy & Reliable

## WORK EXPERIENCE:

- The University of Texas Medical Branch (UTMB Health), Galveston, TX  
*Associate Vice President, Environmental Health & Safety- February 2024-Present*  
Responsible for providing leadership and technical oversight of the Environmental Health & Safety Department, including but not limited to budget development, human resource management, and strategic planning for a department of 38 full-time employees. Serves as Institutional Safety Officer, Radiation Safety Officer, and Laser Safety Officer for UTMB.
- The University of Texas Medical Branch (UTMB Health), Galveston, TX  
*Interim Associate Vice President, Environmental Health & Safety- April 2023-February 2024*  
Interim appointment as AVP, EHS on April 26, 2023. Responsible for all administrative functions of the Environmental Health & Safety Department, including but not limited to budget development, human resource management, and strategic planning for a department of 38 full-time employees. Participates in shared leadership of EHS with direct responsibility for administrative functions, radiation safety, and occupational safety. Serves as Institutional Safety Officer, Radiation Safety Officer, and Laser Safety Officer for UTMB.
- The University of Texas Medical Branch (UTMB Health), Galveston, TX  
*Program Director, Radiation & Occupational Safety- September 2015-April 2023*  
Responsibilities expanded September 1, 2016 to include Occupational Safety Program. Provides management and leadership to the UTMB Health Radiation Safety Program & Occupational Safety Program. Participates in shared leadership responsibility among EHS Programs. Acts as Radiation Safety Officer and Laser Safety Officer for UTMB. Leads and serves on several EHS-related committees. Develops & manages budgets for Radiation Safety Program & Occupational Safety Program with annual budget exceeding \$1,000,000. Led implementation of shared EHS management software used by all

EHS Programs to consolidate safety-related information resulting in improved efficiency and effectiveness. Assisted in preparation for and participated in several successful Joint Commission accreditation surveys and extension surveys. Provides supervision and leadership to 11 employees. Reports to the Associate Vice President for EHS.

- The University of Texas Medical Branch (UTMB Health), Galveston, TX  
*Principal Safety Specialist- June 2013-August 2015*  
Participated in environment of care tours of clinical departments as required by The Joint Commission. Reduced costs by developing an in-house Laser Safety Online training to be provided to researchers and health care workers using high-powered lasers. Improved efficiency and compliance within Radiation Safety by leading the replacement of the radiation safety program database and implementing a mobile inspection system. Evaluated current processes and identifies and implemented opportunities for improvement through consensus building and teamwork. Provided mentoring & leadership to 4 employees within the Radiation Safety Group. Reported to Senior Director, EHS.
- University Health System, San Antonio, TX  
*Safety Manager, Environment of Care -May 2012- June 2013*  
Monitored and developed University Health System (UHS) programs in the following areas: (1) Joint Commission on Accreditation of Healthcare Organizations (Joint Commission) Environment of Care and Life Safety Programs, (2) OSHA and Texas Department of State Health Services compliance and programs, (3) EPA, DOT and TCEQ compliance, training and record-keeping. Areas of responsibility covered approximately 6,000 employees across several locations, including the 498-bed University Hospital, two large ambulatory clinics, and 19 preventative health, urgent care & dialysis clinics throughout San Antonio. Coordinated and directed the development, implementation and management of environmental health & safety programs including, but not limited to, hot-work, lockout-tagout, fall protection, life safety, respiratory protection and hearing conservation. Assisted the Environment of Care officer with management of the Environment of Care Committee and three subcommittees. Lead a team of Environment of Care experts on weekly tours to evaluate clinical and non-clinical areas for compliance with applicable accreditation requirements and safety regulations. Provided supervision to 2 FTE employees within the Environment of Care Department. Reported to Environment of Care Officer.
- The University of Texas Health Science Center at San Antonio (UTHSCSA), San Antonio, TX  
*Environmental Health & Safety Specialist – Practitioner - April 2009- May 2012*  
Administered the UTHSCSA and UHS dosimetry program for more than 800 radiation employees with no doses exceeding annual dose limits; managed the UTHSCSA and UHS X-ray safety program and was directly responsible for achieving compliance in more than 30 regulatory x-ray and mammography inspections; reduced departmental expenditures by more than \$12,000 annually by performing equipment performance evaluations for dental x-ray machines; restructured and implemented the laser safety program and brought the institution into compliance with state regulations and ANSI standards; developed and implemented online laser safety training course for researchers and clinical staff working with high-powered lasers; increased departmental response to radiological emergencies by coordinating emergency response drills; ensured department readiness by supervising three FTE. Reported to Director, Radiation Safety.
- The University of Texas Health Science Center at San Antonio (UTHSCSA), San Antonio, TX  
*Environmental Health & Safety Specialist – Associate - August 2008- April 2009*  
Successfully implemented institution's radioactive waste management program through the collection & management of radioactive waste; increased department efficiency by assisting with the collection and management of chemical waste; improved emergency response to radiation or chemical spills by constructing, distributing and maintaining spill response carts at the various remote sites; maintained records related to waste collection and disposal in accordance with applicable state & federal guidelines; assisted in the creation of waste management training programs that was directly responsible for increasing compliance with institutional waste management policies. Reported to Safety Specialist – Practitioner.

#### **TEACHING EXPERIENCE:**

- University of Texas Medical Branch, Galveston TX  
*Adjunct Assistant Professor*  
*Served as guest lecturer for PHS 6402 (Fundamentals of Occupational Toxicology & Environmental Health; Fall 2020 & Fall 2021) and PHS 6302 (Environmental Health and Medicine; Spring 2024) presenting lectures on Industrial Hygiene and Employee Exposure Assessment. Served as guest lecturer for BBSC 6131 (General Laboratory Safety; 2013-2021) teaching didactic and hands-on lectures related to chemical safety, radiation safety, and spill response.*
- University of Houston Clear Lake, Clear Lake, TX  
*Guest Lecturer, October 2018*  
*Served as guest lecturer for upper level undergraduate course INDH 4315 – Industrial Radiological Health. Taught class lectures covering natural and man-made radiation, systems of radiation dose limits, and radiation detection & measurement.*

- Columbia Southern University, Orange Beach, AL  
*Full-Time Instructor, Occupational Safety & Health- June 2019-Present*  
*Adjunct Professor, Occupational Safety & Health- April 2017-May 2019*  
*Full-time instructor in the College of Safety and Emergency Services. Provides teaching and instruction to Columbia Southern University students in the Occupational Safety and Health discipline at the undergraduate and graduate levels. Course of instruction include Integrated Safety Management Systems, Industrial Hygiene, and Advanced Industrial Hygiene. Served as course writer for major revision of existing Master-level course Integrated Safety Management Systems and new Doctoral-level course Occupational Safety and Health Leadership.*
- Bowen EHS, LLC, Chapel Hill, NC  
*Senior Instructor- October 2013- Present*  
*Senior Instructor and Lead Instructor for online professional development courses. Reviews and updates course materials to ensure relevant instruction to students. Provides instruction to students in a virtual classroom setting. Lead Instructor for the CHMM Online Review Course. Teaches the CSP Online Review Course and guest lecturer for the CIH Online Review Course.*

#### **STUDENT SUPERVISION:**

- Adrian Caraves; University of Houston; Internship to support Bachelor of Science in Health; projects included respirator fit testing, conversion of paper records into electronic data retention system, eyewash & safety shower testing, and fall hazard risk identification (April 2020-August 2020)
- Derrick Haynes; University of Houston Clear Lake; Internship to support Bachelor of Science in Occupational Safety & Health; projects included industrial hygiene exposure monitoring SEG development, AED program review, SDS reviews, and occupational noise area monitoring (8/2019-12/2019)
- Maria Haynes; University of New England; Practicum to support Master of Public Health; Projects included analysis of research laboratory inspection results, analysis of employee safety culture survey data, and respirator fit testing (11/2018-04/2019)

#### **PROFESSIONAL TRAINING:**

- Aspire Journey for Leadership Training Course; April 2023; UTMB
- Cause Mapping Workshop; February 2023; March 2019 & February 2017; ThinkReliability
- Current Radioactive Materials Shipping Training for ICAO/DOT
- Current HAZMAT DOT Shipping (49 CFR) & RCRA Training
- Foundational Management Training Program; 12-month program concluding January 2017; UTMB
- Biological Safety Officer Course; April 2016; UTHSC-H & SWCOEH
- Business & Finance Leadership Academy; University of Houston Clear Lake & UTMB; Dec 2013- Nov 2014
- Environment of Care Basecamp; Joint Commission Resources; February 2013
- Environmental Health Training in Emergency Response; FEMA's Center for Domestic Preparedness; March 26-29, 2012
- Advanced Accident Investigation; TEEEX; February 2012

#### **TECHNICAL SKILLS:**

- Proficient in the use of a liquid scintillation counter, Geiger counters, sound level meters, noise dosimeters, anemometers, and other industrial hygiene equipment.
- Graduate coursework includes biostatistics, epidemiology, risk analysis, industrial hygiene, occupational health and safety, safety program management, accounting, economics, organizational behavior, and leadership.
- Undergraduate coursework includes Microsoft Office training, genetics, microbiology, organic chemistry, immunology, virology, general physiology, neuropsychopharmacology, and basic Medical Technology.

#### **ACCOLADES:**

- Recipient of TAMU-CC Graduate Scholarship; Spring 2018
- Recipient of G. Roger Florky Memorial Scholarship; 2013-2014
- Recipient of Baptist Health Foundation Scholarship; 2012-2013
- Recipient of American Industrial Hygiene Foundation Fred S. Venable Scholarship; 2012-2013
- STC-HPS Outstanding Volunteer Award; April 2011
- The University of Texas at San Antonio (UTSA) Part-time Honor Roll; Fall 2008
- The UTSA President's List for 4.0 GPA; Spring 2007, Spring 2006 & Fall 2005
- The UTSA Full-time Honor Roll; Fall 2006
- The UTSA Part-time Dean's list for 3.75 or above GPA; Summer 2006
- Recipient of Sam Madrid Jr. Endowed Scholarship; 2006-2007
- 9<sup>th</sup> Annual UTHSCSA Department of Medicine Research Day Winner – Resident/Student; May 23, 2006

## PROFESSIONAL & HONORARY ORGANIZATIONS:

- American Society of Healthcare Professionals; Member  
May 2013-Present
- American Society of Safety Professionals; Member  
May 2012 - Present
- National Health Physics Society (HPS)  
February 2010 – Present; Member
- State of Texas Chapter of the HPS  
April 2009 – Present: Member  
April 2018- April 2020: Secretary  
April 2014- April 2017: President  
April 2011 – April 2014: Board Member
- NFPA Laser Fire Protection Technical Committee  
October 2013-Present; Member
- American National Standards Institute Z136.1, Z136.3,  
Z136.5 & Z136.8 Standards Subcommittees  
December 2010 – Present; Member
- Beta Gamma Sigma International Business Honor  
Society  
March 2019-Present; Lifetime Member
- Phi Kappa Phi Honor Society  
March 2011 – Present; Lifetime Member
- Omicron Delta Kappa Leadership Honor Society  
16 February 2007 – Present; Member
- Alpha Chi National Honor Society  
8 August 2006 - Present; Member

## VOLUNTEER & SERVICE:

- Board Member & Chair, Texas Radiation Advisory Board (TRAB); appointed October 23, 2019 - April 16, 2025  
*Appointed representing hospital administrators by Texas Governor Greg Abbott to the TRAB; the TRAB serves as the state's advisors on all radiation-related issues, as well as reviews rules, guides and programs of the agencies that regulate radiation. Selected as Vice-Chair of the TRAB in September 2020. Appointed by Governor as Chair September 23, 2021.*
- Chair, University of Texas System Radiation Safety Advisory Group (RSAG); 2019-2022;  
*Elected as Vice-Chair (Chair-Elect) and served as Chair from 2020-2022 of RSAG (Spring 2019-2020), a group comprised of representatives of the Institutions and various offices of the University of Texas System that provides expert advice and recommendations to the UT System Environmental Health and Safety Advisory Committee on topics related to non-ionizing and ionizing radiation safety issues.*
- Webmaster; South Texas Chapter of the Health Physics Society; 2010 - 2016  
*Served as volunteer Webmaster, ensuring that information on the chapter presented online is accurate. Provided timely updates to web-based content to ensure communication to chapter membership. Continues to provide website support.*
- Scientific Peer Reviewer; Southwest Center for Occupational and Environmental Health  
*Served as a Scientific Peer Reviewer for Pilot Projects Research Training Program for the 2012/13 & 2014/15 funding years. Reviewed Pilot Project funding proposals to evaluate them for scientific merit based upon review criteria modeled after the National Institutes of Health enhanced peer review system.*

## PUBLICATIONS:

W.J. Pate, J.A. Betancourt, G.L. Delclos, D.I. Douphrate, D.G. Ruiz de Porras. Patient Safety and Employee Safety Culture Measurement and Agreement. *Professional Safety*. 65:2, 41-46 (February 2020).

W.J. Pate, S.A. Brocard. Lessons Learned from Implementation of a Web-Based Environmental Health & Safety Management Database in an Academic Medical Center. *ACS Chemical Health & Safety*. 27:1, 8-14 (January 27 2020).  
doi:10.1021/acs.chas.9b00001

W.J. Pate, J. Wilke. Development & Implementation of a Clinical Eyewash & Safety Shower Risk Assessment Process in an Academic Medical Center. *ACS Chemical Health & Safety*. 27:1, 15-19 (January 27 2020). doi:10.1021/acs.chas.9b00003

W Pate, M Charlton, C Wellington. Measurement and Analysis of 8-Hour Time-Weighted Average Sound Pressure Levels in a Vivarium Decontamination Facility. *Archives of Environmental and Occupational Health*. 68:3, 173-179 (March 9 2013).  
doi: 10.1080/19338244.2012.676104

SK Maffi, ML Rathinam, PP Cherian, W Pate, R Hamby-Mason, S Schenker, GI Henderson. Glutathione Content as a Potential Mediator of the Vulnerability of Cultured Fetal Cortical Neurons to Ethanol-Induced Apoptosis. *Journal of Neuroscience Research*. 86, 5 (December 3 2007). doi:10.1002/jnr.21562

## BOOK CHAPTERS

W Pate. Safety Professionals Handbook, 3<sup>rd</sup> Edition. ASSP. *Chapter 51: Physical Hazards*. 2023.

W Pate, J Wilke. APIC Text of Infection Control and Epidemiology, 5<sup>th</sup> Edition. *Chapter 113: Waste Management*. March 18, 2022.

W Pate. APIC Text of Infection Control and Epidemiology, 4<sup>th</sup> Edition. *Chapter 113: Waste Management*. June 6, 2014.

## **ABSTRACTS & PRESENTATIONS:**

W Pate. (September 26, 2023). *The Importance of Training and Education within a Comprehensive Slip, Trip, and Fall Prevention Program*. Presented at the National Fall Safety Institute 2023 Slip, Trip, and Fall Prevention Symposium.

W Pate, J Newton. (August 2022). *Managing a Respiratory Protection Program During a Global Pandemic*. Presented at the College and University Hazardous Materials Management Conference.

W Pate. (September 28, 2020). *Managing a Radiation Protection Program in the Age of COVID-19*. Presented at the State of Texas Chapter of the Health Physics Society.

W Pate. (February 6, 2020). *Ethics in Radiation Safety*. Presented at the Greater Houston Society of Healthcare Risk Management, Houston, TX.

W Pate. (October 21, 2019). *Safety Culture: How Do We Get There From Here*. Presented at University of Alabama at Birmingham, Birmingham, AL.

W Pate. (September 15, 2012). *Lessons Learned in Medical Laser Safety*. Presented at the State of Texas Chapter of the Health Physics Society, Austin, TX.

AE Jamali, W Pate, E Hess, GI Henderson, RA Clark, SK Maffi. (January 2009). *Mitochondrial superoxide anions as early initiators of alcohol-induced oxidative stress in neurons*.

W Pate, E Hess, SK Ahuja, S Schenker, SK Maffi. (January 2009) *Alcohol-induced oxidative Stress alters mitochondrial motility in fetal rat cortical neurons*.

SK Maffi, W Pate, E Hess, Y Kalkonde, SK Ahuja. (January 2007) *Bidirectional Coherent movement of mitochondria is altered by ethanol-induced oxidative stress in developing brain cells*. Presented at Frontiers in Mitochondrial Research Conference.

Dr. William Pate is Associate Vice President, EHS, of Environmental Health & Safety at the University of Texas Medical Branch (UTMB) and a Full-Time Instructor at Columbia Southern University in the College of Safety & Emergency Sciences. He has over 15 years of experience in health & safety with that time spent in the academic healthcare industry. Dr. Pate holds two master's degrees and a doctorate in public health with a focus on environmental & occupational health sciences. Dr. Pate is board certified in Health Physics (CHP), Industrial Hygiene (CIH), Safety Management (CSP), Hazardous Materials Management (CHMM), Healthcare Safety (CHSP), Laser Safety (CLSO), Public Health (CPH), Healthcare Facility Management (CHFM), and Security Management (CPP). He is also licensed as a medical physicist in Texas with a specialization in medical health physics. Prior to working at UTMB, Dr. Pate was Safety Manager for University Health System and a Safety Specialist at the University of Texas Health Science Center at San Antonio (UTHSCSA). Dr. Pate transitioned into the EHS field after spending several years as a hazardous material user working in research labs at UTHSCSA.

In 2021, Texas Governor Abbott appointed Dr. Pate to Chair the Texas Radiation Advisory Board, a board that reviews and evaluates radiation policies, programs, and proposed rules, as well as makes recommendations and provides technical advice related to sources of radiation. Dr. Pate is past-president and past-secretary of the State of Texas Chapter of the Health Physics Society. He is a professional member of the American Society for Healthcare Engineers, a member of the Health Physics Society and the NFPA Laser Fire Protection Technical Committee, and a plenary member of the American Academy of Health Physics. Additionally, he is past-Chair of the University of Texas System Radiation Safety Advisory Group and a member of the Laser Subcommittee of the American National Standards Institute.

In his free time, Dr. Pate enjoys spending time with his wife and two daughters at home as well as traveling. Dr. Pate also enjoys writing and has been published in *Professional Safety*, *ACS Chemical Health & Safety*, *Archives of Environmental and Occupational Health*, and has published textbook chapters on Waste Management (APIC) and Physical Hazards (ASSP).