

**Richard A. Burgess, II**  
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**Education:**

Texas Tech University 2014 - Current  
PhD Student in Systems and Engineering Management  
Industrial Engineering

Texas Tech University 2004 - 2006  
M.A. Philosophy  
Paper Defense: "An Aristotelian Approach to Global Poverty"

Utah State University 1998 - 2001  
B.S. Philosophy  
Graduated Cum Laude

**Teaching Experience:**

<i>Courses Taught</i>	<i>Courses as Teaching Assistant</i>
Beginning Philosophy	Beginning Philosophy
Introduction to Ethics	Biomedical Ethics
Engineering Ethics	

**Professional History:**

**Texas Tech University** 2004 - Current

*Murdough Center for Engineering Professionalism /National Institute for Engineering Ethics*

Position: Instructor (2015-Current) / Research Associate (2004-2015)

- Provide day to day oversight of professional development courses for licensed engineers
- Instructor of record for on-campus engineering ethics course for undergraduate students. Provide additional assistance on distance learning engineering ethics course
- Responsible for providing philosophical feedback on key engineering ethics education projects
- Additional experience as a guest lecturer and presentation evaluator
- Provide workshops for practicing engineers, educators, and others
- Responsible for developing ethics content for K-12 STEM Education programs
- Participate in/contribute to engineering conferences and contribute to engineering publications

Position: Acting Associate Director

- Critically involved in the development of undergraduate and professional level distance learning courses
- Responsible for helping to increase access to continuing education courses for engineers
- Facilitate key strategic initiatives both within Texas Tech University and beyond
- Develop and maintain relationships with various entities/institutions viz. engineering education and practice
- Associate member of the Executive Board of the National Institute for Engineering Ethics

*Department of Philosophy*

Position: Instructor/Graduate Part-Time Instructor

- Designed course syllabi, exams, and assignments based on course goals and level of student comprehension
- Effectively incorporated university wide teaching goals
- Served in a coaching/mentoring role to students via office hours and e-mail interactions

Position: Teaching Assistant

- Led weekly discussion sections focused on clarification of material presented in lecture
- Evaluated student performance based on required objectives for all papers and exams
- Responsible for holding weekly office hours intended to provide additional guidance to students

**Vitas Innovative Hospice**

2001-2004

Position: Long Term Care Representative (Chicago, IL)

- Facilitated increased utilization of hospice services through consultative and needs based dialogue
- Provided educational in-services to nurses, physicians, social workers, and other allied health professionals
- Utilized rapport building skills, follow through and thoughtfulness to attend to periodic service failures
- Gained clinical knowledge in various life limiting illnesses, wound care, and respiratory care

Position: Admissions Coordinator (Lombard, IL)

- Processed initial hospice referrals from physicians, facilities, or families
- Acted as first point of contact and comfort for newly referred patients and families
- Utilized critical thinking and problem solving skills to achieve positive outcome for patient/family, facility, referral sources, and fellow hospice staff
- Facilitated admission to hospice program by procuring physician authorization, scheduling appointments, and ordering durable medical equipment
- Also responsible for maintaining communication between different members of the hospice team
- Promoted to Long Term Care Representative within first twelve months of employment with Vitas

**Publications:**

*Peer Reviewed*

Burgess, Richard A. & Casas, A. Brian. "The Practical Importance of Philosophical Inquiry for Environmental Professionals: A Look at the Intrinsic/Instrumental Value Debate" *Environmental Practice*, September 2012.

*Non-peer Reviewed*

Burgess, Richard A. & Smith, Jimmy H. "Principles of Ethics for Engineers." Engineering Ethics: Concepts, Viewpoints, Cases and Codes (2<sup>nd</sup> ed.) Eds. Jimmy H. Smith, Patricia Harper, and Richard A. Burgess (Lubbock: National Institute for Engineering Ethics, 2008), pgs. 1-47.

Burgess, Richard A. Co-Editor with Jimmy H. Smith and Patricia Harper on Engineering Ethics: Concepts, Viewpoints, Cases and Codes (2<sup>nd</sup> ed.) (Lubbock: National Institute for Engineering Ethics, 2008).

**Conferences:**

“Comparing Definitions of Sustainable Development”, presented at APPE Annual Conference, 2/20/15

“Towards a Functional Definition of Sustainable Development in the Practice of Engineering” ASME IMECE Conference, 11/19/14

Ethics Panel Participation for the Society of American Foresters (SAF) International Conference, 10/10/14

“Introducing 6-12 Grade Teachers and Students to Computational Thinking” with material co-developed with Vinitha Subbaraj and Dean Fontenot, ASEE, 6/26/13

“From STEM to STE3M: Incorporating Economics and Ethics into STEM Education” with Travis Roach, Best Practices Conference 1/27/13

“Ethical Issues Awareness for Engineers in Practice” with A. Dean Fontenot, ASEE, 6/11/12

“Incorporating Ethics into STEM Education” T-STEM Best Practices Conference 1/12/12

**Workshops:**

“Engineering Ethics: Analysis and Discussion”, presented for Xcel Energy, 7/22/15

“Engineering Ethics: Analysis and Discussion”, presented for CB&I, 5/21/15

“Grappling with Ethical Challenges in Electrical and Electronics Engineering”, presented for IEEE Panhandle Chapter, 10/7/14

“Engineering Ethics in Practice”, presented for CB&I, 6/4/14

Environmental Ethics and Literacy Workshop for Engineering Undergraduates, hosted at Texas Tech’s Junction campus, 6/12/14 – 6/14/14

“Ethics in Engineering Practice: A Dialogue”, presented for IEEE Panhandle Chapter, 4/30/14

“Contemporary Case Studies and their Relevance to Engineering and Survey Practice”, presented at NCEES annual meeting, 8/21/13

“Cultivating a Deeper Understanding of the Engineering and Surveying Codes of Ethics”, presented at NCEES annual meeting, 8/21/13

“Multi-Generational Challenges in the Workplace: Addressing ‘Work Ethic’ and ‘Respect’ in Engineering Practice”, presented for CB&I, 4/25/13

Engineering Ethics Panel/Workshop for American Council of Engineering Companies, Texas Chapter, 12/4/12

**Awards:**

Recipient of the SBC Chancellor’s Fellowship, Texas Tech University: 2004-2005

## **Academic Service:**

April 2008 – May 2010: Member of the Ethics in the Curriculum Task Force, for Texas Tech's Quality Enhancement Plan related to its accreditation with SACS

## **Invited Presentations:**

4/22/14: Guest lecture on engineering ethics for materials science students  
11/14/13: Panel member for *Professional Ethics Live* for TSPE hosted at Texas Tech  
10/7/13: Engineering ethics discussion for chemical engineering students (one of several)  
10/3/12: Engineering ethics discussion for chemical engineering course (one of several)  
2/28/12: Engineering ethics discussion for professional communication course  
11/15/11: Follow-up presentation on ethical issues in petroleum engineering  
10/21/11: Guest lecture on ethical theory for graduate research ethics course  
10/19/11: Engineering ethics for graduate engineering leadership course  
10/4/11: Ethical issues in petroleum engineering, guest lecture for petroleum engineering students  
9/29/11: Engineering ethics discussion for professional communications course  
7/22 – 7/25/11: "The Ethics of a Manned Mission to Mars" Exxon Mobil Bernard Harris Summer Science Camp  
7/19/11: Introduction to engineering ethics for *Science: It's a Girl Thing*  
6/22/11: Incorporating ethics into PBL STEM education  
3/7 – 3/8/11: Panel member for both Author Meets the Critics session (critic) and session on the history and future of engineering ethics at the twentieth annual Association of Practical and Professional Ethics (APPE) meeting  
9/19/10: "The Gulf Oil Spill: Some Questions to Ask and Lessons to be Learned", Teaching Learning and Technology Center, Texas Tech  
7/27-7/28/10: Engineering ethics discussion for the Bernard Harris Summer Science Camp at Texas Tech University  
7/20/10: "Engineering: Obligations and Opportunities" for *Science: It's a Girl Thing*  
2/10/10: "Using Case Studies to Teach Ethics" presentation for faculty and staff as part of Texas Tech's Ethics Quality Enhancement Plan  
2/02/10: Engineering ethics discussion for professional communication course  
6/11/09: "Ethics in Engineering: A Discussion" for IDEAL Lego Robotics Summer Program  
3/07/09: "ETHICANA: An Anti-Corruption Education and Training (ACET) Initiative" with William Marcy at the 18th Annual Meeting of the Association for Practical and Professional Ethics  
11/17/08: "Engineers and Environmental Obligation", Graduate Engineering Leadership Seminar  
11/10/08: Science and Technology Panel for Texas Tech University Honor's College, Panel Member  
10/15/08: "Case Studies and Moral Principles" discussion for Industrial Engineering Senior Design Seminar  
10/7/08: Engineering Ethics discussion for freshman seminar in Chemical Engineer  
03/31/07: "Making a Case for Mandatory HPV Vaccinations", panel member at Cancer Prevention Conference (Lubbock, TX)