

Eli Kofi Aba

PhD, CQIA, CSSGB, CQE, CSTM, CSTP

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Professional Profile

Innovative and smart leader that encourages fresh ideas. Fosters communication, welcomes feedback, and inspires teams to excel. Creative problem solver that brings quick resolution to challenging situations.

Areas of expertise: Data management, project management, operations management, supply chain, quality systems, quality control/assurance, six sigma, lean six sigma, statistical process control, applied statistics, quality, reliability, research, statistics, statistical software packages (Excel, SPSS, Minitab, Stata), technology management, quality engineering, industrial management, quality management, industrial design and innovation, production planning and control, simulation, lean systems, and manufacturing processes and systems.

Education

Doctor of Philosophy in Technology Management (Specialty: Quality Systems)

Indiana State University (ISU), August 2010 - August 2013

Master of Science in Industrial Technology (Specialty: Packaging Technology)

ISU, August 2008 - August 2010

Master of Philosophy in Food Science Coursework

University of Ghana (UG), August 2006 - I finished Part I (coursework), was about to start my thesis when I left for ISU.

Bachelor of Science in Biochemistry

UG, August 2000 - May 2004

Work Experience

Academic Work Experience:

UW-Stout

Associate Professor, Fall 2023 - present

Assistant Professor, Fall 2019 – Summer 2023

Dept. of Operations and Management, University of Wisconsin-Stout, Menomonie, Wisconsin

- INMGT 200-005 (Production Operations and Management - face-to-face course)
- INMGT 201 (Quantitative Methods in Production Operations Management - face-to-face course and web-based course)
- INMGT 365/565-001 (Project Management - face-to-face course)
- INMGT 705-900C (Enterprise Planning - web-based course)
- INMGT 422/622-001 (Quality Engineering - face-to-face course)
- INMGT 440/640-900C (Lean Enterprise - web-based course)
- INMGT 410/610-900C (Six Sigma - web-based course)
- INMGT 736-930C (MS Operations and Supply Management Research Capstone - face-to-face course and web-based course)
- INMGT 700-900C (Organizational Research Methods - face-to-face course and web-based course)

Program Director, MS Operations and Supply Management, Summer 2022 – present

Program Director, MS Construction Management, Summer 2022 - present

Project Management Advisor, Spring 2021 – Spring 2024

PSU and ISU

Assistant Professor, August 2015 – August 2019

Dept. of Technology and Workforce Learning (TWL), Pittsburg State University (PSU), Pittsburg, Kansas

- ETECH 804-01 (Quality Management and Control - face-to-face course)
- ETECH 804-99 (Quality Management and Control - web-based course)
- ETECH 899-01 (Quantitative Decision Making in Industry - face-to-face course)
- ETECH 899-99 (Quantitative Decision Making in Industry - web-based course)
- GRT 895-93 (MST Graduate Review and Assessment)
- GRT 897-99 (MST Graduate Assessment Project)
- TWL 795-03 (Tp: Internship in Technology)

Coordinator of MST Program

MST Internship Coordinator

Graduate Student Advisor

Lecturer, January 2015 - May 2015

Dept. of Applied Engineering and Technology Management (AETM), ISU, Terre Haute, Indiana

- TMGT 374- 001 (Lean Manufacturing Systems - face-to-face course)
- TMGT 374-301 (Lean Manufacturing Systems - web-based course)

Lecturer, August 2013 - December 2014

Dept. of Applied Engineering and Technology Management (AETM), ISU, Terre Haute, Indiana

- PKG 381-303 (Environmental Issues in Packaging - web-based course)
- TMGT 421-001 (R&D in Technology - face-to-face course)
- TMGT 421-301 (R&D in Technology - web-based course)
- Co-instructor: MFG 370-001 (Fundamental Manufacturing Processes - lecture and lab-based face-to-face course); MET 299-401 (CAD Fundamentals - lecture and lab-based face-to-face course); MFG 671-301 [Systems in Manufacturing (included Supply Chain Management) - web-based course]; and MET 329-001 (Fluid Power Technology - lecture and lab-based face-to-face course)

Statistical Consultant, August 2013 - Summer 2015

College of Graduate and Professional Studies (CGPS), ISU, Terre Haute, Indiana

- Guided graduate students through their research procedures and the best statistical techniques to employ
- Guided graduate students analyze their raw data

Graduate Lecturer (as PhD Fellow), August 2010 - August 2013

Dept. of AETM, ISU, Terre Haute, Indiana

- TMGT 421-001 and TMGT 421-301
- Teaching Assistant for TMGT 607-001 (Statistics for Experimentation and Research in Technology)
- Assisted Prof. A. Mehran Shahhosseini teach MET 103 (Introduction to Engineering and Technology)
- Assisted Prof. Stephen McCaskey teach 8 courses including TMGT 497 (Problem Solving: A Team Approach), TMGT 495 (Abstracting, Inferencing, and Technological Thinking), and CTE 479 (Problems in Career and Technical Education)
- Worked with Prof. Michael Hayden on Indiana Commission for Higher Education proposals and TMGT 361 (Quality Systems and Tools)
- Assisted Prof Marion Schafer teach three online sections of PKG 381

Graduate Assistant, May 2011 - August 2011

Dept. of AETM, Terre Haute, Indiana

- Built TMGT 607-301, TMGT 461-301, and TMGT 703-301 Blackboard sites for Prof. Michael Hayden and also TMGT 421-301

Web Designer, November 2012 - August 2013

Grounds Maintenance, ISU, Terre Haute, Indiana

- Re-designed and updated Websites at the Office of Grounds Maintenance, ISU

September 2010 - December 2010

Office of Environmental Safety (OES), ISU, Terre Haute, Indiana

- Designed Web site for OES

May 2010 - August 2010

Grounds Maintenance, ISU, Terre Haute, Indiana

- Designed Websites at the Office of Grounds Maintenance, ISU
- Student Garden Coordinator, ISU Community Garden

Graduate Assistant, May 2009 - August 2009

ISU Recycle Center, Facilities Management, Terre Haute, Indiana

- Designed Websites, business cards, posters, imprints, and other computer work

Graduate Assistant, August 2008 - May 2010

CGPS, ISU, Terre Haute, Indiana

- Designed Websites at the Office of Communications and Marketing, ISU

Ghana

High School Teacher, January 2005 - September 2005

Accra, Ghana

- Science subjects: Physics, Chemistry, Biology, Elective Mathematics, Core Mathematics and Integrated Science.

Science Teacher, September 1999 - July 2000

Sonrise Christian International School, Ho, Ghana

- Junior Secondary School Science

Industry Work Experience

Quality Assurance Officer, September 2005 - August 2008

Sheagman Enterprise Ltd, Accra, Ghana

- Employed statistical process control to monitor and stabilize processes
- Assessed and inspected reagents and consumables to conform to company's set standards

Quality Assurance Supervisor, One month Job - November - December 2005

Myroc Food Processing Company Ltd (Tuna Processing Company), Tema, Ghana

- Employed statistical process control to monitor and stabilize processes
- Routine inspection work as follows: conditions of fresh fish to be processed; salt and oil content of canned fish and crowning of the fish cans

Biochemist (Laboratory Scientist) in the pathology laboratories - National Service Person, October 2004 - October 2005

37 Military Hospital, Accra, Ghana

- Conducted laboratory tests in the following laboratories: Biochemistry (Chemical Pathology), Hematology, Serology, Microbiology, Histopathology, Parasitology, and Blood Bank

Biochemist in the laboratory, 3-month internship - June - August 2003

The Coca Cola Bottling Company of Ghana, Accra, Ghana

- Employed statistical process control to monitor and stabilize processes
- Quality control, water and waste treatment plants work
- Routine laboratory work as follows: checking the required volume of carbon (IV) oxide in the company's products; concentration of brix, and sodium hydroxide in the washer

Certifications and Certificates

Certified Six Sigma Black Belt (CSSBB) - American Society for Quality (ASQ), January 2025.

Certification number: 26769

Quality Matters Certified Peer Reviewer – December 2017

Certified Quality Engineer (CQE) - ASQ, June 2012. Certification number: 58918

Certified Senior Technology Manager (CSTM) - Association of Technology, Management, and Applied Engineering (ATMAE), April 2012. Certification number: 2975

Certified Senior Technology Professional (CSTP) - ATMAE, April 2012. Certification number: 2975

Certified Quality Improvement Associate (CQIA) - ASQ, June 2011. Certification number: 8125

Certified Six Sigma Green Belt (CSSGB) - ASQ, December 2011. Certification number: 6514

Certificate in the pedagogy of Foundational Courses - Attended seven foundational studies workshops, ISU, December 2011

Certificate in Facilitation Skills - ISU, November 2010

National Service Certificate - Ghana Armed Forces, Ministry of Defense, 2004/2005. Certificate number: NS/DMP/05/091

Key I.T. Skills

Microsoft Project, Microsoft Visio, Microsoft Office, Excel Solver, Adobe Creative Suite, SharePoint Designer, SPSS, Minitab, Emedia card designer, Arena (simulation software), SmartDraw, CorelDRAW, VUE (Visual Understanding Environment software), Elluminate, TurningPoint, google docs, Second Life, Snagit, TechSmith Relay, LINGO, TreePlan, FrontlineSolvers, AMOS, Microsoft OneNote, ProE, CAD, SurveyMonkey, and Qualtrics.

I am great at these learning managing systems:

- Canvas
- Blackboard
- Moodle

Awards and Honors

- Exceptional Faculty Appraisal/Rating, PSU - 2018
- Paper ‘Impact of ISO 9001 certification on firms financial operating performance’ published in *Int. J. of Quality & Reliability Mgmt*, 33(1), 78-89 (2016) was selected as a **Highly Commended paper** by the Journal in the 2017 Emerald Literati Network Awards for Excellence
- Outstanding Graduate Assistant, ISU, 2012
- Certificate of appreciation, Indiana’s Bicentennial Green Legacy, August 2012
- PhD Fellow, PhD in Technology Management, ISU, August 2010 - August 2013
- Graduate Assistant, College of Graduate and Professional Studies (CGPS), ISU, August 2008 - May 2010
- Scholar - Mawuli School (Senior High School), 1995 - 1997
- Head of State Award Scheme Winner- Junior Secondary School (Junior High School), 1993 – 1994

Grants

- NSF grant - I-Corps L - Received Summer 2015; I left ISU and not part of this project.
- ISU Travel Grant - Received Fall 2013
- Recipient of Student Research Fund Award, ISU - Received Fall 2012
- West African Research Association Travel Grant - Submitted Spring 2012 but did not receive
- ISU Travel Grant - Received Fall 2012
- Recipient of Student Research Fund Award, ISU - Received Fall 2009

Service

UW-Stout

- Advisor for the Project Management minor, UW-Stout – Spring 2021 – present
- Program director for the MS Operations and Supply Management, Summer 2022 – present
- Program director for the MS Construction Management, Summer 2022 – present
- ATMAE Conference Abstracts Reviewer - April 2016 - present

ISU

- Recruited prospective applicants for ISU’s PhD in Technology Management program - 2014 conference of the Association of Technology, Management, and Applied Engineering, St. Louis, MO
- Contributor to the Consortium PhD in Technology Management Newsletter - Fall 2010 - Summer 2013
- Co-Editor, PhD in Technology Management Newsletter, ISU, 2012 - 2013
- Guest speaker on African post-colonial issues – HIST 102 (World civilization 1500 to present) - Fall 2011
- Organized a lecture on engineering courses and programs to MET 103 (Introduction to Engineering and Technology) students - Fall 2010
- Organized private calculus class for some senior MET students - Spring 2010

Involved with these associations:

- Member, Institute of Packaging Professionals, 2008 - 2010
- Member, International Affairs Center Student Advisory Committee, 2008 - 2010

- Member, Student Alumni Association, ISU, 2008 - 2010
- Member, Web Editor Committee, ISU, 2008 - 2010
- Member, Service on the Web Committee, ISU, 2009 - 2010
- Secretary-General, African Student Union (ASU), 2008 - 2009
- Biochemistry Students Association, UG, Legon, 2002 - 2004
- Chemistry Students Association, UG, Legon, 2000 - 2004
- Science Students Association, UG, Legon, 2000 - 2004
- Brilliant Mathematics and Science Quiz Group, Mawuli School, 1996 - 1997

Thesis/Project Committees

UW-Stout

- Plans A and B Advisor, UW-Stout, Spring 2021 - present

Plan B Students Advised

- Topic - Implementation of MAAR methodology to identify root cause – Fall 2022
- Topic - Impact of the implementation of SAP Warehouse Management ERP system and RF technology on competitive advantage – Fall 2023

PSU and ISU

Served on the following project committee:

- Serve as the Project Committee Chair for eight MST students, PSU
- Served on the Lynn Riggs' thesis Committee, PSU - Spring 2017
- Joseph Cantrell's project committee - worked towards M.S. in Technology Management with a concentration in manufacturing, ISU, IN

Community Service

PSU and ISU

- Volunteer, Southeast Kansas Recycling, Pittsburg, KS - Fall 2015 – August 2019
- Member, Kiwanis International, Pittsburg Branch - Fall 2017 – August 2019
- Chairperson, Holypalooza Community Garden Project - Volunteers from three churches - Central Presbyterian, St Stephen's Episcopal, and Centenary Methodist - worked on plots at ISU Community Garden and also picked produce and donated it to charity - Terre Haute, September 20, 2014
- Volunteer, Pittsburg Community Garden - Spring 2016 - Fall 2017
- Volunteered as the coordinator of the ISU Community Garden (about 100 gardeners) - Fall 2011 - Summer 2015
- Friends of the Arboretum, Inc., Terre Haute - volunteered and designed a Web site for Friends of the Arboretum, Terre Haute - <http://www.hollyfota.org/> - May 2011 - May 2012

Committees

UW-Stout

- Member, Personnel Committee, Dept. of Operations and Management, UW-Stout – Fall 2022 – present
- Committee Member, Search Committee, Assistant Professor, TRHRD, UW-Stout – Fall 2022 – Spring 2023
- Alternate Member, Graduate Education Committee, UW-Stout – Spring 2022 – present
- CSTEMM Member, Positive Action, Ethics and Competition Review Committee, UW-Stout – Spring 2020 – present
- Alternate Member, Stout Core Committee, UW-Stout – Spring 2023 – present
- CSTEMM Member, Faculty Senate Equity, Diversity, and Inclusion Committee, UW-Stout – Spring 2020 – Spring 2022
- Process Improvement Leadership Group Member, UW-Stout – Spring 2020 – Summer 2022
- Faculty-At Large rep, Positive Action, Ethics and Competition Review Committee, UW-Stout – Spring 2020 – present
- Member, UW-Stout Graduate Faculty
- Volunteer, Menomonie Community Garden – Fall 2020 – present

- Member, ATMAE's Conference Planning Committee Spring 2019 – present

PSU

- Chair, COT Graduate Curriculum Committee, PSU – Fall 2018 – August 2019
- Member, Library Services Committee, PSU – Fall 2018 – August 2019
- Member, TWL Protection of Human Subjects Committee, PSU - Fall 2017 – August 2019
- Member, Graduate Council, PSU - Fall 2017 – August 2019
- Member, Executive Graduate Council, PSU - Fall 2018 – August 2019
- Member and Recorder, Online and Distance Learning Committee, PSU - Fall 2017 – August 2019
- Committee Member, MST Search Committee, PSU - Summer, 2016
- Committee Member, Department of Automotive Chair Search Committee, PSU - Spring, 2017

Reviewer

- Reviewer, Industrial Engineering and Operations Management - Spring 2022 - present
- Reviewer, Journal of Quality in Maintenance Engineering - Summer 2017 - present
- Reviewer, Journal of Quality Management Systems, Applied Engineering, and Technology Management - Spring 2017 - present
- ATMAE Conference Reviewer - April 2016 - present
- Reviewer, International Journal of Quality and Reliability Management - Fall 2015 – present
- Reviewer, Int. J. of Six Sigma and Competitive Advantage - Fall 2015 - present
- Reviewer, Global Education Review (ISSN 2220-1599) - Fall 2013 - present

Professional

- ASQ Section Chair, ASQ MOKA Section 1306 - Fall 2017 – August 2019
- Voice of Customer Chair, ASQ MOKA Section 1306 - Spring 2016 – Fall 2017
- Subject Matter Expert, ASQ - May 2014 – present
- ASQ SSGB Cut Score Committee member – July 15 – 31, 2022

Peer-Reviewed Publications and Presentations

Publications

- **Aba, E. K.**, & Goris, T. K. (in progress). Quality Matters approach to course design quality
- **Aba, E. K.** (in progress). Motivation of students for course success
- **Aba, E. K.**, & Guraja, P. K. (in progress). Lean implementation at public universities in Kansas
- **Aba, E. K.** (in progress). Lean system in government.
- **Aba, E. K.** (in progress). Formative feedback for continuous instructional improvement.
- **Aba, E. K.**, & Paidipalli, V. K. (2018). Awareness of cell phone addiction among international students. *Journal of Quality Management Systems, Applied Engineering, and Technology Management*, 2018(3), 1-16.
- Goris, T. V., **Aba, E. K.**, Koppolu, J., Fligor, M. (2017). *Potential health impact of radiofrequency radiation on humans: Proceedings of the Association of Technology, Management, and Applied Engineering Conference*. Cincinnati, OH: ATMAE.
- **Aba, E. K.**, Badar, M. A., & Hayden, M. A. (2016). Impact of ISO 9001 certification on firms' financial operating performance. *International Journal of Quality & Reliability Management*, 33(1), 78-89.
- **Aba, E. K.**, & Badar, M. A. (2013). A review of the impact of ISO 9000 and ISO 14000 certifications. *Journal of Technology Studies*, 39(1), 42-50.
- Ferreira, E. J., & **Aba, E. K.** (2013). Long-run operating performance of quality certified firms. *Journal of International Finance Studies*, 13(3), 197-202.
- **Aba, E. K.**, & Hayden, M. A. (2013, April). Understanding variation and its relationship to quality. *Quality Progress*, 46 (4), 38-43.
- Okine, L. K., Akuamoah, R. K., Gbewonyo, W. S. K., **Aba, E. K.**, & Aidoo, E. (2004). Antimicrobial activity and chemical constituent profile of neem seed oil on storage: Effects of Vitamin E and Lecithin. *J. Gh. Sc. Ass.*6(2), 15-29.

Proceedings/Presentations

UW-Stout Faculty Member

- **Aba, E. K., & Dzissah, J. S.** (2024, April). Redesigning model for graduate programs. [Poster presentation]. Poster presented at the OPID/2024 Spring Conference for Wisconsin Educators, Madison, WI.
- **Aba, E. K.** (2023, October). Course design lessons learned from COVID-19 pandemic. [PowerPoint slides]. Paper presented at the annual conference of the Association of Technology, Management, and Applied Engineering, Atlanta, GA.
- **Aba, E. K.** (2023, October). Continuous improvement model for a graduate program. [PowerPoint slides]. Paper presented at the annual conference of the Association of Technology, Management, and Applied Engineering, Atlanta, GA.
- **Aba, E. K.** (2022, January). Customer service approach to the continuous improvement of a course (CSACIC). [PowerPoint slides]. Paper presented at the 2022 January Professional Development, UW-Stout, Menomonie, WI.
- **Aba, E. K.** (2021, November). Applying continuous improvement in academia. [PowerPoint slides]. Paper presented at the 6th North American Conference on Industrial Engineering and Operations Management (IEOM), virtual conference.
- **Aba, E. K.** (2021, November). Impact of Canvas Total Activity on Learners' Performance. [PowerPoint slides]. Paper presented at the 6th North American Conference on Industrial Engineering and Operations Management (IEOM), virtual conference.
- **Guraja, P. K., & Aba, E. K.** (2020, November). Use of quality tools in Millennium Database. [PowerPoint slides]. Paper presented at the annual conference of the Association of Technology, Management, and Applied Engineering, virtual conference.
- **Aba, E. K., & Al-Odeh, M.** (2019, November). *Quality matters approach to course design: QM reviewers' perspective* [PowerPoint slides]. Paper presented at the annual conference of the Association of Technology, Management, and Applied Engineering, Charlotte, NC.

PSU and ISU Faculty Member

- **Aba, E. K., & Goris, T. V.** (2019, August). *Academic and cultural challenges of new international graduate students* [PowerPoint slides - updated]. Paper presented at the 9th annual professional development day, PSU, Pittsburg, KS.
- **Aba, E. K.** (2019, August). *Employment of Kahoot! for student interaction* [PowerPoint slides]. Paper presented at the 9th annual professional development day, PSU, Pittsburg, KS.
- **Aba, E. K., & Guraja, P. K.** (2018, November). *Lean implementation at Public Universities in Kansas* [PowerPoint slides]. Paper presented at the annual conference of the Association of Technology, Management, and Applied Engineering, Kansas City, MO.
- **Aba, E. K., & Mhatre, K.** (2018, November). *The role of Six Sigma in energy auditing* [PowerPoint slides]. Paper presented at the annual conference of the Association of Technology, Management, and Applied Engineering, Kansas City, MO.
- **Aba, E. K., & Goris, T. V.** (2018, October). *Academic and cultural challenges of new international graduate students* [PowerPoint slides]. Paper presented at the 2018 Michael Tilford Conference at Fort Hays State University, KS.
- **Aba, E. K.** (2018, August). *Motivation of students for course success* [PowerPoint slides]. Paper presented at the 8th annual professional development day, PSU, Pittsburg, KS.
- **Aba, E. K., & Goris, T. V.** (2018, August). *Quality matters approach to course design quality* [PowerPoint slides]. Paper presented at the 8th annual professional development day, PSU, Pittsburg, KS.
- **Aba, E. K., & Sunkarasetti, Y. T.** (2017, November). *Data analysis using statistical process control: A case for a cold rolled coil* [PowerPoint slides]. Paper to be presented at the annual conference of the Association of Technology, Management, and Applied Engineering, Cincinnati, OH.
- **Aba, E. K., & Guraja, P. K.** (2017, November). *Application of statistical process control to a university website* [PowerPoint slides]. Paper to be presented at the annual conference of the Association of Technology, Management, and Applied Engineering, Cincinnati, OH.
- **Goris, T., & Aba, E. K.** (2017, November). *Potential health impact of radiofrequency radiation on humans* [PowerPoint slides]. Paper to be presented at the annual conference of the Association of

- Technology, Management, and Applied Engineering, Cincinnati, OH.
- **Aba, E. K.** (2017, October). *Formative feedback for student retention* [PowerPoint slides]. Paper presented at the 2017 Michael Tilford Conference at Fort Hays State University, KS.
 - **Aba, E. K., & John, I.** (2017, August). *Formative feedback for continuous instructional improvement* [PowerPoint slides]. Paper presented at the annual professional development day, PSU, Pittsburg, KS.
 - **Aba, E. K., Bracker, K., Casey, B., & Johnson, K.** (2017, August). *Respondus LockDown Browser and Monitor* [Panel discussion]. Discussion presented at the annual professional development day, PSU, Pittsburg, KS.
 - **Aba, E. K., & Nagandla, S. B. V.** (2017, February). *Quality filter mapping in foundry* [PowerPoint slides]. Paper presented at the monthly meeting of the MOKA Section of the American Society for Quality, PSU, Pittsburg, KS.
 - **Aba, E. K.** (2016, August). *Use of Respondus LockDown Browser and Respondus Monitor* [PowerPoint slides]. Paper presented at the annual professional development day, PSU, Pittsburg, KS.
 - **Aba, E. K.** (2016, November). *Impact of strategies that prevent cheating in the classroom* [PowerPoint slides]. Paper presented at the annual conference of the Association of Technology, Management, and Applied Engineering, Orlando, FL.
 - **Aba, E. K., & Badar, M. A.** (2015, November). *Impact of instructional strategies in the classroom* [PowerPoint slides]. Paper presented at the annual conference of the Association of Technology, Management, and Applied Engineering, Pittsburgh, PA.
 - **Aba, E. K., & Badar, M. A.** (2015, November). *Use of kanban at an international airport* [PowerPoint slides]. Paper presented at the annual conference of the Association of Technology, Management, and Applied Engineering, Pittsburgh, PA.
 - **Aba, E. K., & Badar, M. A.** (2014, November). *Financial impact of the Integration of ISO 9001 and ISO 14001 certifications* [PowerPoint slides]. Paper presented at the annual conference of the Association of Technology, Management, and Applied Engineering, St. Louis, MO.
 - **Aba, E. K., & Badar, M. A.** (2013, November). *Impact of ISO 9001 certification on United States firms' financial performance* [PowerPoint slides]. Paper presented at the annual conference of the Association of Technology, Management, and Applied Engineering, New Orleans, LA.
 - **Ferreira, E. J., & Aba, E. K.** (2013, October). *Long-run operating performance of quality certified firms* [PowerPoint slides]. Paper presented at the annual conference of the International Academy of Business and Economics, Las Vegas, NV.
 - **Aba, E. K., & Hayden, M. A.** (2013, October). *Financial operating performance of ISO 9001 certified firms* [PowerPoint slides]. Paper presented at the joint monthly meeting of the American Society for Quality, American Society for Metals International, and Society of Manufacturing Engineers, Terre Haute, IN.
 - **Aba, E. K.** (2013, April). *Impact of ISO 9001 certification on United States firms' operating performance*. Poster session presented at the annual spring research event of the Center for Student Research and Creativity, Terre Haute, IN.
 - **Aba, E. K., & Schafer, M. D.** (2012, November). *An investigation of the awareness of recycling services at student family housing units* [PowerPoint slides]. Paper presented at the annual conference of the Association of Technology, Management, and Applied Engineering, Nashville, TN.
 - **Aba, E. K.** (2009, April). *An investigation of the awareness of recycling services at student family housing units*. Poster session presented at the annual spring research event of the Center for Student Research and Creativity, Terre Haute, IN.
 - **Aba, E. K., Ayernor, G. S., & Saalia, F.** (2007, November). *Research concept paper on evaluations of pesticide residues in Ghanaian exportable fruit and vegetables*. Paper presented at the University of Ghana, Legon, Accra, GH.

Student Presentations

- Prepared two MET students to make presentations at 2017 PSU Research Colloquium
- Prepared two MST students to make presentations at 2017 PSU Research Colloquium

Professional Workshops/Webinars/Seminars Attended

Selected Ones

- Attended monthly Canvas Users Group
- Attended Getting Started with VidGrid
- Attended course design strategies to enhance critical thinking skills
- Attended simulation and risk analysis applications in Excel using Risk Solver platform
- Attended writing better multiple-choice questions
- Attended balancing academic advising with other faculty responsibilities
- Attended introduction to TechSmith Relay
- Attended academic advising panel
- Attended using canvas to enhance academic advising
- Attended instructor training for LockDown Browser and Respondus Monitor: Prevent cheating during online exams
- Attended Respondus 4.0 Instructor training: Create & manage exam content
- Attended using the Respondus test bank network to quickly create online exams
- Attended Gorilla Advising Academy: Master Advisor Training
- Attended accessibility and design best practices
- Attended Turnitin Training
- Attended lot size optimization for better performance
- Attended included, involved, inspired: Strategies for collaboration and engagement
- Attended building the family circle
- Attended 2026: The Decade Ahead
- Attended designing effective rubrics: How to align learning outcomes, instructional activities & course assignments
- Attended the Journey to Digital: Nest Stop, Mobile Apps
- Attended lecture Light Shine: High-Wattage (and Low-Stress) Ideas to Engage Any Student
- Attended prepared students: The secret's in the assignment strategy
- Attended advising needs of first-generation student: Taking a closer look
- Attended how to advise students online: Protocols and pitfalls of email advising
- Attended using XLMiner platform to gain insights from your data in Excel
- Attended applications of optimization in excel using frontline systems' advanced products
- Attended online teaching toolkit: Evaluate and improve your teaching
- Attended improve participation in college classrooms: How to create a discussion strategy that will increase student learning and engagement
- Attended introduction to Microsoft Excel
- Attended Hanover proposal writing
- Attended practical tools & techniques to encourage student collaboration
- Attended teachable moments: Strategies for responding to student bias
- Attended collaboration island... building connections between students
- Attended Classroom Assessment Revisited: How to Measure What & How Well Students Learn
- Attended nurturing students to success; the integration of academic advising and motivational psychology
- Attended advisee semester follow-up
- Attended how to coach past resistance to accelerate the rate of change
- Attended enhance collaboration among your staff!
- Attended design and analysis of experiments in MINITAB
- Attended international students' use of social network sites for college choice activities and decision making
- Attended the real work of management
- Attended welcome to applying the QM Rubric
- Attended building advisor competency - facing fear and creating our best professional selves
- Attended the impact of academic advising on dual and concurrent
- Attended improving healthcare services and patient outcomes by leveraging the power of data analysis
- Attended SIPOC – The Unsung Hero of Lean Six Sigma

- Attended implicit biases: Why we have them and how they impact STEM
- Attended leadership for diversity and inclusion
- Attended ASQ SSGB cut score workshop recruitment
- Attended DOE in practice webinar today!

Courses Developed/Revised

UW-Stout

Contributed to the revision of these courses at UW-Stout:

- INMGT 705 (Enterprise Resource Planning)
- INMGT 200 (Production and Operations Management)
- INMGT 305/505 (Resource Planning and Materials Management)
- INMGT 405 (Resource Planning and Materials Management)
- INMGT 440/640 (Lean Enterprise)

PSU

Developed these courses at PSU:

- GRT 895 - 93 (MST Graduate Review and Assessment)
- GRT 897 - 99 (MST Graduate Assessment Project)
- TWL 795-03 (Tp: Internship in Technology)

Revised these courses at PSU:

- ETECH 804 - 01 (Quality Management and Control - face-to-face course)
- ETECH 804 - 99 (Quality Management and Control - web-based course)
- ETECH 899 - 01 (Quantitative Decision Making in Industry - face-to-face course)
- ETECH 899 - 99 (Quantitative Decision Making in Industry - web-based course)

Research in Progress

- Lean, Six Sigma, and Theory of Constraints
- Financial impact of the integration of ISO 9001 and ISO 14001 on certified firms in United States
- Designing analysis method to address the different types of variation in quality
- Distance education

Extracurricular Activities

- Convener, African Student Union, Indiana State University, Fall 2008

Conferences and Events

- Attended the annual Michael Tilford Conference - Fall 2015 – August 2019
- Attends and presents at the annual ATMAE Conference - Fall 2012 – present
- Attended 2017 Global Manufacturing Summit, PSU - Spring 2017
- Attended Ivy Tech Corporate College & Wabash Valley ASQ's Strategic Innovation & Improvement Event, Terre Haute, IN - Fall 2012
- Attended PackExpo2008, Chicago, IL - Fall 2008

Professional Affiliations

- Professional member, Association of Technology, Management, and Applied Engineering (ATMAE), 2012 - present
- Professional member, American Society for Quality (ASQ), 2011 - present

Interests/Hobbies

Reading, soccer, ping pong, free thinking, working in the laboratory, teaching, carrying out research, learning new things, listening to/reading profiles of highly accomplished personalities

References are available on request