

1. NAME: YOGENDRA M. PANTA

2. EDUCATION

- i. Ph.D. Mechanical Engineering-University of Nevada Las Vegas (UNLV) 2008
- ii. M.S. Mechanical Engineering - Youngstown State University (YSU) 2004

3. ACADEMIC EXPERIENCE

- i. West Virginia University Tech - Associate Professor, Mechanical Engineering 2019-Date, FT
- ii. West Virginia University Tech - Assistant Professor, Mechanical Engineering 2013-2019, FT
- iii. YSU, Assistant Professor - Mechanical Engineering 2008-2013, FT
- iv. UNLV, Nevada NSF EPSCoR Graduate Research Fellow 2006-2008, PT
- v. UNLV, Graduate Teaching Assistant 2005-2006, PT
- vi. YSU, Graduate Assistant - Mechanical Engineering 2002-2004, PT

4. NON-ACADEMIC EXPERIENCE

Faculty Fellow (Summers of 2018 and 2019) at NASA Glenn Research Center, Cleveland, Ohio

5. CERTIFICATION or PROFESSIONAL REGISTRATION

Engineer Intern, The Nevada Board of Engineers – Nevada Since 2007

6. CURRENT MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Society of Mechanical Engineers (ASME), American Society of Engineering Education (ASEE), Mechanical Engineering Honor Society (Pi Tau Sigma) & National Fluid Power Association (NFPA)

7. HONORS & AWARDS (past five years)

- i. Fulbright U.S. Scholar, The J. William Fulbright Foreign Scholarship Board, The U.S. Department of State’s Bureau of Educational and Cultural Affairs, 2020-2021
- ii. Sabbatical Leave Approval, West Virginia University Board of Governors on behalf of E. Gordon Gee, President WVU by Maryanne Reed, WVU Provost, 2020-2021
- iii. Faculty Associate Leader, WVU Tech’s TLC Affiliate, WVU Beckley, 2018-date
- iv. Faculty Fellow, NASA Glenn Research Center, Summer 2018, Summer 2019
- v. Professor of the Year, WVU Tech’s Mechanical Engineering Department-Pi Tau Sigma Chapter, 2018
- vi. Faculty Associate, WVU TLC/ACUE Cohort at WVU Tech, 2016-2018
- vii. KERN/University of New Haven’s Entrepreneurial Mindset in Engineering Fellow, 2017
- viii. Engineering United States Patent, Ganesh V. Kudav and Yogendra M. Panta, *Solar Panel Wind Deflector*, US 9,003,739 B2, United States Patent and Trademark Office, 2015

8. SERVICE ACTIVITIES

- i. ABET Coordination Assistant to the Chair of Mechanical Engineering Department.
- ii. Faculty advisor to (a) WV Delta Theta (the Tau Beta Pi Engineers student chapter), (b) ASME Chapter, and (c) NFPA Fluid Power Vehicle Club.
- iii. Teaching Faculty for WVU Tech's Upward Bound Program, Summers of 2014-2017 & 2020.
- iv. Reviewer for Journal (J.) of Fluids Eng., Ocean Eng., J. Biomechanics, J. Franklin Institute, Env. Progress & Sustainability, J. Colloid & Interface Sc., ASEE Computers in Education J., ASEE Conferences (National and Section), ASME Conferences (IMECE & Division)
- v. Panelist for NFPA Education Committee, National Science Foundation (NSF), US Air Force SFFP, Department of Defense (DoD) Programs

9. MOST IMPORTANT PUBLICATIONS & PRESENTATIONS –past five years

Selected Peer Reviewed Journal Articles

- i. Yogendra Panta, "Analysis of Mercury (II) Ions Detection under Redox Based Magneto-hydro-dynamically Driven Fluid Convection," *Magneto-hydrodynamics* ISSN 0024-998X, pp. 309-324, Vol. 54 Issue 3, 2018
- ii. Yogendra Panta, A. Paynter, J. Richmond, S. Jarrell, "Static Analysis of a Forklift," *Transactions on Techniques in STEM Education*, pp. 11 – 17, Vol. 2 No. 2, ISSN 2381-649X, Jan. – Mar. 2017
- iii. Yogendra Panta, Levi Thornton, Cody Webb, Roger Targosky, Brendon Rankou, Daniel Richards, "Fostering Students' Capability of Problem Solving Through Semester Projects in Fluid Mechanics," *Transactions on Techniques in STEM Education*, pp. 73- 86, Vol. 2 No. 2, ISSN 2381-649X, Jan.– Mar. 2017
- iv. Yogendra Panta, "Comparative Study of Students' Problem Based Learning Over Two Years Through Semester Projects in Fluid Mechanics," *Transactions on Techniques in STEM Education*, pp. 72- 83, Vol. 2 No. 3, ISSN 2381-649X, Apr. – June 2017

Selected Peer Reviewed Conference Proceedings- Full Papers

- i. Gregory Bottenfield, Kenan Hatipoglu, Yogendra M. Panta, "Advanced Rail Energy and Storage- Analysis of Potential Implementations for the State of West Virginia," *North American Power Symposium (NAPS)*, North Dakota State University in Fargo, North Dakota, Sept. 2018
- ii. Kenan Hatipoglu, Mingyu Lu, Afrin Naz, Yogendra M. Panta, Steven Ken Blevins, "Development of an Integrated Electromechanical Energy Conversion System to Support Undergraduate Electrical Engineering Curriculum," *American Society for Engineering Education (ASEE) Annual Conference & Exposition*, Ohio State University, Columbus, OH, June 2017

Selected Peer Reviewed Conference Abstracts or Short Papers

- i. Yogendra M. Panta, Kenan Hatipoglu, Implementation of "ACUE's "Developing student's career ready skills" module at WVU Tech, Annual Meeting of the West Virginia Academy of Science (WVAS) 95th Meeting, Vol 92, No 1 (2020)
- ii. Kenan Hatipoglu, Yogendra M. Panta, "Deployment of E-Learning modules to foster entrepreneurial mindset among engineering students at WVU Tech," Annual Meeting of the West Virginia Academy of Science (WVAS) 94th Meeting, Vol 91, No 1 (2019)
- iii. Angela McCaskill, Yogendra M. Panta, Kenan Hatipoglu, Sanish Rai, "Faculty Cohort on Teaching and Learning at WVU Tech," Annual Meeting of the West Virginia Academy of Science (WVAS) 94th Meeting, Vol 91, No 1 (2019)
- iv. Yogendra M. Panta, Kenan Hatipoglu, "Implementation of Active Learning Pedagogies to Foster Teaching and Learning Environment," Annual Meeting of the West Virginia Academy of Science (WVAS) 93rd Meeting, Vol 90, No 1 (2018)
- v. Yogendra M. Panta, Kenan Hatipoglu, "Fluid Power Activities in College-Level Fluid Mechanics Teaching," Annual Meeting of the West Virginia Academy of Science (WVAS) 92nd Meeting, Vol 89, No 1 (2017)
- vi. Yogendra M. Panta, "Effectiveness of Demonstration and Visualization based Teaching Resources to Enhance Students' Learning," American Society of Mechanical Engineers (ASME) Fluids Engineering Division Summer Meeting-FEDSM (2016)

10. LIST OF THE MOST RECENT PROFESSIONAL DEVELOPMENT ACTIVITIES

- i. NSF I-Corps Short Course, "Innovative Teaching- Engineering Design" by NSF I-Corps of Cornell University organized by West Virginia University at WVU Tech, Feb. 7 - 22, 2020
- ii. Short Course in "Leadership Skills for Engineering and Science Faculty," MIT Professional Education - Short Programs, Massachusetts Institute of Technology, Cambridge, MA, July 15- July 16, 2019
- iii. Certificate in "Management and Leadership Essentials," The National Aeronautics and Space Administration (NASA) GRC, August 2019
- iv. Certificates in "Leadership and Management- Six Sigma and Self Assessments," The National Aeronautics and Space Administration (NASA) GRC, July 2019
Professional Certificate in "The Science of Happiness at Work, Certificates of Achievement in "Mindfulness and Resilience to Stress at Work," "Empathy and Emotional Intelligence at Work," and "The Foundations of Happiness at Work," "University of California, Berkeley, July 2019
- v. Certificate of Achievement in "Competency-Based Education: The Why, What, and How," Massachusetts Institute of Technology (MIT), March 15, 2019
- vi. Certificate in "Effective College Instruction," Implemented 29 ACUE modules, The Association of College and University Educators (ACUE) & The American Council on Education (ACE), October 2018- Current.
- vii. Certificate of Achievement in "Hands-on Introduction to Engineering Simulations, Cornell University, New York, June 2018