

Steve Hsueh-Ming Wang

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EDUCATION

- 1999 Ph.D., Industrial and Manufacturing Systems Engineering, Lehigh University, Pennsylvania
- 1999 M.S., Management of Technology, Lehigh University, Pennsylvania
- 1989 Master of Manufacturing Engineering, Northwestern University, Illinois
- 1983 B.S., Mechanical Engineering, National Chung Cheng Institute of Technology, Taiwan

EXPERIENCE

ACADEMIC APPOINTMENTS

- 2021-Present Program Lead, Advanced Manufacturing Management, College of Business, Athens State University
- 2023 Adjunct Professor, College of Engineering, University of Alabama Huntsville
- 2019-2020 Associate Professor, Industrial Engineering Program, Sichuan University Pittsburgh Institute
- 2017-2019 Associate Professor, Industrial and Systems Engineering Program, California Baptist University
- 2010-2017 Associate Professor, Engineering and Science Management (ESM) Program, University of Alaska Anchorage
- 2014-2017 Visiting Professor, Mechanical Engineering, National Taiwan University of Science and Technology
- 2013 Adjunct Professor, College of Architecture and Urban Planning, Beijing University of Technology
- 2013 Visiting Professor, Industrial Engineering, Tsinghua University, Beijing
- 2012-2015 ESM Program Chair, University of Alaska Anchorage
- 2012-2014 Honorary International Chair Professor, National Taipei University of Technology
- 2010-2012 Chair of ESM Department, University of Alaska Anchorage
- 2009 Adjunct Professor, Beijing Cohort EMBA program for University of Texas, Arlington
- 2007-2010 Assistant Professor, Coordinator of ESM program, University of Alaska Anchorage
- 2005-2007 Assistant Professor, Director of EMBA program, Chang Gung University
- 1999-2005 Adjunct Professor, Graduate Institute of Commerce Automation and Management (ICAM), National Taipei University of Technology, Department of Systems Engineering, National Defense University, and Department of Management of Information Systems, Shih-Chien University
- 1998-1999 Research Assistant, Industrial Engineering, Lehigh University
Reengineering facilities layout for PEM Co. and Rheteck Co.; Forecasting of production capacity for M. A. Hanna Co.; Activity Based Costing/Management for Lutron Co.
- 1995-1997 Teaching Assistant and Instructor, Industrial Engineering, Lehigh University
Time Motion Study, Advanced Manufacturing Processes

SUPERVISED RESEARCH PROJECTS

- **Steve Hsueh-Ming Wang**, *Geotourism Completion Project*, August 25 to September 30, 2023, University of Alaska Fairbanks, \$5,000, Purchase Order, NO. P0569406.

- **Steve Hsueh-Ming Wang (PI)**, *Analysis of the Sustainable Development of Cells Alive System Hub for Rural Alaska* (Global Sustainable Fisheries of Alaska, \$5,000) October 15, 2016
- **Steve Hsueh-Ming Wang (PI)**, He Liu (Co-I), *Analysis of Technology Change of Waste-to-Energy for Solid Waste Management* (Faculty Development Fund, supported by the University of Alaska Anchorage, \$9,000) July 1, 2011, to December 31, 2011.
- **Steve Hsueh-Ming Wang (PI)**, He Liu (Co-I), *Optimal Analysis of a Hybrid Solar-Wind Power Generation System with LPSP Technology for LED Lighting System on UAA Campus* (Faculty Development Fund, supported by the University of Alaska Anchorage, \$ 9,000) January 1, 2009, to June 30, 2009.
- **Steve Hsueh-Ming Wang (PI)**, *Fall 2008/Spring 2009 Special United Academics Research Travel Grant Round Two for the Institute of Industrial Engineers Annual Conference & Expo 2009* (Research Travel Fund, supported by the University of Alaska Anchorage, \$1,000) July 1, 2008, to June 30, 2009.
- **Steve Hsueh-Ming Wang (PI)**, He Liu (Co-I), Richard Wies (Co-I), *Economic Analysis of Alaska Street Lights by Using Light-Emitting Diode (LED) Technology* (Alaska University Transportation Center [AUTC], total \$145,282, including \$72,641 [AUTC], \$67,641 [University of Alaska], \$5,000 [ColorStars Group]) September 1, 2008, to September 1, 2010.
- **Steve Hsueh-Ming Wang (PI)**, He Liu (Co-I), *Replacement Analysis of Alaska Street Lights by Using Light-Emitting Diode (LED) Energy Saving Technology* (Faculty Development Fund, supported by the University of Alaska Anchorage, \$ 9,000) January 1, 2008, to June 30, 2008.
- **Steve Hsueh-Ming Wang (PI)**, *Ubiquitous Computing for an RFID System Innovation for Health Evaluation Center of Chang Gung Memorial Hospital Implemented by Six Sigma* (supported by the Chang Gung Memorial Hospital, \$10,000) April 1, 2006, to March 30, 2007.

VOLUNTARY CONSULTATIONS ON RESEARCH PROJECTS

- *Research on the Quantitative Model of Personality Career Matching Based on Big Data Methodology and Implementation of the Evaluation System* (International project supported by the Beijing Jiaotong University, China, PI, Hongyang Zhang) April 2013 to April 2014.
- *Extreme Learning Process (XLP)* (International project supported by Tsinghua University, China, PI, Benjamin Koo) January 2013 to September 2013.

TEACHING EXPERIENCE

University of Alabama Huntsville	Graduate	Engineering Management Theory
Athens State University	Graduate Undergraduate	Work and Artificial Intelligence Manufacturing Planning in Lean Production Technologies of Industry 4.0 Manufacturing Materials and Processes Operations Management Management of Technology Management of Change
Sichuan University Pittsburgh Institute	Undergraduate	Engineering Management Quality Assurance and Design of Experiments Human Factors Engineering Statistical Test and Regression Engineering Economic Analysis Quality Management and Six Sigma

California Baptist University	Undergraduate	Engineering Economics, Engineering Statistics, Engineering Design, Quality Control, Operations Research, Introduction of Industrial Systems Engineering, Leadership Cohort
University of Alaska Anchorage	Graduate	Computer Simulation of Systems, Total Quality Management, Engineering Economy, Statistics for ESM, Technology Management, Operations Research, Project Quality Management, Engineers in Organizations, Project Cost Management, ESM Project, ESM Thesis
	Undergraduate	Engineering Economy and Operations
National Taiwan University of Science and Technology	Graduate	Sustainable Design-Centered Manufacturing
Beijing University of Technology	Graduate	Service Design, Engineering Economy
University of Texas, Arlington	Graduate	Project Management
Chang Gung University	Graduate	Project Management, Management of Technology, Total Quality Management, Information Technology and Competitive Advantages, Time Series Analysis
	Undergraduate	Statistics, Engineering Economics
Shih-Chien University	Undergraduate	System Analysis and Design Enterprise Resource Planning and Logistic Management
National Taipei University of Technology	Graduate	Field Study Seminar, Sustainable Design-Centered Management
	Undergraduate	Business Statistics, Total Quality Management
National Defense University	Graduate	Quality Engineering, Supply Chain Management, Global Manufacturing Logistics, Sustainability and Life Cycle Cost Analysis
	Undergraduate	Precision Engineering, Computer Integrated Manufacturing (CIM), Acquisition Management, Statistical Process Control, Inspection and Sampling, Six Sigma Quality Management

PATENTS

"Method for Measurement and Verification of the Optimum Optical Path for Ring Laser Gyroscope"

- United States Patent, Patent No.: US6396585 B1, May 28, 2002.
- Taiwan Patent, Patent No.: Invention 129672, March 2001.

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JOURNAL PAPERS

Simon P Philbin and **Steve Hsueh-Ming Wang**, "Perspectives on the Techno-Economic Analysis of Carbon Capture and Storage," *Journal of Technology Management & Innovation*, Vol. 14, Issue 3, pp. 3-17, 2019.

† My student

- Jingxiao Zhang, Hui Li, and **Steve Hsueh-Ming Wang**, "Analysis and Potential Application of the Maturity of Growth Management in the Developing Construction Industry of a Province of China: A Case Study," *Sustainability*, Vol. 9, No. 143, 2017; doi:10.3390/su9010143.
- Steve Hsueh-Ming Wang**, "Sustainable Program Quality Management of International Infrastructure Construction," *Frontiers of Engineering Management*, Vol. 3 No. 3, pp. 239-245, 2016.
- Steve Hsueh-Ming Wang**, Paula Williams, Jing Shi, and Huojun Yang, "From Green to Sustainability - Trends in the Assessment Methods of Green Buildings," *Frontiers of Engineering Management*, Vol. 2 No. 2, pp. 114-121, 2015.
- Jung-Fa Tsai, C. Alec Chang, Chih-Chou Chiu, and **Steve Hsueh-Ming Wang**, "Optimization Methods in Information and Management Sciences - Editorial," *The Scientific World Journal*, Vol. 2015, Article ID 498951, 2015.
- Sheng-Shu Cheng, Fong-Jung Yu, and **Steve Hsueh-Ming Wang**, "A CUSUM Control Chart to Monitor Wafer Production Quality," *Journal of Information & Optimization Sciences*, Vol. 35, No. 5-6, pp. 483-501, January 2015.
- Steve Hsueh-Ming Wang**, Yen Rei Qui, Chao-Chang Chen, and Shu Ping Chang[†], "A Survey of Sustainable Design-Centered Integration for Medical Additive Manufacturing," *Advanced Materials Research*, Special Volume: Advances in Materials and Processing Technologies, XVI, p.635, 2014.
- Steve Hsueh-Ming Wang**, Sheng Pen Wang, and Wenyih Lee, "Reducing Client Waiting Time in a Health Evaluation Center Using the Design for Six Sigma Method," *Engineering Management Journal*, Vol. 26, No. 2, pp. 62-73, June 2014.
- Jing Shi, Chunhui Ji, Yachao Wang, and **Steve Hsueh-Ming Wang**, "Tool/Chip Interfacial Friction Analysis in Atomistic Machining of Polycrystalline Coppers," *Journal of Micro and Nano-Manufacturing*, 2(4):041001-041009, 2014.
- Hiroyuki Matsuura, Edgar Blachford, **Steve Hsueh-Ming Wang**, and Tony Nakazawa, "Who is the Samurai Musher? Jujiro Wada: The Jujiro Wada Story as a Geotourism/Cultural Tourism Opportunity for Alaskan Communities," *Studies in Science and Technology*, Vol. 3, No. 2, pp. 165-168, December 2014.
- Hiroyuki Matsuura, Anthony Tasashi Nakazawa, Ted Jacobson, Doug Huntsman, Edgar Blatchford, and **Steve Hsueh-Ming Wang**, "Can We Address Village Alaska's Solid Waste Problem? Rural Development Management Strategies to Address a Vital Element of Rural Alaska Sustainability," *Taisei Gakuin University Bulletin*, Japan, Vol. 16, No. 33, pp. 123-134, March 2014.
- Steve Hsueh-Ming Wang**, "Searching the Future Global Entrepreneurship from the History - the Alaskan Legacy of Jujiro Wada," *Quality Magazine*, Chinese Society for Quality, Vol. 49, No. 3, pp. 18-23, March 2013 (in Chinese).
- Steve Hsueh-Ming Wang**, "Trends in Sustainable Design-Centered Manufacturing," *Advanced Materials Research*, Vol. 579, pp.494-500, October 2012.
- Steve Hsueh-Ming Wang**, K. M. Spohn, LuAnn Piccard, and Lei Yao[†], "Feasibility Study of the Wind Power Generation System at Arctic Valley of Anchorage," *Engineering Management Journal*, Vol. 22, No. 3, pp. 21-33, September 2010.
- Steve Hsueh-Ming Wang**, "Important Factors for Organizational Performance Evaluation through Implementation of Earned Value Management (EVM) in Northern Taiwan," *Journal of Society of Project Management International*, Japan, August 18, 2008.
- Steve Hsueh-Ming Wang**, "The Emerging Trend and Development of Project Management," *Manager Today*, pp. 146-157, Taiwan, April 2008 (Invited to publish in Chinese).
- Steve Hsueh-Ming Wang**, Ming-Yang Huang, "Strategy Analysis of Taiwan Defense Industry," *Strategy and International Research*, 4(2), Taiwan Research Institute, pp. 19-47, March 2002 (Invited to publish in Chinese).
- Steve Hsueh-Ming Wang**, G. Sathyanarayanan, and Louis Plebani, "Modeling Considerations for Ultrasonic Machining," *Abrasives Magazine*, pp. 16-24, October/November 1998.
- Steve Hsueh-Ming Wang**, Mi-Hsiang Wen and Lung Yung Lin, "Introduction of Micro-Electro-Mechanical Systems (MEMS)," *Hsin Hsin Bimonthly of CSIST*, 1994 (in Chinese).

[†] My student

BOOKS AND CHAPTERS

- Steve Hsueh-Ming Wang**, Sustainable Service Design and Management, Springer Nature Singapore (Work in process)
- Steve Hsueh-Ming Wang**, Analysis of the Evaluation and Trends of Service Design, Report of the Development of Service Design in China, Publishing House of Electronics Industry, pp. 312-324, 2016. (in Chinese)
- Steve Hsueh-Ming Wang**, *Six Sigma Project Management*, Chinese Society for Quality, 2nd Edition, March 2006. (in Chinese)
- Steve Hsueh-Ming Wang**, *Analysis of the Effect of the Process Parameters on Material Removal Rate in Ultrasonic Machining*, Ph.D. Dissertation, Lehigh University, January 1999. (Advisor, Guruswamy Sathyanarayanan)
- Steve Hsueh-Ming Wang**, *Management of the Technology Change for the PC-based Information System*, MS thesis, Lehigh University, January 1999. (Advisor, Ted Shlie)
- Steve Hsueh-Ming Wang**, G. Sathyanarayanan, and Louis Plebani, "Ultrasonic Machining: 1907 to Present," *Manufacturing Science and Technology*, Vol. 2 ASME, pp. 169-176, 1997.
- Steve Hsueh-Ming Wang**, G. Sathyanarayanan, and Louis Plebani, "Effect of Creep Feed Grinding Parameters on Strength and Finish of Alumina," *Composites and Functionally Graded Materials*, ASME, pp. 411-415, 1997.
- Steve Hsueh-Ming Wang**, *Vibration Control in a High-Speed Gantry Type CNC Machine*, project report for Master of Manufacturing Engineering, Northwestern University, September 1989. (Advisor, Kornel Ehmann)

PROCEEDINGS PAPERS

- Eyob Messele Sefene, Chao-Chang Arthur Chen, and **Steve Hsueh-Ming Wang**, "Sustainable Analysis of Energy Consumption and Surface Quality of Monocrystalline Silicon in Diamond Wire Sawing," Proceeding of the ASME 2023 18th International Manufacturing Science and Engineering Conference, New Brunswick, New Jersey, USA, June 12-16, 2023.
- Simon P. Philbin and **Steve Hsueh-Ming Wang**, "Investigating the Critical Success Factors for the Management of Carbon Capture and Storage (CCS) Projects," Proceedings of the International Top-Level Forum on Engineering Science and Technology Development Strategy, 2017, Beijing, May 12-14, 2017.
- Steve Hsueh-Ming Wang**, "Strategy for Development of Geotourism Industry through Establishing a Sustainability Research Center at UAA," *Proceedings of the 11th International Green Energy Conference*, International Association for Green Energy, Anchorage, Alaska, USA, May 8-11, 2016.
- Steve Hsueh-Ming Wang**, "Analysis of the Life Cycle for LED Based Streetlights in Alaska," *Proceedings of the 11th International Green Energy Conference*, International Association for Green Energy, Anchorage, Alaska, USA, May 8-11, 2016.
- Steve Hsueh-Ming Wang**, Shu-Ping Chang[†], and Jing Shi, "Determination of Sustainable Design-Centered Factors for Manufacturing Bioprinting Material of Polylactic Acid," *Proceedings of the ASME 2015 International Manufacturing Research Conference, MSEC 2015 and NAMRC 43*, Charlotte, North Carolina, USA, June 8-12, 2015.
- Steve Hsueh-Ming Wang**, Shu-Ping Chang[†], Paula Williams, Benjamin Koo, and Yan-Rui Qu, "Using Balanced Scorecard for Sustainable Design-Centered Manufacturing," *Proceedings of the ASME 2015 International Manufacturing Research Conference, MSEC 2015 and NAMRC 43*, Charlotte, North Carolina, USA, June 8-12, 2015.
- Steve Hsueh-Ming Wang** and Teresa J. Williams, "Feasibility Analysis of Using Local Remanufactured Products – A Case Study of Industrial Starts and Alternators," *Proceedings of the ASME 2015 International Manufacturing Research Conference, MSEC 2015 and NAMRC 43*, Charlotte, North Carolina, USA, June 8-12, 2015.
- Chris McConnell[†] and **Steve Hsueh-Ming Wang**, "Implementing Building Information Modeling (BIM) for Construction Management of the Sports Arena of the University of Alaska Anchorage," *Proceedings of the 2015 Industrial and Systems Engineering Research Conference*, Nashville, Tennessee, May 30 – June 2, 2015.

[†] My student

- Chunhui Ji, Jing Shi, Yachao Wang, and **Steve Hsueh-Ming Wang**, "Tool/Chip Interfacial Stress Distributions in Atomistic Machining of Polycrystalline Coppers," *Proceedings of the ASME 2014 International Manufacturing Science and Engineering Conference, MSEC2014*, Detroit, Michigan, USA, June 9-13, 2014.
- Steve Hsueh-Ming Wang**, Lei Yao[†], and Shi Jing, "Sustainable Design of a Smart Grid Photovoltaics System for Subarctic Regions," *Proceeding of the Ninth Annual Green Energy Conference*, International Association for Green Energy, Tianjin, China, May 25-28, 2014.
- Ergin Erdem, Ying She, Jing Shi, and **Steve Hsueh-Ming Wang**, "Vector Auto-Regressive Models with Exogenous Variables for Predicting Wind Speed," *Proceeding of the Ninth Annual Green Energy Conference*, International Association for Green Energy, Tianjin, China, May 25-28, 2014.
- Steve Hsueh-Ming Wang** and James C. Casper[†], "Scenario Analysis of Alaska's Power Cost Equalization Endowment Fund for Electrical Subsidies in Rural Alaska," *Proceedings of the 2013 International Annual Conference of ASEM*, Minneapolis, MN, October 2, 2013.
- Steve Hsueh-Ming Wang** and Zhi Li[†], "Strategic Analysis of Project Portfolio Management for World Bank in China from 1996 to 2008," *Proceedings of the 11 International Annual Conference of ASEM*, Lubbock, Texas, October 19-22, 2011.
- Steve Hsueh-Ming Wang**, Oleg Bukhtiyarov[†], and Jimmy Chen, "Reliability Analysis of LED Based Streetlights on the Temperature Effect," *Proceedings of the IES Annual Conference*, Toronto, Canada, November 5-9, 2010.
- Steve Hsueh-Ming Wang**, LuAnn Piccard, Chris Pedersen[†], and Lei Yao[†], "Schedule Slip Forecasting for Oil and Gas Engineering Projects," *Proceedings of the 30th Annual National Conference of the American Society for Engineering Management 2009*, Springfield, Missouri, USA, October 15, 2009.
- Karl M. Spohn[†], **Steve Hsueh-Ming Wang**, LuAnn Piccard, and Lei Yao[†], "Feasibility Study of Wind Power Generation System at Arctic Valley," *Proceedings of the 30th Annual National Conference of the American Society for Engineering Management 2009*, Springfield, Missouri, USA, October 15, 2009.
- Steve Hsueh-Ming Wang**, Helen Liu, and Jimmy Chen, "Replacement Analysis of the LED Lighting Systems," *Proceedings of the 4th Annual International Project Management Conference (PROMAC 2008)*, Anchorage, Alaska, USA, September 15, 2008.
- Steve Hsueh-Ming Wang**, Lin-Cheung Chen[†], Helen Liu, and Jang Ra, "Analysis of the Future R&D Collaboration and Competition Strategies for ICT & FPD Industries Between Taiwan and South Korea," *Proceedings of the Annual Meeting of Production and Operation Management Society (POMS)*, San Diego, California, May 8, 2008.
- Steve Hsueh-Ming Wang**, "Adaptive Control of Patient Scheduling with RFID Technology in a Health Evaluation Center," *Proceedings of the 37th Annual Meeting of the Decision Sciences Institute*, San Antonio, Texas, November 2006.
- Steve Hsueh-Ming Wang** and Yuan Tz Ho[†], "Analysis of Brand Equity for the Essence of Chicken in the Taiwan Health Food Market," *The 2006 International Conference of Management of Healthcare and Biotechnology Industry*, Taipei, Taiwan, July 2006.
- Steve Hsueh-Ming Wang**, Wen-yih Lee, and Da-Ren He, "Uncertainty Estimation of a Calibration Curve in Chemical Analysis," *Proceedings of the 3rd ANQ Congress and 19th Asia Quality Symposium*, Taipei, Taiwan, pp. 819-828, September 2005.
- Steve Hsueh-Ming Wang**, "Verification of the Conditions for Implementation of Earned Value Management (EVM) Methodology in the Governmental R & D Organization in Taiwan," *Proceedings of the Portland International Conference for Management of Engineering and Technology (PICMET)*, Portland, Oregon, USA, July 2005.
- Steve Hsueh-Ming Wang**, M. Y. Huang, and F. S. Lin, "A Study of Strategies for Total Quality Management in Taiwan," *Proceedings of the 2001 Conference of Asian Quality Association*, Daejeon, Korea, pp. 43-46, November 2001.
- Steve Hsueh-Ming Wang**, Chuag Liang Hsu, and Lung Yung Lin, "The Application of Petri Nets for Supply Chain Management," *Proceedings of the Sixth International Automation Conference*, Taipei, Taiwan, pp. 941-955, May 2000.

[†] My student

- Steve Hsueh-Ming Wang**, Mi-Hsiang Wen and Lung Yung Lin, "A Stochastic Approach to Predict Fracture Zone and Material Removal Rate in Ultrasonic Machining," *Proceedings of the International Precision Engineering Conference*, Singapore, March 2000.
- Steve Hsueh-Ming Wang**, Mi-Hsiang Wen, and Lung Yung Lin, "The Measurement Algorithm for the Quality Control of the Interface Between an Optic and Mechanical Device," *Proceedings of the International Precision Engineering Conference*, Singapore, March 2000.
- Steve Hsueh-Ming Wang**, Mi-Hsiang Wen, and Lung Yung Lin, "A Low-Cost Design for the CIM of Different Types of CNC Controller," *Proceedings of the Second International Conference on Manufacturing Technology*, Hong Kong, December 1993.
- Steve Hsueh-Ming Wang**, Mi-Hsiang Wen, and Lung Yung Lin, "Improvement of Rotary Ultrasonic Deep Hole Drilling of Glass Ceramics - Zerodur," *Proceedings of the Seminar of the 7th International Precision Engineering*, Kobe, Japan, May 1993.

CONFERENCE PRESENTATIONS

- Steve Hsueh-Ming Wang**, Nicholas Loyd, and Sampson Gholston, "The Sustainable Factors Driving Industrial Revolutions for Engineering Management," The International Annual Conference of ASEM, Denver, Colorado, USA, October 25, 2023.
- Steve Hsueh-Ming Wang**, "Sustainable Service Design and Management for the New Product Development by using Metaverse Technologies," The International Annual Conference of ASEM, Tampa, Florida, USA, October 6, 2022.
- Steve Hsueh-Ming Wang**, "Strategic Analysis for Development of Higher Educational Programs in Advanced Manufacturing Management, The International Annual Conference of ASEM, online, USA, October 28, 2021.
- Steve Hsueh-Ming Wang**, "A Case Study of New Product Development through Sustainable Design-Centered Manufacturing," The International Annual Conference of ASEM," Philadelphia, Pennsylvania, USA, October 26, 2019.
- Steve Hsueh-Ming Wang**, "Diversity Assessment of Human Cognition System," The International Annual Conference of ASEM, Huntsville, Alabama, USA, October 20, 2017.
- Steve Hsueh-Ming Wang** and Dave McCourney†, "A Comparison of Treatment Costs for Cancer with High Mortality Rates between the Continental United States and Alaska," International Conference on Healthcare and Management, Taipei, Taiwan, June 26-29, 2016.
- Steve Hsueh-Ming Wang** and Isaac Pearson†, "A Survey of the Internet of Things for Quality Management in Engineering Design Service," The International Annual Conference of ASEM, Indianapolis, Indiana, USA, October 8, 2015.
- David Dehass, Anthony Nakazawa, Hiroyuki Matsuura, **Steve Hsueh-Ming Wang**, and Edgar Blatchford, "The Technology Transfer Role of the Cooperative Extension Model in Remote Rural Communities: the Alaska Experience," The 8th International Technology, Education, and Development Conference, Valencia, Spain, March, 10-12, 2014.
- Steve Hsueh-Ming Wang**, Benjamin Koo, Fei Shi, Li-Qian Yeung, and Tien-Fa Hou, "Assessment of Trans-Disciplinary System Integration for Extreme Learning at Tsinghua University, China," The Industrial and Systems Engineering Research Conference (ISERC), Puerto Rico, May 18-22, 2013. (Invited Speaker)
- Steve Hsueh-Ming Wang**, Cheyenne Alabanzas†, "Health Risk Analysis of Adapting Plasma Gasification Process for Solid Waste Management," ISERC, Puerto Rico, May 18-22, 2013. (Invited Speaker)
- Steve Hsueh-Ming Wang**, "Sustainable Service and the Tourism Center at the University of Alaska Anchorage," Cultural Tourism Summit, Alaska Native Heritage Center, April 19, 2013.
- Steve Hsueh-Ming Wang**, Leslie Simmons†, and Anthony Nakazawa, "Evaluation of Technological and Environmental Impacts of Plasma Gasification Process for Waste-to-Energy," ISERC, Orlando, Florida, May 19-23, 2012.

† My student

- S. Jimmy Gandhi and **Steve Hsueh-Ming Wang**, "Obtaining a Competitive Advantage in Global Sourcing Projects by Implementing Social Sustainability Metrics," ISERC, Orlando, Florida, May 19-23, 2012.
- Steve Hsueh-Ming Wang**, "Sustainable Design-Centered Manufacturing," the 4th International Conference on Advanced Manufacturing (ICAM) - 2012, Yilan, Taiwan, March 4-8, 2012. (Invited speaker)
- Steve Hsueh-Ming Wang**, "Manufacturing for Design and Sustainability, Institute for Operations Research and the Management Sciences (INFORMS), Charlotte, North Carolina, November 13-16, 2011.
- Steve Hsueh-Ming Wang** and Lei Yao[†], "Feasibility Analysis of a Mini Smart Grid Photovoltaic System," IERC, Reno, Nevada, May 21-25, 2011.
- Leslie Simmonst[†] and **Steve Hsueh-Ming Wang**, "The Critical Factors for Decision-making of the Technology Policies of the Industrialized Countries for Municipal Solid Waste Management," INFORMS, Austin, Texas, November 7-10, 2010.
- Steve Hsueh-Ming Wang** and Muchiu Chang "Cognitive Oriented Integration for Innovation Management," INFORMS, Austin, Texas, November 7-10, 2010.
- Seong Dae Kim and **Steve Hsueh-Ming Wang**, "Curriculum Development for the Innovation Management Program for Sustainability," INFORMS, Austin, Texas, November 7-10, 2010.
- Peter Lang[†] and **Steve Hsueh-Ming Wang**, "Agility Management for Project Sustainability," INFORMS, Austin, Texas, November 7-10, 2010.
- LuAnn Piccard, **Steve Hsueh-Ming Wang**, and Lei Yao[†], "Patent Mapping for Forecasting the Technology Change of Light Emitted Diode (LED) Street Lights," INFORMS, San Diego, California, October 12, 2009.
- Oleg Bukhtiyarov[†], LuAnn Piccard, and **Steve Hsueh-Ming Wang**, "Optimization Analysis of Warranty for the Technology Change of LED Streetlights," INFORMS, San Diego, California, October 12, 2009.
- Lei Yao[†], LuAnn Piccard, and **Steve Hsueh-Ming Wang**, "Replacement Analysis of Small Off-Grid Nuclear Reactors," INFORMS, San Diego, California, October 12, 2009.
- Steve Hsueh-Ming Wang**, He Liu, and LuAnn Piccard, "Optimal Analysis of a Hybrid Solar-Wind Power Generation System with LPSP Technology for an LED Lighting System," INFORMS, San Diego, California, October 12, 2009.
- Steve Hsueh-Ming Wang**, "RFID for Grouped-Patient Waiting Time in a Health Evaluation Center," IERC, Miami, Florida, May 30, 2009.
- Steve Hsueh-Ming Wang**, "Sustainability Design and Analysis of a Light-Emitting Diode (LED) System," INFORMS, Washington, D. C., October 14, 2008.
- Steve Hsueh-Ming Wang**, "Reducing Patient Waiting Time in a Health Evaluation Center Using the Six Sigma Method," INFORMS, Seattle, Washington, November 6, 2007.
- Steve Hsueh-Ming Wang** and Chien-Ting Lee[†], "Designing the Stock Trading Processes in the Proprietary Trading Department of a Securities Firm by Utilizing the Six Sigma Method," INFORMS, San Francisco, California, November 2005.

INDUSTRY/NATIONAL LABORATORY APPOINTMENTS

1999-2005 Program Manager, Reengineering Specialist, National Chung Shan Institute of Science and Technology (NCSIST), Taiwan.

- Member of the NCSIST organizational reengineering committee
- Project manager for implementation of a balanced scorecard performance evaluation system for NCSIST
- The pilot implementer of the Earned Value Management system for program management
- Project lead for the design of servo mechanisms for IC sputtering machine and manufacturing process for ring laser gyroscope

1989-1994 Director of Manufacturing and Technical Manager, Chung Shan Institute of Science and Technology, Taiwan.

Was project lead for the following technologies:

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- Nontraditional manufacturing, including Electrical Discharge Machining (EDM) and Rotary Ultrasonic Machining (RUM)
- Glass-ceramics manufacturing and metrology for optic devices
- Computer Integrated Manufacturing (CIM)
- High-speed machining
- Brittle material grinding, lapping, and polishing
- Direct Numerical Control (DNC) system, including RS232 interface networking
- Process quality control

1983-1988 Manufacturing Engineer, Chung Shan Institute of Science and Technology, Taiwan.

As an engineer, I worked on the following technologies:

- CAD/CAM, including CNC programming
- Design of Standard Operation Procedure (SOP) for a batch production system
- Cutting tools inventory control system
- Fine blanking
- Treatment for residual stress relief after machining

INVITED TALKS, COMMENTARIES, AND WORKS

- "3D Printing for Electronics Spring Meeting," Association for Iron & Steel Technology (AIST)," March 21, 2023.
- "Quality Management for Sustainable Development in Construction Programs," Frontier Seminar of Civil Engineering, Beijing University of Technology, July 16, 2019.
- "Innovative Service Design and Development Workshop," 2018 International Service Design Workshop, Beijing University of Technology, July 13-17, 2018.
- "Sustainable Design and Management," College of Civil and Environmental Engineering, University of Beijing Science and Technology, July 9-12, 2018
- "Cognitive Analytics for Strategic Management of Service-embedded Manufacturing," Invited speaker, 2017 International Service Design Forum, Beijing, June 29, 2017.
- "iTourism and iService," invited speaker, The Bristol Bay Borough Chamber of Commerce, King Salmon, April 16, 2016.
- "Village Based Entrepreneurship," invited speaker, UAF, Bristol Bay Campus, February 15, 2016.
- "Accountability for Sustainability," invited speaker, Mechanical Engineering, National Taiwan University of Science and Technology, December 22, 2015
- "Sustainable Program Quality Management of International Infrastructure Construction," The Second International Forum on Engineering Management & the 10th China Engineering Management Forum (IFEM & CEMF 2016), hosted by the Chinese Academy of Engineering, Xian, China, August 15-17, 2016.
- "Sustainable Development of Green Buildings," invited speaker, The First International Forum on Engineering Management & the 9th China Engineering Management Forum (IFEM & CEMF 2015), hosted by the Chinese Academy of Engineering, Guangzhou, China, May 12-13, 2015.
- An official presentation of the Jujiro Wada story to the Sister City Delegation from Chitose, Japan, at the Anchorage Museum, July 2014.
- "LED Lighting for Indoor Plants," Alaska Orchid Society, April 22, 2014.
- "Sustainability and Green Buildings," College of Engineering Speech Series, UAA, April 22, 2014.
- "Survey of the Implementation of Building Information Modeling (BIM) in the Western Counties," Beijing University of Technology, November 2013.
- "Tourism as a Positive Force in the Public Process," Discussant for the Detroit Tourism Conference, August 8, 2013.
- "Assessment of Transdisciplinary System Integration Extreme Learning at Tsinghua University," College of Engineering Speech Series, UAA, March 20, 2013.

- "Assessment of Transdisciplinary System Integration Extreme Learning Workshop," Program consultant and observer, Tsinghua University, China, January 14 to 17, 2013.
- "Sustainability for Education," Business College, Chang Gung University, January 2013.
- "The Trend of the Industrial Design in China," Chang Gung University, December 2012.
- "Competitive Advantage through Sustainable Design-Centered Management," Alumni Advisory Board of the National Taipei University of Technology, December 2012.
- "Building Information Modeling, BIM," Sichuan University, China, November 2012.
- "Green Architectures," Sichuan University, China, November 2012.
- "Sustainable Design-Centered Manufacturing," National Taiwan University of Science and Technology, National Taipei University of Technology, Fu Jen University, Kainan University, Beijing University of Technology, Fall Semester, 2012.
- "Balanced Scorecard," Arctic Slope Regional Corporation Energy Services, April 23, 2012.
- "Decision Making – A Peaceful Mind Generates Power," Rotary Club of Anchorage Russian Jack, August 30, 2011.
- "The Emerging Trend and Development of Project and Engineering Management," School of Traffic and Transportation Engineering, Changsha University of Science and Technology, Changsha, China, October 21, 2010.
- "Quality Management System, ISO 9001:2008," for CH2MHILL and American Society for Quality, Alaska Section, BP Energy Center, October 29, 2009.
- "Unlimited Infinite – Leading in the Fundamental Change," Providence University, Taiwan, June 18, 2009.
- "Sustainability," American Society for Quality, Alaska Section, BP Energy Center, March 12, 2009.
- "My Humble Observation for Quality Management in Alaska," American Society for Quality, Alaska Section, BP Energy Center, January 22, 2009.
- "EQUATOR AQUARIAN CLINIC – Pediatric Health Care Center, Rwanda, East Africa," Project Engineer for Design for Children Competition, January 15, 2009, <http://designforthechildren.org/index.php>.
- "Program Management - Recent Research on Program Management of Alaska Pipelines," National Project Management Association (NPMA), Taiwan, June 24, 2008.
- "The Emerging Trend of Education Program for Engineering and Science Management," Master Speech, Beijing University of Technology, Beijing, China, May 2008.
- "The Emerging Trend of Education Programs for Project Management," Master Speech, Beijing University of Technology, Beijing, China, May 2008.
- "The Emerging Trend and Development of Project Management," Keynote speaker of the annual meeting of the National Project Management Association (NPMA), Taiwan, January 2008.
- "The Emerging Trend of Project Management – Project Portfolio Management," ConocoPhillips, Anchorage, December 2007.
- "The Application of Blue Ocean Strategy and Model Simulation," Top-Level Managers Forum, Chang Gung Medical Center, Taiwan, March 2006.
- "Historical Survey of High-Tech Development and Encouragement Strategies for R & D Activities in Hsinchu Science Park of Taiwan," Hanbat University Forum, South Korea, June 2005.
- "Six Sigma Quality Management," Top Level of Quality Managers Forum, Department of Rapid Transit Systems, Taipei City Government, March 2004 (in Chinese).

HONORS AND AWARDS

- 2015 Meritorious Service Award of the American Society for Engineering Management
- 2014 REIMAGINE EDUCATION Regional Award, Asia for Extreme Learning Process (XLP) project (team member)
- 2013 Alaska Governor's North Star Award for International Excellence in Humanitarian Efforts (team member)

- 2012 Honorary International Chair Professorship in Management of Technology, received from National Taipei University of Technology (2012 to 2014)
- 2010 Meritorious Service Award of the American Society for Engineering Management
- 2005 Personal Quality Award of the Chinese Society for Quality, Taiwan
- 2003 Second Grade Medal for senior excellent voluntary counseling from the Taiwan government.
- 1999 Medal of Scholarship, Second Class, from the Taiwan government.
- 1994 Order of Loyalty and Diligence from the Taiwan government.
- 1993 Medal of Excellent Efficiency, given to excellent researchers by the Taiwan government.
- 1992 Gold Hand Medal for excellent voluntary counseling from the Taiwan government

PROFESSIONAL MEMBERSHIPS AND CERTIFICATES

Society for Maintainance and Reliability Professionals (SMRP)
Society for Manufacturing Engineers (SME)
American Society Engineering Management (ASEM), Certified Professional in Engineering Management (CPEM)
Chinese Society for Quality (CSQ), Taiwan, Life member
Chinese Society for Management of Technology, Taiwan, Life Member
National Project Management Association, Taiwan, Life Member
Taiwan Association of Abrasive Technology, Life Member

PROFESSIONAL SERVICES

Track chair of EM Skills and Education, The 42nd International Annual Conference of ASEM, On-line, USA, October 28, 2021.

Member of Manufacturing Systems Technical Committee for Technologies Development for Cognitive Design-thinking Manufacturing, 2018 ASME International Manufacturing Science and Engineering Conference (MSEC)

Board Member, National Project Management Association, Taiwan, 2018-2021

Chief Editor, the special issue of sustainability, Journal of Frontiers of Engineering Management, 2017-2018.

Track chair of Project Management, The International Annual Conference of ASEM, Huntsville, Alabama, USA, October 20, 2017.

President of the 11th International Green Energy Conference, Anchorage, Alaska, USA, May 8-11, 2016

Lead Faculty Project Advisor, Geotourism Development of the World Wildlife Fund, The Bristol Bay Borough Chamber of Commerce, King Salmon, Alaska, February – May 2016

Guest Editor, Special Issue "Optimization Methods in Information and Management Sciences," The Scientific World Journal, 2014

Editorial Review Board, Journal of Modern Project Management (MIT, Sloan School of Management)

Editorial Review Board, International Journal of Business Analytics

Advisory Board member of the EMBA Alumni Association of the National Taipei University of Technology

Board of the Alaska Geotourism Committee, 2013-now

Advisory Board of the Engineering Economy Division of the Industrial Engineering Research Conference (IERC), 2013-2015

President of the Engineering Economy Division of the Industrial Engineering Research Conference (IERC), 2011-2012

Session Chair of the 2012 International Society for Quality Management (ISQM), Taiwan, November 2012

Chair for the Sustainability for Business Intelligence on Technology Management and New Product Development Session of the Institute of Operation Management and the Management Science (INFORMS), USA, 2011

Chair of the Innovation Management for Sustainability Session of the Institute of Operation Management and the Management Science (INFORMS), USA, 2010

Board of the Committee of Sustainability Action, University of Alaska Anchorage, 2010 - 2011 and 2014
Editor of Practice Periodical, American Society for Engineering Management (ASEM), 2009-2010
Board member, American Society for Engineering Management (ASEM), 2009-2010
Track Chair of the Engineering Economy session of the Industrial Engineering Research Conference (IERC), 2011
Communications Director, Engineering Economy Division Board, Institute of Industrial Engineers, 2009-2010
Chair of the Technology Change Management for Sustainability Session of the Institute of Operation Management and the Management Science (INFORMS), USA, 2009
Leadership Team Member of the National Coalition Building Institute (NCBI) of the University of Alaska Anchorage (Since 2009)
International Organizing Committee Chair, the 4th International Project Management Conference (PROMAC 2008), Anchorage, Alaska, USA, September 2008
Session chair of the 2006 International Conference of Management of Healthcare and Biotechnology Industry, Taipei, Taiwan, July 2006
Voluntary supervisor for psychological counselors of Teacher Chang, Taipei Counseling and Guidance Center, Taiwan, 2003 to 2007
Chairperson of the publish affairs committee in CSQ, Taiwan, 2003 to 2007
Member of the international affairs committee in CSQ, Taiwan, 2002 to 2007
Observer, board meeting of the Asian Network for Quality in Tokyo, Japan, 2005
Volunteer counselor at Teacher Chang, Taipei Counseling Center, Taiwan, 2000 to 2003 and 1990 to 1995
VP of the student chapter of the Society of Manufacturing Engineering, Lehigh University, 1999
President, Chinese Student Association at Lehigh University, 1998

COMPUTER AND OTHER SKILLS

Fluent in English and Chinese; able to read Japanese
SPSS, Matlab, E Views, Arena, Lisrel, CAM & CNC programming, and Statgraphics
Certificate of Art Instruction Schools, Minneapolis (Student No. 168767)
New Faculty Institute, the Council for Christian Colleges & Universities, Calvin College, Grand Rapids, MI, June 4-7, 2018.
Sustainability across Curriculum Workshop, AASHE, Emory University, January 10-11, 2012
The Mediation Process, 40hrs training by Mares-Dixon & Associates, February 2010
Counseling, Voluntary "Teacher Chang," Taiwan