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 Associate Vice-Provost for International Affairs &
 AT&T Professor of Industrial Engineering
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EDUCATION

Ph.D.	Virginia Polytechnic Institute & State University	1993
M.S.I.E.	University of Miami	1988
B.S.M.E.	University of Miami	1981

Major Areas of Interest: Systems and Engineering Management, Advanced Economic Analysis, Management of Technology, White-Collar/Knowledge Work Productivity and Performance Measurement, Operations and Systems Engineering.

Faculty Web-page: <http://www.depts.ttu.edu/iweb/faculty/faculty.php?name=Mario%20Beruvides>

Certifications

National Academy of Inventors, member, 2017
 American Society of Engineering Management Fellow, 2007
 Professional Engineer, State of Texas # 85045.
 Meyers-Briggs Type Indicator (MBTI) CAPT Certified Practitioner, 1998.
 Mediator, State of Texas, 1999
 Arbitrator, State of Texas, 1999
 Family/Divorce Mediator, State of Texas, 2000
 Agricultural Mediator, USDA, 2000
 Agricultural Arbitrator, USDA, 2001
 CPS Mediator, State of Texas, 2007

EXPERIENCE

Research & Teaching

Texas Tech University	Associate Vice-Provost for International Affairs	2022-present
	Associate Dean – Graduate School	2021-2022
	Director – TTU Interdisciplinary Studies	2021-2022
	Associate Department Chair	2014-2018
	AT&T Professor of Industrial Engineering	2008-present
	Professor	2005-present
	Associate Professor	2000-2005
	Assistant Professor	1994-1999
	Assistant Professor	1993-1994
	Graduate Research and Teaching Assistant	1990-1993
University of Texas at El Paso VPI&SU		

Industrial

CIBA-GEIGY Miami, FL	Project Manager	1985-1990
AFA Corporation Miami Lakes, FL	Product Development Engineer	1983-1985
Security Plastics, Inc.	CAD/CAM Engineer	1982-1983

Miami Lakes, FL

RESEARCH ACTIVITIES

Funded:

“Research Initiation: Mapping Identity Development in Doctoral Engineering Students,” NSF, Award # 2205033, UGI – EGLKRQ5JBCZ7, \$198,413, (J. Cross, M. Beruvides, & K. Cargile-Cook). [August 1, 2022 – July 31, 2024]

In Preparation:

“Research: Transition to Virtual Teams in Undergraduate Engineering Education: The Impact on Knowledge, Skills, Abilities, and Other Characteristics,” NSF – Research in the Formation of Engineers, PD19-1340, \$348,625 2020 (J. Cross, & M. Beruvides). [projected submission December 2022]

“Development and validation of a self-starting optimal CUSUM CC based on Sequential Normal Scores,” NSF – Methodology, Methods, and Statistics Program #19-575, \$493,606 2018 (M. Beruvides and J. Conover). [projected submission - Fall 2022]

Completed

“Systems Engineering Research Center (SERC) University – DoD Umbrella Agreement,” Department of Defense, \$2,000,000 January 2009 to December, 2018 (with Associated Research Center Universities)

“Organizational Health System Dynamics Model” CNS Pantex / Department of Defense, \$128,066, June 2016 (M. Beruvides, and J. Cantu)

“Systems Dynamic and Economic Model” B&W Pantex / Department of Defense, \$132,278, January 2015 (M. Beruvides, and M. Smith)

“Problem Solving Using Six-Sigma Methodology,” ITESM-CEMEX Collaborative Research, CEMEX Corporation, \$550,000, December, 2013 (M.C. Temblador, A.C. López, G.C. Rodríguez, & M.G. Beruvides)

“High Reliability Operations Research Project: Systems Dynamic and Economic Analysis Models for B&W Pantex Plant High Explosives Operations” Department of Defense, \$109,441, October 2011 (M. Beruvides and J. Simonton)

“Dual/Concurrent Enrollment Research Project– Phase 2,” Texas State Technical College, \$9,974 January 2010.

“Quantifying the Purchasing power of Public Transportation in Texas,” TxDOT - Texas Department of Transportation #RMC2-06194, \$120,308, September 2008 (with TTI/TAMU, UTB, and James Simonton)

“Dual/Concurrent Enrollment Research Project – Phase 1,” Texas State Technical College, \$9,974 July 2009.

“Utilizing Agricultural Biomass in Energy Production and Economic Development,” State Energy Conservation Office (SECO), \$136,000, October 2007 (with Clifford Fedler, James Simonton and Conrad Lyford)

“Evaluation of Nep Formation from Mechanical Processing of Cotton,”TDA – Texas Food and Fiber Research #FF-d-07-02, \$30,000, September 2007 (with Mourad Krifa and Eric Hequet)

“Public Transportation Maintenance Knowledge and Resource Sharing Project,” TxDOT – Texas Department of Transportation – Inter-Agency Contract, \$395,000, March 2007 (with James Simonton and Phil Nash)

“Development of a Trans- Disciplinary Journal on the Scholarship of Teaching and Learning,” Faculty Incentive Grant – Teaching, Learning, and Technology Center, Texas Tech University, \$10,000, September 2006 (with Bob McDonald).

- “Utilization of Ginned Fiber for the Examination of White Speck Content in Texas Cotton – Phase II,” USDA-CSREES / International Cotton Research Center, \$56,980, September 2005 (with James Simonton).
- “Center for Logistics and Distribution: Human Interaction in Logistics Systems,” National Science Foundation, \$10,000, February 2005 (with Terry Collins, Milton Smith and Elliot Montes)
- “Utilization of Ginned Fiber for the Examination of White Speck Content in Texas Cotton – Phase I,” USDA-CSREES / International Cotton Research Center, \$53,421, September 2004 (with James Simonton).
- “Economic Feasibility of Manufacturing Fuel Pellets from Cotton By-Products,” USDA-SBIR Program, \$75,000, May 2003 (with Greg Holt and James Simonton).
- “Development of Test Methodology for Systematic Exploration of Immature Fiber Content in Texas Cotton,” Texas Higher Education Coordinating Board – Advanced Research Program, \$142,500, January 2002 (with James Simonton).
- “Cost of Quality – Post Doc Research,” Texas Tech University, College of Engineering, \$13,500, December, 2002.
- “Analysis of Group Decision Support Systems and Consensus Building for Electronic Commerce,” Texas Higher Education Coordinating Board – Advanced Technology Program, \$109,000, January 2000 (with Dean Fontenot).
- “A Systems Theory Approach to Technology Transfer in the Management of Technology in Developing Nations,” Egyptian Cultural and Educational Bureau, \$20,000, December, 1999.
- “The Value of Pipelines to the Transportation System of Texas,” Texas Department of Transportation (TxDOT), \$150,000, September 1999 (with Ted Weisner and the Texas Transportation Institute).
- “A Research Program to Increase Pipeline Safety via Engineering and Systems Management,” Koch Industries, \$50,000, November 1998 (with Bill Marcy and Ted Weisner).
- “Management Systems Engineering and Advanced Technology Program,” CFAR Grant, \$3,000, September 1998 (with Milton Smith and Surya Liman).
- “Development of an Internet-Based Engineering Professionalism Course for the Industrial Engineering Undergraduate Curriculum,” TTU Faculty Incentive Grant, \$5,000, April 1998.
- “Manufacturing Engineering Lab Development Grant,” Society of Manufacturing Engineers Education Foundation, \$6,250, July 1998 (with Hong-Chao Zhang).
- “Education Development Grant,” Society of Manufacturing Engineers Education Foundation, \$69,740, July 1997 (with Hong-Chao Zhang).
- “Manufacturing Curriculum and Capital Equipment Development Grant,” Society of Manufacturing Engineers Education Foundation, \$405,690, July 1996 (with Hong-Chao Zhang).
- “Automated Manufacturing System Life Cycle Economics,” CFAR, \$8,000 August 1996 (with Surya Liman, Milton Smith, and Hong-Chao Zhang).
- “Analysis and Cost Reduction Strategies for General Electric Appliance’s Model AP1 Washer-96,” General Electric Corporation, \$30,044, January 1996 (with Hong-Chao Zhang).
- “Capital Equipment and IE Curriculum Development Grant,” Society of Manufacturing Engineers, \$52,245, May 1995 (with Hong-Chao Zhang and Jose Macedo).

“Analysis of Learning Curves for White-Collar/Knowledge Workers,” Texas Tech University, College of Engineering, \$12,000, October, 1994.

“Ergonomics and Methods Engineering Laboratory Development,” NSF-AMP Student Research Project, \$7,000, May, 1994.

“Upgrade and Development of the Ergonomics and Methods Engineering Laboratory,” Engineering Equipment Grant/UT System, \$27,000, December, 1993.

“Redesign of a Methods Engineering Course,” Teaching Effectiveness Grant/UTEP, \$5,050, November, 1993.

PUBLICATIONS

Papers in Open Literature

Refereed Publications

Submitted – Under review

“Business Cycle Turning Points: Addressing Concerns about Single Path Analysis in Data Driven Approaches,” Submitted to Applied Economics Journal, Manuscript ID: APE-2021-1345, 14p., (D. Enck, MG Beruvides, VG Tercero-Gomez, AE Cordero-Franco).

“Comparative study of the impacts of U.S. electric deregulation on renewable energy investments in Florida, Massachusetts, and Texas, submitted to *Renewable Energy Journal*, 2021, 20 pp. (P. Jang and M.G. Beruvides).

“A System Dynamics-based Analysis of the Introduction of Six Sigma Projects into a Manufacturing Facility as a Pathway to Attain Lean Six Sigma 4.0,” submitted to *the International Journal of interactive Design and Manufacturing*, 2021, 29pp. (A. Elizondo-Noriega, M.G. Beruvides, , D. Guemes, V. Tercero, N. Tiruvengadam).

“Decisions in the Desert: Reflections of the System of Profound Knowledge within *Seven Pillars of Wisdom*,” submitted to the *Engineering Management Journal*, 2021, 18p., (K. Smith M.G. Beruvides).

Manuscripts in preparation

“Isomorphism between Groundwater Management and Monetary Systems,” in preparation for *Water Journal*, 2022, 18p., (G.W. Bates, M.G. Beruvides, and C. Fedler).

“Confirmatory Research of Minsky’s Financial Instability Hypothesis For the 1945-2017 Era,” in preparation for *Journal of Economic Issues*, 2022, 25p. (L. Phan and M.G. Beruvides).

“Does Bias Impact Situation Awareness?,” in preparation for *Military Psychology Journal* 2022, 18p., (M. Short, M.G. Beruvides, and M. Endsley).

“A study of a technology valuation model for the measurement of user technology perceptions,” in preparation for *MIS Quarterly*, 2021, 51p. (S. Pierre-Louis and M.G. Beruvides).

“Systemic Archetype for High Reliability Organizations,” in preparation for *Safety Science Journal*, 2021, 14p. (R.T. McClary and M.G. Beruvides).

“Case Study on Evaluating the Shift of US Regional Cotton Basis Curves” in preparation for *Economic Annals Journal*, 2021, 13p. (J. Cantu and M.G. Beruvides).

“Cluster Analysis Approach to Identifying Maintenance Infant Mortalities and Quantifying the Corresponding Costs: An Analytical and Empirical Study” in preparation for *Engineering Economist Journal*. 2021, 23p. (R.E. Peimbert, J. Limon and M.G. Beruvides).

- “Cost of Safety vs. Cost of Accidents: An Economic Analysis,” in preparation for *Journal of Contingencies and Crisis Management*, 2021, 40p. (M. Bromley, M.G. Beruvides, J. Cantu, & K. McElwain).
- “A Self-Starting CUSUM and a Maximum Likelihood Estimator of the Change Point for Individual Observations with Trend,” in preparation for *Journal of Statistical Computation and Simulation*, 2021, 28p. (L. Guadalupe, V. Tercero, E. Cordero, and M.G. Beruvides).
- “An Economic Analysis Model for the High Reliability Organization: A Case Study,” in preparation for *Reliability Engineering and System Safety Journal*, 2021, 25p. (M. Bromley, M.G. Beruvides, and J. Cantu).
- “Questioning the Basis Curves for Cotton: Analysis of Effects in the Shift of Cotton Textile Production” in preparation for *Agricultural Economics Journal* 2021, 25p. (J. Cantu and M.G. Beruvides).
- “Combining systems dynamic and economic analysis models into a single decision support system tool,” in preparation for *Reliability Engineering Management and Safety Systems Journal* 2021, 17p. (J. Cantu, M.G. Beruvides, K. McElwain, M. Bromley, J. Tolk, and P. Patterson).
- “Monitoring Trended Observations with a Self-Starting CUSUM and a Maximum Likelihood Estimation of the Change Point” in preparation for *Quality Engineering Journal* 2021, 23p. (L. Guadalupe, V. Tercero, E. Cordero and M.G. Beruvides).
- “Identifying Economic Behaviour Shifts in the Tragedy of the Commons Through Statistical Monitoring and Change-Point Estimation” in preparation for *Journal of Economic Behaviour and Organization*. 2021, 24p. (L. Guadalupe, M.G. Beruvides, V. Tercero, and E. Cordero).
- “The Economic of Cost of Quality for Green Manufacturing: a Life Cycle Assessment Approach” in preparation for *International Journal of Life Cycle Assessment*, 2021, 8p. (C.C. Chiu-Wei and M.G. Beruvides).
- “Control Chart for the Monitoring of Quadratic Behavior with Non-constant Standard Deviation” in preparation for *International Journal of Production Research*. 2021, 33p. (J. Ramirez, M.C. Temblador and M.G. Beruvides).

Published

- “In Situ Technological Innovation Diffusion Rate Accuracy Assessment,” *Systems*, 10, 25.
<https://doi.org/10.3390/systems10020025> <https://www.mdpi.com/journal/systems>, 2022, 22p. (AJ Parvin, MG Beruvides, VG Tercero-Gomez.).
- “Inaccuracy of the energy-matching calibration technique for hailpads,” *Journal of Wind Engineering, & Industrial Aerodynamics*, <https://doi.org/10.1016/j.rineng.2021.100277>, 2021, 20p. (Christian Dieling, Milton L. Smith, and Mario Beruvides).
- “Inaccuracy of the energy-matching calibration technique for hailpads,” *Results in Engineering*, 10 (12), 500,
<https://doi.org/10.1016/j.rineng.2021.100277>, v. 12, Dec., 2021, 3p. (C. Dieling, M. Smith, and M.G. Beruvides).
- “What Emergency Responders Can Learn from the Business World,” *Harvard Business Review*,
<https://hbr.org/2021/07/what-emergency-responders-can-learn-from-the-business-world>, 2021, July, 7p. (A. Jackman and M.G. Beruvides).
- “Optimizing the Abandonment of a Technological Innovation” *Systems Journal*, 9, 27,
<https://doi.org/10.3390/systems9020027>, 2021, 20 p. (A. Parvin and M.G. Beruvides).
- “Using Statistical Process Monitoring to Identify US Business Cycle Change Points and Turning Points” *Applied Economics*, v. 53, no. 46, Aug., 2021, pp. 5319-5336. (D. Enck, M.G. Beruvides, Victor Tercero, & Eduardo Cordero).

- “Macro Patterns and Trends of U.S. Consumer Technological Innovation Diffusion Rates” *Systems Journal*, 9, 16, <https://doi.org/10.3390/systems9010016>, 2021, 26 p. (A. Parvin and M.G. Beruvides).
- “Hail Impact Testing: Velocity Effects of Distance to Target Specimen,” *Journal of Wind Engineering, & Industrial Aerodynamics*, <https://doi.org/10.1016/j.jweia.2021.104554>, 211, 104554, 2021, 7p. (Christian Dieling, Milton L. Smith, Stephen Peterson, Matthew Phelps, H. Scott Norville, and Mario Beruvides).
- “Quantifying Risk Perception: The Entropy Decision Risk Model Utility (EDRM-U) *Systems*, 8(4), 51; <https://doi.org/10.3390/systems8040051>, December 3, 2020, 37 p. (T. Monroe, M.G. Beruvides, & V. Tercero).
- “Derivation and Application of the Subjective–Objective Probability Relationship from Entropy: The Entropy Decision Risk Model (EDRM)” *Systems*, <https://doi.org/10.3390/systems8040046> vol. 8, no. 4; November 20, 2020, 34 p. (T. Monroe, M.G. Beruvides, & V. Tercero).
- “Review of impact factors of the velocity of large hailstones for laboratory testing consideration,” *Geosciences Journal*, 10 (12), 500, <https://doi.org/10.3390/geosciences10120500> Dec. 15, 2020, 15 pp. (C. Dieling, M. Smith, and M.G. Beruvides).
- “A study of the Attributes of the Productivity-Liquidity Relationship at the Firm Level” *Engineering Management Journal*, <https://doi.org/10.1080/10429247.2020.1798165>, August 3, 2020, 45 p. (N. Tiruvengadam, M.G. Beruvides, & A. Elizondo-Noriega).
- “Application of IRT Models to Selection of Bidding Paths in Financial Transmission Rights Auction: U.S. New England” *Energies Journal*, <https://doi.org/10.3390/en13133325>, June 30, 2020, 14 pp. (Jang, P., K. Jung, and M.G. Beruvides).
- “Comparison of Total Factor Productivity and Total Productivity for their Relationship Attributes with Profit” *Engineering Management Journal*, <https://doi.org/10.1080/10429247.2020.1772949>, July, 22 2020, 45 p. (N. Tiruvengadam, M.G. Beruvides, & A. Elizondo-Noriega).
- “The Heuristic-Based Framework for Attitude Certainty: How Technology and the Attention Economy are Systematically Eroding Systematic Thinking,” *Psychologist Manager Journal*, <https://doi.org/10.1037/mgr0000107>, vol. 23, no. 2020, 76-94 (P. Brown and M.G. Beruvides).
- “Estimation of Remaining Useful Life Based on Detection of Explosive Changes: An Analysis of Bearing Vibration” *International Journal of Prognostics and Health Management*, ISSN2153-2648, September 30, 2020 28p. (D. Barraza-Barraza, V. Tercero, E. Cordero, and M.G. Beruvides)
- “Time-Varying Influences of Oil-Producing Countries on Global Oil Price,” *Energies Journal*, 13, 1404, March 17, 2020, 23 pp. (I Jang, P. and M.G. Beruvides).
- “Comparing Pre-Disaster Mitigation Grant Spending with Resulting Post-Disaster Assistance Spending: Are Mitigation Investments Saving Federal Dollars?” *Journal of Emergency Management*, vol. 18, no. 1, January/February, 2020, 6 p. (K. Renken, A. Jackman and M.G. Beruvides).
- “Quantifying the Relationship between Pre-disaster Mitigation Spending and Major Disaster Declarations for US States and Territories” *Journal of Emergency Management*, vol. 17, no. 4, August, 2019, 13 p. (K. Renken, A. Jackman and M.G. Beruvides).
- “A Non-parametric Economic Index to Measure the Collective Effort of National Level Economic Activities Directed Towards Greater Efficiency,” *Cogent Economics and Finance Journal*, Nov. 22, 2019, 7: 1695997, <https://doi.org/10.1080/23322039.2019.1695997>, 27p. (A. Elizondo-Noriega, I. Ponce, S. Aviles-Sacoto, D. Guemes, V. Tercero, N. Tiruvengadam, and M.G. Beruvides).

- “System Dynamics Approach to Groundwater Storage Modeling for Basin-Scale Planning” *Water Journal*, 2019, vol. 11, issue 9, doi:10.3390/w11091907, 17 p. (G.W. Bates, M.G. Beruvides, and C.B. Fedler).
- “From Mosaic to Systemic Redux: The Conceptual Foundation of Resilience and Its Operational Implications for Water Resource Management” *Systems Journal*, 2019, 7, 32; doi:10.3390/systems7030032, 21p. (R. Burgess, K. Horbatuck, and M.G. Beruvides).
- “An Evaluation of Change-Point Estimators for a Sequence of Normal Observations with Unknown Parameters,” *Communications in Statistics - Simulation and Computation Journal*, 2017,, vol. 0, no. 0 1-21. (J. Garza-Venegas, V. Tercero, E. Cordero and M.G. Beruvides). [Published electronically – awaiting hard copy publication volume, number, and page sequence].
- “An adaptive ARX model to estimate the RUL of aluminum plates based on its crack growth,” *Mechanica. Systems and Signal Processing*, 2017, vol. 82C, pp. 519-536. (Barraza, D., V. Tercero, MG Beruvides, and J. Limon).
- “Regressing Sample Quantiles to Perform Nonparametric Capability Analysis,” *International Journal of Advanced Manufacturing Technology*, January 09, 2016, 11p. (M.I. Salazar, M.C. Temblador, W.J. Conover, V.G. Tercero, A.E. Cordero and M.G. Beruvides)
- “Cost of Quality Modelling for Maintenance Employing Opportunity and Infant Mortality Costs: A Case Study in an Electric Utility,” *The Engineering Economist*. vol. 61, no. 2, pp. 112-127, DOI:10.1080/0013791X.2016.1152619, 2016. (R.E. Peimbert, J. Limon and M.G. Beruvides).
- “The Disaster Mitigation Act of 2000: Implications for the Practice of Risk Reduction in American Local Government,” *UN Office for Disaster Risk Reduction (UNISDR) - A 2015 Report on the Patterns of Disaster Risk Reduction Actions at Local Level*, 10p., 2016. (A. Jackman, G. Nestler and M.G. Beruvides).
- “High Reliability Organization Research: A Literature Review for Healthcare,” *Engineering Management Journal*, vol. 27, no. 4, pp. 218-227, 2015. (J. Tolk, J. Cantu and M.G. Beruvides).
- An Analysis of Cooperative Purchasing Programs in Transportation Organizations,” *World Review of Intermodal Transportation Research Journal*, vol 5, no. 3, pp. 240-262, 2015. (MG Beruvides, J.L. Simonton, N. Waters, H. Palikhe, and S. Chaivichitmalakul)
- “Multiple Internal Rate of Return Revisited: Frequency of Occurrences” *The Engineering Economist*. 2015, vol. 60, no.1 pp. 75-87. (E.H. Ng and M.G. Beruvides).
- “The Development of a Decision Tool for Cost Justification of Software Usability” *International Journal of Information and Business Management*, 2014, vol. 28, no. 1, pp. 45-73. (B. Aydin and M.G. Beruvides).
- “The Variational Effects of Jurisdictional Attributes on Hazard Mitigation Planning Cost” *Journal of Emergency Management*, 2014, vol. 12, no. 5, Sept/Oct. pp. 1-8. (A. Jackman and M.G. Beruvides).
- “The Disaster Mitigation Act of 2000: Implications for the Practice of Risk Reduction in American Local Government ” *United Nations Office for Disaster Risk Reduction – A 2015 Report Pattern of Disaster Risk Reduction Actions at Local Levels*, 2014, 11pp. (A. Jackman and M.G. Beruvides).
- “How Much do Hazard Mitigation Plans Cost?: An Analysis of Federal Grant Data” *Journal of Emergency Management*, July/August 2013, vol 11, no 4, pp. 271-279. (A. Jackman and M.G. Beruvides).
- “Technology Imprints: A Systems approach to the effects of the Imprint Index on Technology Frequency of Use,” *Cognitive Technology Journal*. 2013, vol. 18, issue 2 30p. (H. Besheer, M.G. Beruvides, H. Palikhe).
- “Local Hazard Mitigation Plans: A Preliminary Estimation of State-Level Completion From 2004 to 2009” *Journal of Emergency Management*, 2013, vol. 11, no. 2, pp. 121-132. (A. Jackman and M.G. Beruvides).

- “Nonparametric Estimator for the Time of a Step Change in the Trend of Random Walk Models with Drift” *Quality and Reliability Engineering International Journal*, On-line. 2012, 8p. (V. Tercero, M.C. Temblador M.G. Beruvides and A. Hernandez).
- “Public Transportation Vehicle Maintenance and Regional Maintenance Center: An Analysis for Existing Literature.” *Engineering Management Journal*, September, 2012, vol. 24, no. 3, pp. 43-51. (Ean-Harn Ng, Mario G. Beruvides, James L. Simonton, Cheng-Chu Chiu-Wei, Rodrigo E. Peimbert-Garcia, Charles F. Winder, Leonidas J. Guadalupe).
- “A Case Study of the Costs of Quality: Water Utilities” *Engineering Management Journal*, June, 2012, vol. 24, no.2, pp. 3-14. (M. Banasik and M.G. Beruvides).
- “A Cost of Quality Economic Analysis of a Six Sigma Program at a Government Contractor” *Engineering Management Journal*, June, 2012, vol. 24, no.2, pp. 23-32. (W. Rodin and M.G. Beruvides).
- “An Empirical Study of Large-Sized Companies with Knowledge Work Teams and Their Impacts on Project Team Performance” in press *Engineering Management Journal*, June, 2012, vol. 24, no.2, pp. 54-62. (N. Waters and M.G. Beruvides).
- “Modified Tukey’s Control Chart” *Communications in Statistics Journal*. 2012, Vol. 41, pp. 1566-1579. (V. Tercero, J. Ramirez, E. Cordero, M. Smith and M.G. Beruvides).
- “Integrating Six Sigma Tools using Team Learning Process,” *International Journal of Lean Six Sigma*. 2012, Vol. 3 Iss: 2, pp.133 - 156. (C. Martínez, M.C. Temblador, M.G. Beruvides and J. Farris).
- “Manufacturing Vegetable Oil Based Biodiesel: An Engineering Management Perspective” *Engineering Management Journal*, September 2011, vol. 23, no. 3, 14p. (J.L. Simonton, T. Collins, G. Holt and M.G. Beruvides).
- “Improving the Quality of the Indoor Environment Utilizing Desiccant-Assisted Heating, Ventilating, and Air Conditioning Systems”. *Chemistry, Emission Control, Radioactive Pollution and Indoor Air Quality*, InTech Publishing Co., (ISBN 978-953-307-570-9) 2011, pp. 563-596. (M.D. Larrañaga, E. Karunasena, H.W. Holder, M.G. Beruvides, and D.C. Straus).
- “Performance Patterns in Face-to-Face and Complex Supported Groups” *Team Performance Management Journal*, vol. 17, no. 1/2, 2011, pp. 83 - 101. (P. Pazos and M.G. Beruvides).
- “An Empirical Study Analyzing Traditional Work Schemes versus Work Teams,” *Engineering Management Journal*, Dec., 2010, vol. 21, no. 4, pp. 44-57. (N. Waters and M.G. Beruvides).
- “Site Assessment Instrument for Regional Maintenance Center,” *Journal of Public Transportation*, vol. 13, no. 1, 2010, pp. 39 - 54. (M.G. Beruvides, J.L. Simonton, E.H. Ng, N.M. Waters, S. Chaivichitmalakul, P.Z. Altintas, C.C. Chiu-Wei, P.T. Nash, P. Monn).
- “The Continuing Education of Engineers and Engineering Managers,” *International Journal of Continuing Engineering Education and Life Long Learning*. vol. 19, no. 1, 2009, pp. 4-18. (M.G. Beruvides and E. Ng).
- “The Concept of a Regional Maintenance Center,” *Journal of Public Transportation*, vol. 12, no. 3, 2009, pp. 105-118. (M.G. Beruvides, J.L. Simonton, N.M. Waters, E.H. Ng, S. Chaivichitmalakul, C.C. Chiu-Wei, P.Z. Altintas, P.T. Nash, P. Monn).
- “Trans-disciplinary knowledge sharing of the scholarship of teaching and learning: A review of the current state of the art,” *Professional Studies Review*, vol. 4, no.1, 2008, pp. 12-26. (M.G. Beruvides, R. McDonald, K. St. Amant, E. Ng, and C.C. Chiu-Wei).

- “Economic Decision Modeling for the Consideration of Subjective, Non-Monetary Attributes in HVAC System Selection,” *ASHRAE Journal*, May 2008, pp. 34-40. (M.D. Larrañaga, M.G. Beruvides, H.W. Holder, and D.C. Straus).
- “Pilot Study to Examine The Relationship Between AFIS Fiber Properties And White Speck Occurrence,”reprinted publication of article an th *Journal of Cotton Science*, vol. 11, pp. 159 – 167, in *Fiber2Fashion*, <http://www.fibre2fashion.com/industry-article/8/784/pilot-study-to-examine1.asp>, 2008. (P. Altintas, J.L. Simonton, and M.G. Beruvides).
- “Multi-Scenario Pellet Fuel Manufacturing Operation Utilizing Cotton Waste,” *Journal of Cotton Science*, 2008, vol. 12, pp. 138-142. (G. Holt, J.L. Simonton, and M.G. Beruvides).
- “Pilot Study to Examine The Relationship Between AFIS Fiber Properties And White Speck Occurrence,” *Journal of Cotton Science*, 2007, vol. 11, pp. 159 - 167.. (P. Altintas, J.L. Simonton, and M.G. Beruvides).
- “Structured Group Decision Making in a Web-Based Environment by Using the Nominal Group Technique,” *Computers & Industrial Engineering*, 2007, vol. 52, no. 3, pp. 277-295. (P. Pazos, MG. Beruvides, J.Y. Jian, A.M. Canto, A.S. Sandoval, and R. Taraban).
- “A Study on the Quality-Productivity Relationship and its Verification in Manufacturing Industries,” *Engineering Economist*, 2007, vol. 52,, no. 2, pp. 117 - 140. (W.R. Lee M.G. Beruvides, and Y.F.D. Chiu).
- “Management Theory Déjà Vu? Scientific and Total Quality Management,” in *The Fordism of Ford and Modern Management* vol. I, pt. II, ch. 17, Huw Beynon and Theo Nichols eds., Edward Algar Publishers, 2006. (P.E. Rossler and M.G. Beruvides,).
- “Expert and Novice Operator Comparison with Scanner Based Image Analysis for White Spec Detection on Dyed Yarn,” *Journal of Cotton Science*, 2005, vol. 9, pp. 110 - 114. (J.L. Simonton, M.G. Beruvides, P. Altintas, and K. Kang).
- “The Impact of Human Interaction on Supply Chain Management Practices,” *Performance Improvement Journal*, vol. 44, no. 7, pp.26 – 33, August 2005. (T.C. Maku and T.C. Collins and M.G. Beruvides).
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- “System Dynamics Conceptual Model of Minsky’s Financial Instability Hypothesis,” *IISE Annual Conference*, Orlando, FL, 2018. (L. Phan and M.G. Beruvides).
- “Risk, Entropy, and Decision-Making Under Uncertainty,” *IISE Annual Conference*, Orlando, FL, 2018. (T. Monroe and M.G. Beruvides).
- “An Ecological Footprint Analysis for Industrial Applications,” *ASEM Annual Conference*, Huntsville, AL, 2017. (K. Bush and M.G. Beruvides).
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- “Expanding the definition of quality costs beyond the conformance and nonconformance dichotomy,” *PICMET Annual Conference Proceedings*, Portland OR, July 9-13, 2017. (A. Elizondo-Noriega, D. Güemes, and M.G. Beruvides).
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- “Remarks on estimating the remaining useful life of an asset in the presence of condition variable changes,” *ISERC Annual Conference Proceedings*, Pittsburg, PA, May 20-23, 2017. (D. Barraza, V. Tercero, E. Cordero, and M.G. Beruvides).
- “HILF Event System Dynamics Modeling of Protracted Electrical Outages,” *ISERC Annual Conference Proceedings*, Pittsburg, PA, May 20-23, 2017. (E. Easton, A. Jackman, and M.G. Beruvides).
- “An Economic Framework for Adaptive Wastewater Reuse for Future Crop Production Sustainability,” *ISERC Annual Conference Proceedings*, Pittsburg, PA, May 20-23, 2017. (J. Cantu, M.G. Beruvides, and C. Fedler).
- “Economic effects in emergency management during the last decade,” *ISERC Annual Conference Proceedings*, Pittsburg, PA, May 20-23, 2017. (K. Renken, M.G. Beruvides, and A. Jackman).
- “Regression Approach to Estimating Control Limits for Individuals,” *ISERC Annual Conference Proceedings*, Pittsburg, PA, May 20-23, 2017. (M. Salazar, V. Tercero, E. Cordero, and M.G. Beruvides).
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- “Educational Management: An Application of Research for Educational Outreach Programs,” *ASEE-GSW Section Annual Conference Proceedings*, Dallas, TX, March 12-14, 2017. (K. Smith, and M.G. Beruvides).
- “Innovation and the Cost of Quality: Analysis and Implications of Current Research,” *ASEM Annual Conference*, Charlotte, NC, 10p., Oct. 26-29, 2016. (A. Elizondo-Noriega, D. Güemes, and M.G. Beruvides).

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- “The Relationship Between Course Assignments and Academic Performance: An Analysis of Predictive Characteristics of Student Performance Texas Tech University,” *ASEE Annual Conference*, New Orleans, LA, June 26-29, 2016. (D. Pedraza and M.G. Beruvides).
- “Statistical Monitoring of Condition Degradation in Maintenance: A State-of-the-Art Review,” *ISERC Annual Conference*, Anaheim, CA, May 321-May 24, 2016. (D. Barraza, V. Tercero, J. Limon, and M.G. Beruvides).
- An identified opportunity to improve the construct of innovation in quality applications: A State-of-the-Art-Matrix (SAM) Study” *ISERC Annual Conference*, Anaheim, CA, May 321-May 24, 2016. (A. Elizondo-Noriega, D. Güemes, and M.G. Beruvides).
- “Can Saudi Arabia Survive the Loss of its Oil Exports?” *ISERC Annual Conference*, Anaheim, CA, May 321-May 24, 2016. (R. Alahmadi and M.G. Beruvides).
- “Total Productivity at breakeven: The dynamics between working capital ratio and profits” *ISERC Annual Conference*, Anaheim, CA, May 321-May 24, 2016. (N. Tiruvengadam and M.G. Beruvides).
- “Centering Excellence to Improve Quality and Throughput in Education: The HCC Experience,” *ASQ Quality Education Conference & Workshop*, Houston, TX, November 14-16, 2015. (L.J. Guadalupe, C. Maldonado, J. Cantu and M.G. Beruvides).
- “Financial and Groundwater Credit in Contractionary Environments: Implications for Sustainable Groundwater Management and the Groundwater Credit Crunch,” *ASEM Annual Conference*, Indianapolis, Indiana, Oct. 7-10, 2015. (G.W. Bates and M.G. Beruvides).
- “An Analysis of the Potential Isomorphic Elements Between Military Reconstruction Operations and Emergency Management Recovery Phase” *ASEM Annual Conference*, Indianapolis, Indiana, Oct. 7-10, 2015. (K. Renken, A. Jackman, and M.G. Beruvides).
- “Analysis of Critical Characteristics for Modeling the Economics of Blast Fragment Dispersion of Hazardous Materials” *ASEM Annual Conference*, Virginia Beach, VA, Oct. 15-18, 2015. (K. Renken, A. Jackman, and M.G. Beruvides).
- “The Development Process towards achieving a Framework for Incorporating Virtual Teams into Projects in Engineering Courses,” *ASEE Annual Conference*, Seattle, WA, June 14-17, 2015. (J. Gandhi, J. Cross, and M.G. Beruvides).
- “Integrated Systems Engineering and Economic Analysis Models For High Reliability Operations,” *ISERC Annual Conference*, Nashville, TN, May 30-June 2, 2015. (M. Bromley, K. McElwain, J. Cantu and M.G. Beruvides).
- “Maintenance Related Costs in Maintenance Management,” *ASEM Annual Conference*, Virginia Beach, VA, Oct. 15-18, , 2014. (D. Barraza, J. Limon-Robles, and M.G. Beruvides).

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- “Opportunities and Challenges in Condition-Based Maintenance Research,” *ISERC Annual Conference*, Montreal, Canada, May 31-June 3, , 2014. (D. Barraza, J. Limon, and M.G. Beruvides).
- “Development of a Decision Tool for Usability Cost Justification,” *ISERC Annual Conference*, Montreal, Canada, May 31-June 3, , 2014. (B. Aydin and M.G. Beruvides).
- “Isomorphological Analysis: The Theory of it all,” *ASEM Annual Conference*, Bloomington, MN, October 2-5, 2013. (M.G. Beruvides and J. Cantu).
- “Isomorphological Analysis: The Tough Knocks of Experience Found Through Practice,” *ASEM Annual Conference*, Bloomington, MN, October 2-5, 2013. (J. Cantu and M.G. Beruvides).
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- “Behavioral Economics: A State of the Art Matrix Analysis,” *ISERC Annual Conference*, Orlando, FL, May 19-23, 2012. (L. Guadalupe and M.G. Beruvides).
- “An Economic Framework for Total Productive Maintenance (TPM),” in *ISERC Annual Conference*, Orlando, FL, May 19-23, 2012. (R. Peimbert, J. Limon and M.G. Beruvides).
- “Monitoring Quadratic Behavior with Non-Constant Variability,” *ISERC Annual Conference*, Orlando, FL, May 19-23, 2012. (J. Ramirez, M.C. Temblador and M.G. Beruvides).
- “CMMI for Services and Transactional Six Sigma: A new Perspective,” *ISERC Annual Conference*, Orlando, FL, May 19-23, 2012. (M.C. Temblador , J. Ramirez and M.G. Beruvides).
- “Comprehensive Systems Modeling Approach To High Reliability Organizations,” *ASEM Annual Conference*, Virginia Beach, VA, October 17-20, 2012. (M.G. Beruvides, J. Cantu, J. Simonton, J. Tolk, M. Bromely, and K. McElwain).

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- “State of the Art Matrix Analysis of the Cost of Quality Evaluation in Service Industries,” *ASEM Annual Conference*, Lubbock, TX, October 19-22, 2011. (H. Palikhe and M.G. Beruvides).
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- “Simbiosis of Leadership Styles,” *41 congreso de Investigación y Desarrollo Annual Conference*, Monterrey, México, 2010. (M.C. Temblador, and M.G. Beruvides).
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- “Change Point Analysis for Slope Variability,” *ASEM Annual Conference*, Rogers, AR., October 13-16, 2010. (V.M. Tercero, M.C. Temblador, A. Hernández, and M.G. Beruvides).
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- “A Systems Dynamic Approach to Modeling Complex Economic Problems,” *ASEM Annual Conference*, Rogers, AR., October 13-16, 2010. (M.C. Temblador, J. Calvo, and M.G. Beruvides).
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- “Clusterring Approach for Slope Change Detection in Trended Data,” *Industrial Engineering Research Conference*, Cancún, México, June 5-9, 2010. (V.M. Tercero, A. Hernández, M.C. Temblador and M.G. Beruvides).
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- “Systems Approach to Problem Solving using Six Sigma,” *ASEM Annual Conference*, Springfield, MO., 2009. (M.C. Temblador and M.G. Beruvides).

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- “The Approximation of Operational Quality Costs in Organizations,” *ASEM Annual Conference*, Springfield, MO., 2009. (C.C. Chiu-Wei, M.G. Beruvides, and J.L. Simonton).
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- “Mixed duopolies and the welfare to the society: A systems approach to the economics of duopolies,” *ASEM Annual Conference*, West Point, N.Y., 2008, (E. Cordero, M.G. Beruvides and V. Kalashnikov).
- “Challenges in Managing Emergency Planning in Local and Regional Government,” *ASEM Annual Conference*, West Point, N.Y., 2008, (A. Jackman and M.G. Beruvides).
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- “Effects of Aggressive Card Treatments,” *Beltwide Cotton Conferences*, National Cotton Council of America, San Antonio, 2006. (Barroso L.A., J.L. Simonton, and M.G. Beruvides).
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INVITED PAPERS, PRESENTATIONS AND SHORT COURSES

“Model for Verification of Minsky’s Financial Instability Hypothesis,” Texas Tech University, Industrial, Manufacturing, & Systems Engineering Department Graduate Seminar, Spring, 2022, Lubbock, TX.

“Technology Abandonment and the Time Value of Diffusion,” Texas Tech University, Industrial, Manufacturing, & Systems Engineering Department Graduate Seminar, October 12, 2020, Lubbock, TX.

“System Dynamics Conceptual Model of Minsky’s Financial Instability Hypothesis,” Texas Tech University, Industrial, Manufacturing, & Systems Engineering Department Graduate Seminar, October 9, 2019, Lubbock, TX.

“Systems Dynamics and its Role in Industrial & Engineering Management Research: A look at Minsky’s Financial Instability Hypothesis & Technology Diffusion Curves,” University of Texas – Arlington, Department of Industrial, Manufacturing, & Systems Engineering, Invited Lecture, April 24, 2019, Arlington, TX

“A Data-Driven Prognostic Method for Crude-Oil Pipeline Systems,” *Sixty-Sixth Annual Southwest Petroleum Conference Shortcourse*, Lubbock, TX, April 17-18, 2019. (Y. Liao, Y. Xiang, M.G. Beruvides, L. Heinze).

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“Engineering Ethics: The Concept of Commensurability and Incommensurability in the Realm of Ethics,” Invited Lecture, ENGR2392 – Nov. 17, 2015, Civil Engineering Dept, Texas Tech University, Lubbock, TX.

“Systems Dynamics Short Course Theory & Practice (with VENSIM Programming),” Short Course – Pantex Corporation, August 18-19, 2014, Lubbock, Texas.

- “Organizations as Technorganic Symbiotic Systems,” Invited lecture presented at – ITESM (Instituto Tecnológico de Monterrey), May 8, 2014: Monterrey, México.
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- “Management Theory Déjà Vu? Scientific and Total Quality Management,” in *The Fordism of Ford and Modern Management* vol. I, pt. II, ch. 17, Huw Beynon and Theo Nichols eds., Edward Elgar Publishers, 2006. (P.E. Rossler and M.G. Beruvides,). [Note- Since this is a refereed paper it is also listed above in the refereed publications section and is also a book chapter. This paper was selected amongst the best technical management papers of the last 25 years and published in this volume.]
- “La influencia de factores culturales en la teoría de decisiones,” *Instituto Cultural Hispano-Americano - University of Miami*, Invited lecture, Koubek Center, Miami, FL, July 14, 2006. (M.G. Beruvides).
- “The Engineer as Manager and Leader,” Center for Professional Development - College of Business, Texas Tech University, San Antonio, TX, August 22-23, 2002.
- “Metacognition, Problem Solving, and Decision Making: A Preliminary Study Using Computer-Based Puzzles,” *Texas Tech University, Department of Psychology Applied Cognitive Brown Bag Lecture Series*, Lubbock, Texas, May 3, 2002, (J.J. Jian, M.G. Beruvides, And R. Taraban).
- “The Engineer as Manager and Leader,” Center for Professional Development - College of Business, Texas Tech University, San Antonio, TX, September 6-7, 2001.

- “Contraste entre la Administración del Comportamiento de la Organización y la Administración de la Calidad Total,” *Congreso Internacional de Ingeniería Industrial*, Colima, México, 2000, (P.H. Mills and M.G. Beruvides).
- “Systems and Engineering Management and its Impact for Technical Management.” *TMAC – Texas Manufacturing Alliance Corporation*, Fast Track Seminar Series, Lubbock, TX.
- “The need for Technical Management,; *Eta Kappa Nu (EE) Honor Society*, Texas Tech University, Lubbock, TX.
- “Estudio Sobre la Medida de Productividad y Rendimiento de un Laboratorio Industrial,” *XV Congreso Internacional de Ingeniería Industrial*, Puebla, México, 1999, (M.G. Beruvides).
- “La Corrupción de un Sistema de Medición debido a una Influencia No-Intencional: Un Estudio Preliminar Macro-Ergonómico,” *IX Simposium, Semana Internacional de Ingeniería Industrial*, Chihuahua, México, 1999, (M.G. Beruvides).
- “Investigación: Un Enfoque de Administración de Proyecto,” *Four Day Short Course*, Ciudad Juárez, Mexico, April, 1997 (M.G. Beruvides).
- “A Project Management Approach to Research,” *Four Day Short Course*, Aguascalientes, Mexico, September 1996 (M.G. Beruvides).
- “Engineering in the Future,” *Society of Women Engineers Region C Conference*, El Paso, TX, March 1996 (M.G. Beruvides).
- “El Trabajo y el Ingeniero Industrial: Características e Evolución del Concepto de la Labor Industrial,” *SEP X Concurso Nacional de Creatividad*, Agujita, Mexico, 1995 (M.G. Beruvides).
- “Work and the Industrial Engineer: An Analysis of the Characteristics and Evolving Concepts of Industrial Work,” *First National Symposium on Industrial Engineering*, Zacatecas, Mexico, 1994 (M.G. Beruvides).

PROFESSIONAL ORGANIZATIONS

National Academy of Inventors
Institute of Industrial & Systems Engineers
American Society of Engineering Management
American Society of Engineering Educators
National Society of Professional Engineers
Texas Society of Professional Engineers
International Association for the Management of Technology
American Society of Quality Control
Tau Beta Pi
Alpha Pi Mu
Epsilon Mu Eta
Alpha Lambda Delta
Gamma Beta Pi

AWARD AND HONORS

Institute of Industrial & Systems Engineering, Engineering Economy Division Teaching Award winner, 2022,

Texas Tech University Outstanding Dissertation Award in the category of Mathematics, Physical Sciences and Engineering, 2022 – awarded to Christian Dieling. M.G. Beruvides & Milton Smith, Dissertation Chairpersons.

Chancellor’s Council Distinguished Teaching Award, Texas Tech University, 202-2021.

IISE Annual Conference – Systems Engineering and Design Best Paper Award, Orlando, FL, 2018. (L. Phan and M.G. Beruvides).

American Society for Engineering Management Best Dissertation Award for 2017 – awarded to Michael Bromley. M.G. Beruvides Dissertation Chairperson.

National Academy of Inventors – member, 2017 – present.

Gamma Beta Phi Honor Society – miembro, 2017 – present.

President’s Excellence in Teaching Award, Texas Tech University, 2016.

Golden Key International Honor Society – member, 2015 - presente

American Society for Engineering Education John L. Imhoff Global Excellence Award for Industrial Engineering Education for 2013.

Most Influential Faculty Award, Whitacre College of Engineering Honors Convocation, awarded Spring, 2012.

American Society for Engineering Management Best Dissertation Award for 2010 – awarded to Wayne Rodin. M.G. Beruvides Dissertation Chairperson.

Gamma Beta Phi – National Honor Society – member, 2010

American Society for Engineering Management Best Dissertation Award for 2009 – awarded to Marcus Banasic. M.G. Beruvides Dissertation Chairperson.

Magna Cum Laude – The National Scholars Honor Society – Life time member, 2008 - present.

Fellow of the American Society for Engineering Management, 2007 – present.

Epsilon Mu Eta – Engineering Management Honor Society Member, 2007 – present.

Tau Beta Pi Outstanding Professor Award, Texas Tech University, 2006.

Texas Tech University Teaching Academy, 2004 – present.

Charles L. Burford Faculty Teaching Award, Texas Tech University, 2000-2001

Ex-Student Association New Faculty Award, Texas Tech University, 1998.

Halliburton Award for Teaching Excellence in the College of Engineering, Texas Tech University, 1996.

Finalist, Merritt A. Williamson Best Paper Award, ASEM Annual Conference, October, 1996.

Outstanding Industrial Engineering Professor Award, University of Texas at El Paso, 1994.

Merritt A. Williamson Best Paper Award, ASEM Annual Conference, October, 1993.

GRADUATE STUDENT COMMITTEES CHAIRED (THESES AND DISSERTATIONS)

Dissertations

Completed

- "Macro Examination of Technological Innovation Diffusion Rates and Abandonment Assessment," Albert Parvin, December, 2021.
- "On the Conditional In-Control Performance and Control Limits of Certain Nonparametric Control Charts for Location with Unknown Mean or Median," Elena Cristina Villanueva – Instituto Tecnológico de Estudios Superiores de Monterrey, Mexico, July, 2021.
- " Decision Engineering: Deriving and Applying an Entropy Model for Quantifying Risk Perception," Thomas Monroe, May, 2021.
- "Techniques for Calibration of Hailpad Material," Christian Dieling, (Co-Chair with Dr. Milton Smith), May, 2021.
- "On the Conditional In-Control Performance and Control Limits of Certain Nonparametric Control Charts for Location with Unknown Mean or Median," Elena Cristina Villanueva – Instituto Tecnológico de Estudios Superiores de Monterrey, Mexico, May, 2021.
- "Beyond the appraisal-based framework for attitude certainty: Cognitive attitude substitution within the context of the attention economy," Peter Brown, December, 2020.
- "Comparative Study of the Impacts of U.S. Electric Deregulation on Renewable Energy Investments and Retail Electricity Prices in Florida, Massachusetts, and Texas," Peter Y. Jang, ,August, 2020.
- "The Quantification of HILF Event Electric Power Delivery Resiliency," Eric Easton, ,May, 2019.
- "Bias and its Effect on Situation Awareness," Maureen Short, December, 2018.
- "Verification of the Impact of the Adaptation of Total Productivity Management to Financial Data for Organizational Productivity Evaluation," Naveen Tiruvengadam, December, 2018.
- "A Dynamic Cost of Quality Study of Innovation in an Industrial Environment," Armando Elizondo-Noriega, December, 2018.
- " Systemic Archetype for High Reliability Organizations," Robert Tyler McCleary, December, 2018..
- "Confirmatory Research of Minsky’s Financial Instability Hypothesis for the 1945-2017 Era," Lynn Phan, December, 2018.
- "Factors influencing the adoption of inter-organizational information systems in the U.S. Residential Construction Industry," Felix Vazquez, May, 2018
- "The relationship between course assessment and academic performance: An analysis of predictive characteristics of student performance," Deborah Pedraza, May, 2018
- "Technology Evaluation Model in the Health Care Industry," Samuel Pierre-Louis, May, 2018
- "Would Renewable Energy be a Good Option for an Oil Rich Country: The Case of Saudi Arabia," Ramzi Alahmadi, August, 2017

- "A Systems Analysis of Sustainable Groundwater Management in California: Homology and Isomorphology with Monetary Policy," Guy Bates, May, 2017
- "Indexing Approximations and Optimizations in Search Systems," Guillermo Rodríguez, May, 2017
- "Economic effects of mitigation spending in emergency management in the United States of America from 2004 to 2014," Katharina Renkin, Candidate, December, 2016
- "Economic Justification of High Reliability Organizations," Michael Bromley, August, 2016.
- "A Nonparametric Capability Analysis Incorporating Quartile Sampling in Manufacturing Processes," María Isabel Salazar, May 2016
- "Estimation of an asset's Remaining Useful Life considering its operating conditions and its individual degradation proces," Diana Barraza, December, 2015
- "Behavioral Economics and Statistical Process Control," Guadalupe Leonidas, December, 2014.
- "Development of a Decision Tool for Cost Justification of Usability," Burchan Aydin, August 2014.
- "A Systems Model of Similarities Between Cotton & Lumber Futures: An Economic Isomorphological Comparison," Jaime Cantu, 2013.
- "A Study of the Cost of Quality in Electric Utility Companies," Himlona Palihke, 2013.
- "Cost of Quality Modeling for Maintenance," Rodrigo Peimbert, 2012.
- "Control Chart for Complex Systems with Trended Mean and Non-Constant Variance," José Guillermo Ramírez Galíndez, 2012.
- "Non-Parametric Change-Point Estimation for Observations Following a Random Walk with Drift," Victor Tercero, 2011.
- "Taguchi Method and Principle Component Analysis Application for Yarn White Speck Quality Defect," Pelin Altintas, 2010.
- "Mixed Duopoly: Analysis of Oligopoly Models Considering Social Welfare," Alvaro Eduardo Cordero Franco, 2010.
- "In Search of Rate of Return: The Case of External and Internal Interim Investment in Solving Multiple Rates of Return," Ean Ng, 2010.
- "Economics of Cost of Quality for Green Manufacturing Life Cycle Assessment Approach," Cheng-Chu Chiu-Wei, 2010.
- "A Systems Process Behavioral Chart for Monitoring Systems with Non-Zero Slope and Non-Normal Data," Maria del Carmen Temblador, 2010.
- "An Empirical Study on Knowledge -Work Schemas and their Impacts on Peak Performance," Natalie Waters, 2010.
- "A Cost of Quality Economic Analysis on the Value of Six Sigma Quality Programs in Government Organizations," Wayne Rodin, 2009.
- "A Study of the Cost of Quality in a Renewable Natural Resource Environment," Marcus Banasik, 2009.

- “On the Application of Non-Zero Sloping Analysis to Complex Systems: A Case Study Involving Mutual Funds,” Daniel McGrath, 2009.
- "Influence of Intellectual Capital Intermediaries on Technical Workforce Capacity," Cesar Maldonado, 2008.
- "A Systems Approach Analysis of Disaster Hazard Mitigation Management," Andrea Gamret, 2008.
- “Detecting Assignable Cause of Growth: The Case for Non-Zero Slope Causal Variation Measurement,” Ana María Canto, 2007.
- “Modeling Agricultural Recycling Systems for Systems Size and Economic Potential,” Jeffrey Leland Hanson, December 2007.
- “Analysis of High Rate Fluctuation Systems Using Statistical Process Control Methods, Non-Zero Slope Development Systems Theory and the Stock Market,” Luis Barroso, 2007.
- “The Technology Imprint and its Effects on Technology Frequency of Use: The Case for Technology Imprints,” Hisham Besheer, December 2006.
- “The Influence of Organizational Culture on Situation Awareness and Decision Making in Military Peace Keeping Tasks,” Angela Sandoval, 2005
- “Factors Affecting Group Decision-Making Process in Group Decision Support Systems Environments,” Pilar Pazos-Lago, 2005.
- "The Integrated Economic Production Quantity Model for Inventory and Quality," Tharat Ittharat, [co-chair with Elliot Montes], 2004.
- “A Methodology for Quality Assurance of White Spec Counts in Dyed Yarn Using Optical Scanning Environment,” James Simonton, 2004
- “The Capability of a Solid Desiccant Unit to Remove Selected Indoor Quality-Related Organisms from the Air,” Michael David Larrañaga, 2004.
- “A Theoretical Development and Analysis of Mental Learning Curves,” Jiun-Yin Jian, 2004.
- “A Technology Transfer Model for Engineering Industries: Egypt, A Case Study,” Mohamed Hassan – Helwan University, 2003.
- “A Study of the Economics of System Quality in a Technology Management Environment,” Yu-Fang David Chiu, 2002.
- “A Study of the Profit-Based Quality-Productivity Relationship Model and its Verification in Manufacturing Industries,” Wen-Ruey Lee, 1997.
- In-processs***
- “New Approach to Modeling US GDP and Detecting Changes in the Structural Relationship between US GDP and Leading Indicators,” David Enck, Candidate.
- "An Ecological Footprint Analysis and its Associated Opportunity Value for Industrial Applications," Kimberly Bush, current.
- "A Study for the Cost of Quality for Municipal Infrastructure," Jose Martinez, current.

- "A System Dynamic Modeling of High Reliability Organizations," Kurt McElwain, current.
- "How System Structure Influences System Actors: An Analysis of Risk Associated Behaviors Exhibited in Internet and Real World Competitive Poker Tournaments," Justin Yandell, current.
- "A Systems Dynamic Analysis of Water Resource Constraints: A Tragedy of the Commons Archetype Scenario of Water Issues," Richard Burgess, current
- "Naturalistic Decision Analysis in STEM Retention Issues in Higher Education," Kimberlee Smith, current.
- "Analysis of the Value of Quality on Major Industrial Projects: Total Installed Cost vs Pre-Project Estimated Cost," Brent Robertson, current.
- "The Economics of Water: A Systemic Evaluation and Valuation," Jonathan Elder, current.
- "The Future of Groundwater: A Systems Analysis of Transboundary Groundwater Conflict," Joseph Munn, current.
- "Water Infrastructure Sustainment via Optimization: A Systems Approach," Keith Horbatuck, current.
- "The Economics of Knowledge: A Behavioral Economic Perspective," Katharine Jenkins, current.
- "Performance Economics: An Evaluation of the Management of Technical Labor," Alexander Wendler, current.
- "An Investigation into the Identity Formation of Undergraduate Engineering Students in European Universities: The Impact on Knowledge, Skills, Abilities, and Other Characteristics," Annika Sprung, current.

Theses

Completed

- "Methodology for Detection and Quantification of the White Specks Phenomenon in Cotton Yarn," James Simonton, 2001
- "Long-Term Information Processing Capacity in Teams: The Case for Foundational Memory," Ana María Canto Esquivel, 2001.
- "Productivity Control and Analysis from the Statistical Method Viewpoint," Victor Perazzoli, 2000.
- "The Corruption of a Simple Measurement System Due to Unintentional Bias," Matthew R. James, 1998.
- "A Study of How to Mitigate the Reduction in Throughput due to Process Variability Caused by Labor Turnover in an Assembly Plant," Scott T. Hutchinson, 1995.
- "A Work Characteristic Analysis of Traditional vs. Self Directed Work Team Schemata," Natalie M. Water, 1995.
- "A Performance Measurement Case Study of Laboratory Chemist," Ahmad R. Kamali, December, 1994.
- "A Topological Case Study of the Cost of Quality in a Continuous Process Manufacturing Environment," Diego A. Sandoval-Chavez, December, 1994.
- "A Study of the Factors Influencing Productivity in a U.S. and Maquila Manufacturing Operation," Diane DeHoyos, 1994.
- "Middle Management Work in Non-Steady State Process vs. Steady State Process," Miguel G. Vargas-Cortes, December, 1994.

NON-TECHNICAL PUBLICATIONS

Books (in preparation)

J. Peregrino y Aguacate (book of poems), In communications with publisher Editorial Betania, Madrid, Spain, 2020 (M.G. Beruvides).

Books (published)

e-Mail Poems Poemas (book of poems – Spanish with English translation by Dr. James Hoggard and María O’Connell, Eñe Publications, Washington, DC, 2017, ISBN: 13: 978-1520814193 148p. (A. Avendaño and M.G. Beruvides).

e-Mail Poemas/ e-Mail Poems (book of poems – Spanish with English translation by Dr. James Hoggard and María O’Connell), <http://issuu.com/rompente/docs/emailpoemas>, ISSUU Digital Publications, Menlo Park, CA, 2010, 148p. (A. Avendaño and M.G. Beruvides).

Sin una canción desesperada (book of poems), Editorial Betania, Madrid, Spain, 1997 (M.G. Beruvides).

Cartas al tiempo (poetic prose), Editorial Betania, Madrid, Spain, 1993 (A.R. Núñez and M.G. Beruvides).

Noser (book of poems), Editorial Betania, Madrid, Spain, 1990 (M.G. Beruvides).

Papers and Other Literary Works

In Preparation

El Pan no Paga Impuestos, Book of poems & translation into english by María O’Connell, *Ohio State University – Wheeler Poetry Book Contest*, 2019 (M.G. Beruvides).

“Esclavo,” “Ley,” and “Plegaria,” three poems & translation into english by María O’Connell, *Bellingham Review*, 2019 (M.G. Beruvides).

“Un Canto Africano,” “A las Cinco de la Tarde,” and “Apuro,” three poems & translation into english by María O’Connell, *New Letters Literary Prize*, 2019 (M.G. Beruvides).

“Redondo,” short story & translation into english by María O’Connell, for *New Letters Literary Prize*, 2019 (M.G. Beruvides).

“Eva,” “Perot e Quiero,” and “La Sorpresa del Amor,” three poems & translation into english by María O’Connell, *Open to Interpretation*, 2019 (M.G. Beruvides).

“Esteban” poem & translation into english by María O’Connell, *Superstition Review*, 2019 (M.G. Beruvides). [Photo also submitted]

“Soldado” / Soldier,” poem & translation into english by María O’Connell, for *The Cossack Review*, 2019 (M.G. Beruvides).

Published

“Nicanor,” Short Story *Céfiro Journa: Enlace Hispanico Cultural y Literariol*, Texas Tech University, Lubbock, Texas, vol. 15, pp. 166-168, Fall, 2019 (M.G. Beruvides).

“La Voz de Mi Madre/My Mother’s Voice” poem & translation into english by María O’Connell, in *Open to Interpretation: Love + Lust*, Mutabilis Press, Houston, Texas, p. 22, 2014 (M.G. Beruvides).

“El Querer Querer/Loving to Love” poem & translation into english by María O’Connell, in *Open to Interpretation: Love + Lust*, Mutabilis Press, Houston, Texas, p. 12, 2014 (M.G. Beruvides).

“La Luz de la Memoria” poem & translation into english by María O’Connell, in *Open to Interpretation: Fading Light*, Mutabilis Press, Houston, Texas, p. 62, 2014 (M.G. Beruvides).

- “Mi Lapiz” poem & translation into english by María O’Connel, in *Open to Interpretation: Fading Light*, Mutabilis Press, Houston, Texas, p. 80, 2014 (M.G. Beruvides).
- “Más” / “More”,” poem & translation into english by María O’Connel, in *Harbinger Literary Journal*, Texas Tech University Press, Lubbock, TX, pp. 49-50, 2013. (M.G. Beruvides).
- “Cartujo,” poem & translation into english by María O’Connel, in *Pilgrimage*, Colorado State University Press, Pueblo, CO., Vol. 37, Issue 2, pp. 32-33, 2013 (M.G. Beruvides).
- “Cocuyo” / “Firefly”,” shortstory & translation into english by María O’Connel, in *Harbinger Literary Journal*, Texas Tech University Press, Lubbock, TX, 2013. (M.G. Beruvides).
- “Zapato”/“Shoe” poem & translation into english by María O’Connel, in *Open to Interpretation: Intimate Landscapes*, Mutabilis Press, Houston, Texas, pp. ??? 2012 (M.G. Beruvides).
- “Solo”/“Alone” and, “Día de Otoño”/“Autumn Day” two poems & translation into english by María O’Connel, published in *SageBrush Review*, University of Texas at San Antonio, pp. 44-47 2012 (M.G. Beruvides).
- “Reconquista”/“Reconquest” short story & translation into english by María O’Connel, published in *SageBrush Review*, University of Texas at San Antonio, pp. 84-87 2012 (M.G. Beruvides).
- “Libros/Books,” poem & translation into english by María O’Connel, published in *Improbable Worlds: an anthology of Texas and Louisiana Poets*, edited by Martha Serpas, Mutabilis Press, Houston, Texas, 2011 (M.G. Beruvides).
- “Las mentiras, la creación literaria y el interlocutor: Una visión de la novela *La vida breve* de Juan Carlos Onetti,” *Céfito - Eleventh Annual Conference on Latin-American and Iberian Languages, Literatures, and Cultures*, Lubbock, Texas, April 1-3, 2010.
- “Aspectos de lo Grotesco e Interlocución en el cuento *El amante de teatro* de Carlos Fuentes,” *Círculo: Revista de Cultura*, Centro de Cultura Panamericano, 2008, vol. 37, pp. 171-176. (M.G. Beruvides).
- “Una Rosa,” *Céfito Journal*, Texas Tech University, Lubbock, Texas, Number 6.1/6.2, pp. 111-120, Spring/Fall, 2006 (M.G. Beruvides).
- “Selección de poemas,” chapter in *Lírica del Exilio Cubano*, Academia Poética de Miami, Editora Corripio, Santo Domingo, República Dominicana, 1995 (M.G. Beruvides).
- “Barometro de la verdad” poem in *Ideal*, Christian Commitment Foundation, Miami, Florida, Marzo 1980, Año IX, No. 117: p. 54.(M.G. Beruvides).
- “Bitacora de la mentira” poem in *Ideal*, Christian Commitment Foundation, Miami, Florida, Marzo 1980, Año IX, No. 117: p. 54.(M.G. Beruvides).
- Conference Presentations
- “Interlocutory Dialogues at the Border of Life and Death,” *Céfito - XIV Annual Conference – Frontiers and Borders: Life on the Fringe of the Spanish and Portuguese Worlds and Beyond*, Lubbock, Texas, April 4-6, 2013 (María O’Connell and M.G. Beruvides).
- “Las mentiras, la creación literaria y el interlocutor: Una visión de la novela *La vida breve* de Juan Carlos Onetti,” *Céfito - Eleventh Annual Conference on Latin-American and Iberian Languages, Literatures, and Cultures*, Lubbock, Texas, April 1-3, 2010 (M.G. Beruvides).

“El arte poético de Juan Gelman: Una interlocución interna,” *Círculo de Cultura Panamericano*, Miami, Fl., Julio 23-25, 2009 (M.G. Beruvides).

“Systems Theory: Crossing the Prism of Borders,” *The 2009 Joint Conference on "Migration, Border, and the Nation-State"*, Lubbock, Texas, April 8 – 11, 2009 (M.G. Beruvides).

“Análisis de la Narración e Interlocución en la Novela *Gazapo* de Gustavo Sainz,” *Céfiro - Tenth Annual Conference on Latin-American and Iberian Languages, Literatures, and Cultures*, Lubbock, Texas, March 26 – 28, 2009 (M.G. Beruvides).

“La búsqueda de identidad: Perspectiva psicológica en la obra “Doña Berta” de Leopoldo Alas ‘Clarín’,” *Círculo de Cultura Panamericano*, Miami, Fl., Julio 25-27, 2008 (M.G. Beruvides).

“Teoría de sistemas: Ciencia, Ingeniería, Literatura y un poca más,” *Céfiro - Ninth Annual Conference on Latin-American and Iberian Languages, Literatures, and Cultures*, Lubbock, Texas, March 27 – 29, 2008 (M.G. Beruvides).

“Aspectos de lo Grotesco e Interlocución en el cuento *El amante de teatro* de Carlos Fuentes,” *Círculo de Cultura Panamericano*, Miami, Fl., Julio 27-29, 2007 (M.G. Beruvides).

“Interlocución directa e indirecta en la novela *Carlota Fainberg* de Antonio Muñoz Molina,” *Céfiro - Eighth Annual Conference on Latin-American and Iberian Languages, Literatures, and Cultures*, Lubbock, Texas, March 30 - April 1, 2007 (M.G. Beruvides).

“La influencia de factores culturales en la teoría de desiciones,” *Instituto Cultural Hispano-Americano - University of Miami*, Invited lectura, Koubek Center, Miami, Fl, July 14, 2006. (M.G. Beruvides).

“Perspectiva femenina: Herencia cultural, soledad, silencio e interlocutor en la obra *El cuarto de atrás* de Carmen Martín Gaité,” *Céfiro - Seventh Annual Conference on Latin-American and Iberian Languages, Literatures, and Cultures*, Lubbock, Texas, March 30 - April 1, 2006 (M.G. Beruvides).

“Visión Poética de un Inculto,” *XXI Congreso Cultural del Círculo de Cultura Panamericano*, Miami, Fl., July 27-29, 2001 (M.G. Beruvides).

“La poesía a través de los ojos de un ingeniero,” *42nd Mountain Interstate Foreign Language Conference*, Blacksburg, VA, 1992 (M.G. Beruvides).

“Las cartas al tiempo: Prosa en verso de una amistad,” *42nd Mountain Interstate Foreign Language Conference*, Blacksburg, VA, 1992 (A.R. Núñez and M.G. Beruvides).

AWARDS AND HONORS (NON-TECHNICAL)

Gamma Beta Phi – National Honor Society – miembro, 2010 – presente.

Sigma Delta Pi – La Sociedad Nacional Honoraria Hispánica – miembro, 2008 - presente.

Magna Cum Laude – The National Scholars Honor Society – member de por vida, 2008 - presente.

“Fruits of Your Labor” Community Service Award of the South Plains Food Bank, Lubbock, Texas, 1995.

Literary Prize Juan J. Remos of the Cruzada Educativa Cubana, Miami, FL, 1982.

2nd Place - Literary Prize José Antonio Saco of the Cruzada Educativa Cubana, (Work titled “Ensayo sobre el ideario anexionista del primer ciudadano Cubano: José Antonio Saco”), Miami, FL, 1979.

PROFESSIONAL ORGANIZATIONS

Gamma Beta Phi Honor Society – miembro, 2017 - presente

Golden Key International Honor Society – miembro, 2015 - presente

Gamma Beta Phi – miembro, 2010 - presente

Sigma Delta Pi – miembro 2008 – presente

Magna Cum Laude - miembro 2008 – presente

Círculo de Cultura Pan-Americano, miembro 2001 – presente

LAIS (Latin American and Iberian Syudies), miembro 2000 – presente

Céfiro – miembro, 2005 – presente

Asociación Historica Cubana – Vice President

Cruzada Educativa Cubana - miembro