

## Curriculum Vita

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### I. DEGREES HELD:

- B.S. Clarkson College of Technology (now Clarkson University), 1972, Industrial Management
- M.S. Union College, 1973, Operations Research
- Ph.D. Union College, 1975, Administrative and Engineering Systems

### II. IOWA STATE UNIVERSITY RECORD:

- Assistant Professor of Statistics, Iowa State University, 9/1975–8/1978
- Associate Professor of Statistics, Iowa State University, 9/1978–8/1981
- Professor of Statistics, Iowa State University, 9/1981–5/2023
- Distinguished Professor of Liberal Arts and Sciences, Iowa State University, 5/1996–5/2023
- Distinguished Professor Emeritus of Statistics, Iowa State University, after 5/2023
- Principal Investigator, ISU Center for Nondestructive Evaluation after 5/1989
- Responsible for teaching (typical teaching assignment 3 courses per year), research, supervising graduate student research, and consulting, especially in areas of business and industrial and other applied areas of statistics. Special interests in statistical intervals, reliability data analysis, accelerated test planning, nondestructive evaluation, and statistical computing.

### III. OTHER EXPERIENCE:

- Faculty affiliate, Los Alamos National Laboratory, 1999-2023.
- Intern, Statistics Program, Corporate Research and Development Center, General Electric Company, Schenectady, New York, Summers 1973-75.
- Visiting Professor and Statistical Consultant, Quality Theory and Systems Department, Bell Laboratories, Holmdel, New Jersey, Summers, 1978-1992
- Visiting Professor and Statistical Consultant, Statistics Program, Global Research Center (previously Corporate Research and Development Center), General Electric Company, Schenectady, New York, Summers 1992-2004.
- Visiting Professor Louisiana State University, Summer 1993, Fall 1994
- Visiting Professor University of Waterloo, Fall 1994
- Consultant for various companies and organizations on problems in applied statistics.

#### IV. AWARDS and HONORS:

- Fellow of the American Statistical Association, 1983.
- Elected Member of the International Statistical Institute, 1987.
- Fellow of the American Society for Quality, 2006.
- Fellow of the American Association for the Advancement of Science, 2015.
- Box Medal for Outstanding Contributions to Industrial Statistics from the European Network for Business and Industrial Statistics (ENBIS), 2020.
- American Statistical Association Deming Lecturer Award, 2015.
- Army Wilks Memorial Award for Contributions to Statistical Methodologies in Army Research, Development, and Testing, 2023.
- Best Invited Paper Award, JMP Discovery Summit, 2017.
- Alan O. Plait award for for Tutorial Excellence at the Reliability and Maintainability Symposium (RAMS), 2017.
- American Statistical Association Statistics in the Physical and Engineering Sciences Award, 2015.
- Gerald J. Hahn Quality and Productivity Achievement Award, 2015.
- American Society for Quality Brumbaugh Award, for the “paper published in the preceding year, that ... made the largest single contribution to the development of industrial application of quality control,” 2014.
- Jerome Sacks Award for Cross-disciplinary Research, National Institute of Statistical Sciences, 2012.
- W.J. Youden Prize for the best expository paper in *Technometrics* in 1996, 1998, 1999, 2002, 2009.
- Frank Wilcoxon Prize for the best practical application paper in *Technometrics* in 1987, 1995, 1999, 2015.
- American Statistical Association Outstanding Statistical Application, 2001.
- American Society for Quality Shewhart Medal for “...outstanding technical leadership in the field of modern quality control,” 2006.
- William G. Hunter Award from the Statistics Division of the American Society for Quality, 2003.
- Iowa State University Faculty Mentor Award, 2023.
- Iowa State University Margaret Ellen White Graduate Faculty Award for superior graduate student advising, 2013.
- Journal of the Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems Best Paper Award, 2019.
- 2013-2014 *Quality Engineering* Best Reliability Paper Award, American Society for Quality Reliability Division.
- Statistician of the Year (Chicago Chapter of the American Statistical Association), 2006.

- FAA-ATA Better Way Award for “Engineering Studies of Cleaning and Drying Processes for Fluorescent Penetrant Inspection” (award to a team with members from ISU Center for Nondestructive Evaluation, industrial partners, and the Federal Aviation Administration), 2004.
- Meeker and Escobar (1998) *Statistical Methods for Reliability Data*. John Wiley and Sons, Inc. won the 1998 award “for Excellence and Innovation in Engineering” from the Professional/Scholarly Publishing Division of the Association of American Publishers.
- Iowa State University Teaching Excellence Award, 1989, 1991.
- Invited to give the Youden Memorial Address, Fall Technical Conference, 2002.
- Physical and Engineering Sciences Section of the American Statistical Association Outstanding Contributed Paper Award — 2001, 2009, 2010. Honorable Mention, 1979, 1982, 1985, 2005.
- Elected Chair, 1991 Gordon Research Conference on Statistics in Chemistry and Chemical Engineering.
- Phi Kappa Phi, 1982.
- Mu Sigma Rho, 1978.
- Sigma Xi, 1975.
- Research Fellowship, Union College, 1973-1975.

#### V. EDITORIAL ACTIVITIES:

- Associate Editor, *Technometrics*, 1979-86, 2010-2016
- Editor, *Technometrics*, 1987-89
- Member, Editorial Board, *Lifetime Data Analysis*, 2001-present
- Advisory Editor, *Quality Technology & Quality Management*, 2003-present
- Member, Editorial Board, *Selected Tables in Mathematical Statistics*, 1981-1989
- Co-editor, *Selected Tables in Mathematical Statistics*, 1990-1994
- Member, Editorial Board, *International Statistical Review*, 1995-1999
- Guest Editor, for a special issue on Accelerated Testing, *Journal of Statistical Planning and Inference*, 2006-2008. Published in 2009.

#### VI. PROFESSIONAL AFFILIATIONS:

- American Association for the Advancement of Science
- American Society for Quality
- American Statistical Association
- Biometric Society
- Institute of Mathematical Statistics
- International Statistical Institute

#### VII. INTERESTS

- Professional: Industrial and economic statistics, reliability and life testing, survival analysis, applied time series, nondestructive evaluation, and statistical computing.
- Other: Amateur radio, antenna theory and modeling, radio propagation, electronics, and stamp collecting.

## VIII. GRANTS, CONTRACTS and SPECIAL PROJECTS

- “Physics and Mathematical Models for Error Quantifications in Comparative 3D Microscopy for Physical Match Analysis,” A. Bastawros (PI), W. Meeker, and R. Maitra (Co-PIs). \$742,590, 2022–2024, National Institute of Justice.
- “Physics and Statistical Models for Physical Match Analysis Utilizing 3D Microscopy of Fracture Surfaces,” A. Bastawros (PI), W. Meeker, R. Maitra, and B. Lograsso (Co-PIs). \$681,663, 2019–2021, National Institute of Justice.
- “Quantitative Tools for Examination of Microscopic Fracture Surface Topology and Degradation for Physical Match Analysis of Evidence” Ashraf Bastawros (PI), W. Meeker, R. Maitra, and B. Lograsso (Co-PIs). National Institute of Justice, \$445,341 (2015-2018).
- “Maturation of Vibrothermography Model.” Steve Holland (PI), A. Bastawros (co-PI), W. Meeker (co-PI). Air Force Research Laboratory, \$1,200,00 (2015–2019).
- PI for “Electronic Reliability Assessment,” 4/30/2012 to 5/31/2013,\$24,984, Wright Patterson Air Force Research Laboratory.
- Co-PI for “Quantifying, Optimizing and Evaluating the Detection of Flaws from Image-Based Data,” 4/1/2009 to 12/31/2013, \$418,448, Federal Aviation Administration.
- Co-PI for “Development of a Unified Physics-based Model of the Crack Heating Mechanism in Vibrothermography Nondestructive Evaluation of turbine Engine Disks,” 11-20-12 to 4-30-15, \$268,000, Universal Technology Corporation.
- Co-PI for “Onsite Collaboration in Nondestructive Evaluation (NDE) and Probability of Detection (POD) Studies in Support of Jet Engine Component Design and Manufacture,” 11/1/2012 to 10/31/2013, \$300,000, IHI Corporation.
- Co-PI for “Engineering Assessment of Fluorescent Penetrant Inspection,” Federal Aviation Administration, \$1,147,345, 9/27/2001 to 10/30/2009.
- Co-PI for “Generation of Probability of Detection (POD) Curves for Ultrasonic Detection of Simulated Hard Alpha Inclusions in Titanium Forgings,” Federal Aviation Administration \$307,089, 2/19/08 to 11/30/09.
- Co-PI “Quantitative Inspection Techniques for Assessing Aging Military Aircraft,” U. S. Air Force, \$242,743, 1/1/06 to 5/31/09.
- Co-PI for “Distributed Information Utilization for Managing Aging Assets Comprising Electric Power Systems,” NSF DDDAS, \$750,000, 6/1/06 to 6/30/09.
- PI for “Service Life Prediction Research and Data Analysis,” National Institute of Standards and Technology, \$70,880, 1/1/2006-12/31/2008.
- Co-PI for “Dual Angle Phased Array Multiple Axis Ultrasonic Testing System-Reliability Calculations and Inspectability Support” for \$1,008,000 by Pratt & Whitney, 2003-2005.

- Co-PI for “Computing Equipment to Support Research in Statistics.” Funded for \$72,565 by the National Science Foundation Scientific Computing Research Environments in the Mathematical Sciences Program under DMS-0421916, 2004-2006.
- Co-PI for “Thermal Acoustic Studies of Engine Disk Materials” for \$995,000 by the Federal Aviation Administration, 2004-2007.
- Co-PI for “Statistics for Physical and Engineering Sciences: A Plan for the Establishment of a Research Training Group” by the National Science Foundation for \$1,100,000, 2005-2010
- PI for “Statistical Modeling of Service Life Prediction,” by the Sherwin Williams Company for \$30,000, 2004-2006.
- PI for “Statistical Modeling of Service Life Prediction,” by Atlas Material Testing Technology for \$30,000, 2004-2006.
- PI for a project in “Statistical Intervals,” AT&T, \$2,400, 2000.
- Co-PI for a joint project with the ISU Center for Nondestructive Evaluation and Pratt & Whitney in “Development and Integration of Inspection Technology for Damage in On-Wing Engine Configurations”, NASA, 2000-2003.
- Co-PI for project to develop “Probability of Detection Methods and Models” for Pratt & Whitney, 1998-2001.
- Co-PI for “Engine Titanium Consortium” (Phase 2) project through the ISU Center for Nondestructive Evaluation involving a team of researchers from Iowa State University, Allied Signal Propulsion Engines, General Electric Aircraft Engines, and Pratt & Whitney. The consortium is worked to respond to recommendations made by the FAA Titanium Rotating Parts Review Team for improvements in inspection of engine titanium, 1999-2005.
- Co-PI for “Beyond Traditional Statistical Methods.” Funded for \$57,000 by the National Science Foundation Instrumentation & Laboratory Improvement Program under DUE-9751644, 1997-1999.
- Co-PI for “Engine Titanium Consortium” (Phase 1) project through the ISU Center for Nondestructive Evaluation involving a team of researchers from Iowa State University, Allied Signal Propulsion Engines, General Electric Aircraft Engines, and Pratt & Whitney. The consortium is worked to respond to recommendations made by the FAA Titanium Rotating Parts Review Team for improvements in inspection of engine titanium, 1993-1998.
- Co-PI for “Developing Modern Computing and Graphics-based Methods for Teaching Important Concepts in Undergraduate Statistics Courses.” Funded for \$55,000 by the National Science Foundation Instrumentation & Laboratory Improvement Program under USE-9250829, 1993-1995.
- Co-PI for “Engine Titanium Consortium” (Phase 1) project through the ISU Center for Nondestructive Evaluation involving a team of researchers from Iowa State University, Allied Signal Propulsion Engines, General Electric Aircraft Engines, and Pratt & Whitney. The consortium is worked to respond to recommendations made by the FAA Titanium Rotating Parts Review Team for improvements in inspection of engine titanium, 1993-1998.

- Co-PI and Thrust Coordinator at the ISU Center for Nondestructive Evaluation's "Program for Integrated Design, NDE, and Manufacturing Sciences," sponsored by the National Institute of Standards and Technology, 1989 - 1995.

#### IX. TEACHING/ADVISING DUTIES AT IOWA STATE UNIVERSITY

- Teach Applied Time Series (Statistics 451)
- Teach Reliability (Statistics 533)
- Teach Introduction to Business Statistics II (Statistics 326).
- Co-Teach Advanced Statistical Methods for Research Workers (Statistics 415)
- Advise Statistics students in the M.S. and Ph.D. programs
- Serve on graduate student committees for students in Statistics, Economics, Engineering, Business and other areas
- Statistician for ISU Center for Nondestructive Evaluation projects
- Serve on various computer committees at University, College and Departmental level.
- Serve on other departmental committees.
- Coordinator and Co-Principal Investigator for the technical part of an NSF ILI project to develop innovative instructional modules for modern statistical methods

#### X. COURSES TAUGHT AT IOWA STATE UNIVERSITY

- 1975-1976: Stat 327B(F), 127C(F), 327A(W), 127A(W), 327B(S), 105D(S)
- 1976-1977: Stat 327A(F), 127C(F), 327A(W), 327C(W), 327C(S), 105A1(S), NSF SST Program(SS1)
- 1977-1978: Stat 327A(F), 127C(F), 327A2(W), 327A(S), 451X(S)
- 1978-1979: Stat 127C(F), 327B(F), 327A(W), 327A(S), 451X(S)
- 1979-1980: Stat 127C(F), 327A(F), 327A(W), 327C(S), 451(S)
- 1980-1981: Stat 127A(F), 327A(F), 327E(W), 431(S), 451(S)
- 1981-1982: Stat 227D(F), 228A(F), 228(S), 451(S)
- 1982-1983: Stat 227D(F), 228A(F), 451(S)
- 1983-1984: Stat 227D(F), 228A(F), 451(S), 533(S)
- 1984-1985: Stat 227F(F), 228A(F), 451(S)
- 1985-1986: Stat 227F(F), 328A(F), 451(S), 533(S)
- 1986-1987: Stat 328(F), 451(S)
- 1987-1988: Stat 328(F), 451(S), 533(S)
- 1988-1989: Stat 328(F), 227F(F), 451(S)
- 1989-1990: Stat 328(F), 451(S), 533(S)
- 1990-1991: Stat 328(F), 451(S)
- 1991-1992: Stat 328(F), 451(S), 533(S)
- 1992-1993: Stat 328(F), 451(S)

- 1993-1994: Stat 328(F), 451(S), 533(S)
- 1994-1995: Faculty Improvement Leave Fall Semester; 451(S)
- 1995-1996: Stat 227(F), 451(S), 533XW(S), 533(S)
- 1996-1997: Stat 328(F), 451(S)
- 1997-1998: Stat 328(F), 451(S), 533(S), 533XW(S)
- 1998-1999: Stat 451(S), 415(S)
- 1999-2000: Stat 328(F), 451(S), 415(S), 533(S), 533XW(S)
- 2000-2001: Stat 451(S), 415(S)
- 2001-2002: Stat 328(F), 451(S), 533(S), 533XW(S)
- 2002-2003: 451(S), 415(S)
- 2003-2004: Stat 328(F), 451(S), 533(S), 533XW(S)
- 2004-2005: 451(S), 415(S)
- 2005-2006: Stat 328(F), 451(S), 533(S), 533XW(S)
- 2006-2007: Stat 328(F), 451(S)
- 2007-2008: Stat 528(F), 451(S), 533(S), 533XW(S)
- 2008-2009: Stat 528(F), 451(S)
- 2009-2010: Stat 528(F), 451(S), 533(S), 533XW(S)
- 2010-2011: Stat 326(F), 451(S)
- 2011-2012: Stat 326(F), 451(S), 533(S), 533XW(S)
- 2012-2013: Stat 226(F), 451(S)
- 2013-2014: 451(S), 533(S), 533XW(S)
- 2014-2015: 451(S)
- 2015-2016: 533(S), 533XW(S), 451(S), 451XW(S)
- 2016-2017: 451(S), 451XW(S)
- 2017-2018: 533(S), 533XW(S), 451(S), 451XW(S)
- 2018-2019: 451(S), 451XW(S)
- 2019-2020: 533(S), 533XW(S), 451(S), 451XW(S)
- 2020-2021: 472/572WWW(S)
- 2021-2022: 533WWW(S), 472/572WWW(S)

## XI. GRADUATE STUDENTS DIRECTED AT IOWA STATE UNIVERSITY

- Michael Hale, M.S., August 1976
- Kent Skalland, M.S., August 1977
- Joy Castonguay, M.S., March 1979
- Jiunn-Charn Chen, M.S., March 1979
- Michael Haung, M.S., March 1979
- Susan Kivior, M.S., May 1979
- Slamet, M.S., November 1979

- Steven Duke, M.S., May 1980
- Sheue-Wen Hsu, M.S., August 1980
- Mark Rees, M.S., June 1981
- Luis Escobar, Ph.D., November 1981
- Michael Tviete, M.S., November 1981
- George Ostrouchov, M.S., November 1981
- Victoria Black, M.S., May 1983
- Debra Schroeder, M.S., May 1983
- Hugh Voight, M.S., December 1983
- Sharon Loubert, M.S., December 1983
- David Martinich, M.S., May 1984
- Jason Jones, M.S., May 1984
- Annette Wagner, M.S., August, 1984
- Bahtiar Saleh Abbas, M.S., May 1985
- Douglas Edwin McCoy, M.S., May 1985
- Karen Jensen, M.S., December 1985
- I-Shang Chow, M.S., May 1986
- Terry Caliste, M.S., May 1986
- Sharon Loubert, Ph.D., December 1986
- Scott Vander Weil, M.S., August 1987
- Janelle Dombek, M.S., December 1987
- Terry Moy, M.S., May 1988
- Susan Wettstein, M.S., August 1988
- Carol Meeter, M.S., August 1989
- Cindy Long, M.S., August 1989
- Mary Saylor, M.S., August 1989
- Linda Brands, M.S., December 1989
- David Steenhardt, M.S., August 1989
- Scott Anderson, M.S., May 1990
- Chia-Lin Li, M.S., August 1990
- Shelly L. Gregory, M.S., May 1991
- Susan L. Holman, M.S., May 1991
- D.H. Lyan, M.S., May 1991
- Barbara A. Dombroski, M.S., August 1991
- Christian G. Garrigoux, M.S., August 1991
- Leroy Rushing, M.S., December 1991
- Bryan Lindstrom, M.S., December 1991
- Joseph Lu, Ph.D., June 1992



- Alice Cheng, M.S., May 1992
- Chris Novak, M.S., May 1992
- Dilek Tali, M.S., August 1992
- Christian Garrigoux, Ph.D., December 1992
- Chuck Lerch, M.S., August 1993
- Ann Cannon (co-advised with with Noel Cressie), Ph.D., May 1994
- Jave Pascual, M.S., August 1994
- Delfino Vargas, M.S., December 1994
- Dennis Field, M.S., May 1995
- Shiping Liu, M.S., August 1996
- Xue Wang, M.S., May 1997
- Yaling Fan, M.S., August 1997
- Abigale Sage, M.S., May 1997
- Jave Pascual, Ph.D., December 1997
- Victor Chan, M.S., December 1997
- Shuen-Lin Jeng, Ph.D., August 1998
- Dan Nordman, M.S., May 1999
- Hwei-Chun Chou, M.S., August 1999
- Kim Wentzlaff, M.S., May 1999
- Scott McKane, M.S., May 2000
- Edward Staats, M.S. May 2000
- Ulrike Genschel, M.Sc. (Dortmund University), February 2001
- Xuchan Wang, M.S., May 2001
- Victor Chan, Ph.D., August 2001
- Yao Zhang, Ph.D., May 2002
- Jianying Zuo, M.S., August 2002
- Haiming Ma, M.S., May 2003
- Jill Van Wettering, M.S., August 2003
- Yurong Wang, M.S., December 2003
- Guodong Du, M.S., May 2004
- Chunyu Yang, M.S., August 2004
- Yili Hong, M.S., December 2005
- Chunwang Gao, M.S., December 2005
- Esteban M. Gil, M.S., May 2006
- Yurong Wang, Ph.D., May 2006
- Qi Jiang, Ph.D., December 2006 (joint with ABE)
- Ying Shi, M.S., May 2007
- Ming Li, M.S., August 2008

- Haiming Ma, Ph.D., May 2009
- Yili Hong, Ph.D., August 2009
- Brian Weaver, M.S., December 2009
- Chunwang Gao, Ph.D., May 2010
- Jianying Zuo (co-advised with Huaiqing Wu), Ph.D, May 2010
- Ming Li, Ph.D., August 2010
- Ying Shi, Ph.D., December 2010
- Shiyao Liu, M.S., December 2010
- Fanqi Meng, M.S., December 2010
- Brian Weaver, Ph.D., May 2011
- Travell Williams, M.S., December 2012.
- Ye Tian, Ph.D., May 2013
- Shiyao Liu, Ph.D., August 2013
- Jia Liu (co-advised with Dan Nordman), Ph.D., December 2013
- Yew-Meng Koh, Ph.D., December 2014
- Michael Czahor, M.S., May 2016
- Wei Zhang, Ph.D., May 2016
- Wei Hu, M.S., May 2017
- Xiangzhen Li, M.S., May 2017
- Qinglong Tian, M.S., December 2018
- Michael Czahor (Statistics and Wind Energy Science, Engineering, and Policy), Ph.D., May 2019.
- Emily O'Connor, M.S., May 2019.
- Qianqian Shan, Ph.D., December 2019.
- Qinglong Tian, (co-advised with Dan Nordman), Ph.D., May 2021.
- Troy Ness, M.S., August 2022.

## XII. GRADUATE STUDENTS CURRENTLY UNDER SUPERVISION AT IOWA STATE UNIVERSITY

- Steve Conner, M.S.
- Tim Perkins, M.S.
- Diaz Aksioma, Ph.D.

I also serve as a member of Program of Study committees (averaging about 15 committee appointments at any point in time) for graduate students in various disciplines including Statistics, Computer and Electrical Engineering, Civil Engineering, and Industrial Engineering.

## XIII. DEPARTMENT OF STATISTICS COMMITTEES:

- 1975-1976: Undergraduate Committee, Committee on Research and Instructional Use of Computers in Statistics

- 1976-1977: Undergraduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Seminar Committee
- 1977-1978: Undergraduate Committee, Committee on Research and Instructional Use of Computers in Statistics
- 1978-1979: Undergraduate Committee, Committee on Research and Instructional Use of Computers in Statistics
- 1979-1980: Graduate Committee, Undergraduate Committee, Student-Faculty Committee on Instruction (Co-Chair), Committee on Research and Instructional Use of Computers in Statistics
- 1980-1981: Graduate Committee, Undergraduate Committee, Student-Faculty Committee on Instruction (Co-Chair), Committee on Research and Instructional Use of Computers in Statistics
- 1981-1982: Graduate Committee, Undergraduate Committee, Student-Faculty Committee on Instruction (Co-Chair), Committee on Research and Instructional Use of Computers in Statistics
- 1982-1983: Graduate Committee, Undergraduate Committee, Student-Faculty Committee on Instruction (Co-Chair), Committee on Research and Instructional Use of Computers in Statistics, Advisory Committee on Promotion and Tenure
- 1983-1984: Graduate Committee, Undergraduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Advisory Committee on Promotion and Tenure
- 1984-1985: Graduate Committee, Undergraduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Advisory Committee on Promotion and Tenure
- 1985-1986: Graduate Committee, Undergraduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Advisory Committee on Promotion and Tenure
- 1986-1987: Graduate Committee, Undergraduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Student-Faculty Committee on Instruction
- 1987-1988: Graduate Committee, Undergraduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Student-Faculty Committee on Instruction
- 1988-1989: Graduate Committee, Undergraduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Student-Faculty Committee on Instruction (Chair)
- 1989-1990: Graduate Committee, Undergraduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Student-Faculty Committee on Instruction (Chair)
- 1990-1991: Graduate Committee, Undergraduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Ad Hoc Committee on Statistical Methods, Methods Position Search Committee
- 1991-1992: Graduate Committee, Undergraduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Methods Position Search Committee

- 1992-1993: Graduate Committee, Undergraduate Committee, Committee on Research and Instructional Use of Computers in Statistics
- 1993-94: Graduate Committee, Undergraduate Committee, Committee on Research and Instructional Use of Computers in Statistics
- 1994-1995: Graduate Committee, Undergraduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Student-Faculty Committee on Instruction, Assistantship Evaluation Committee
- 1995-1996: Graduate Committee, Undergraduate Committee, Committee on Research and Instructional Use of Computers in Statistics
- 1996-1997: Graduate Committee, Undergraduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Capital Campaign Committee
- 1997-1998: Graduate Committee, Undergraduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Capital Campaign Committee, Engineering Search Committee
- 1998-1999: Graduate Committee, Undergraduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Capital Campaign Committee
- 1999-2000: Graduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Capital Campaign Committee, Baker Chair search committee
- 2000-2001: Graduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Capital Campaign Committee, Survey search committee, Ad-hoc Snedecor Space committee
- 2001-2002: Graduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Capital Campaign Committee, Department chair search committee, Senior faculty search committee (chair)
- 2002-2003: Graduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Advisory Committee on Promotion and Tenure, Capital Campaign
- 2003-2004: Graduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Department Chair's Advisory Committee Committee, Advisory Committee on Promotion and Tenure
- 2004-2005: Graduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Department Chair's Advisory Committee Committee, Advisory Committee on Promotion and Tenure (Chair)
- 2005-2006: Graduate Committee (Chair), Committee on Research and Instructional Use of Computers in Statistics, Department Chair's Advisory Committee Committee
- 2006-2007: Graduate Committee, Department Chair's Advisory Committee Committee, Committee on Research and Instructional Use of Computers in Statistics, PhD Prelim Exam Committee, 75th Stat Lab Anniversary Committee
- 2007-2008: Graduate Committee, Department Chair's Advisory Committee Committee, Committee on Research and Instructional Use of Computers in Statistics, Chair Statistics Search Committee

- 2007-2008: Graduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Distance Education Advisory Committee
- 2008-2009: Graduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Distance Education Advisory Committee
- 2009-2010: Graduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Advisory Committee on Promotion and Tenure, Memorial Lectures
- 2010-2011: Graduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Advisory Committee on Promotion and Tenure, Memorial Lectures, Graduate Subcommittee Committee to consider graduate program curriculum changes
- 2011-2012: Graduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Advisory Committee on Promotion and Tenure, Memorial Lectures, Chair, Graduate Subcommittee Committee to consider graduate program curriculum changes
- 2012-2013: Graduate Committee, Committee on Research and Instructional Use of Computers in Statistics, Honors and Awards Committee, Memorial Lectures
- 2013-2014: Graduate Committee, Honors and Awards Committee, Memorial Lectures Committee, Promotion and Tenure Committee, Post-Tenure Review Committee
- 2014-2015: Graduate Committee, Memorial Lectures Committee, Promotion and Tenure Committee, Post-Tenure Review Committee
- 2015-2016: Graduate Committee, Memorial Lectures Committee, Chair, Promotion and Tenure Committee, Post-Tenure Review Committee
- 2016-2017: Graduate Committee, Computation Advisory Committee, Memorial Lectures Committee, Post-Tenure Review Committee
- 2017-2018: Chair, Department of Statistics Assistant Professor Search Committee, Graduate Committee, Computation Advisory Committee, Memorial Lectures Committee, Promotion and Tenure Committee, Post-Tenure Review Committee
- 2018-2019: Graduate Committee, Computation Advisory Committee, Memorial Lectures Committee
- 2019-2020: Graduate Committee, Chair, Computation Advisory Committee, Chair, Memorial Lectures Committee
- 2020-2021: Graduate Committee, Chair, Computation Advisory Committee, Diversity, Equity, and Inclusion Committee
- 2021-2022: Graduate Committee, Chair, Computation Advisory Committee, Diversity, Equity, and Inclusion Committee, PhD Prelim Exam Future Committee
- 2022-2023: Graduate Committee, Chair, Computation Advisory Committee, Diversity, Equity, and Inclusion Committee, Honors and Awards Committee, Department of Statistics Assistant Professor Search Committee.

#### XIV. UNIVERSITY AND COLLEGE COMMITTEES:

- College of Science and Humanities Representative Assembly, 1978-81

- Engineering Research Institute, Nuclear Safety Research Group, 1978-79
- Industrial Administrative Sciences Supervisory Committee, 1978-86
- College of Science and Humanities Academic Standards Committee, 1980-83 (Chair, 1981-83)
- University Academic Standards Committee, 1981-83
- College of Sciences and Humanities Ad Hoc Committee on Admissions Standards, 1982-83
- College of Sciences and Humanities Admissions Policy Advisory Committee, 1983-85
- Long Range Planning Subcommittee of the University Computation Advisory Committee, 1992-93
- University Software Suite Statistical Software Selection Committee, 1992-94, 1999-2000
- University Computation Advisory Committee, Access and Information Subcommittee of the University Computation Advisory Committee, 1992-2003 (Chair 1992-1995, 1998-1999, 1999-2000, 2000-2002)
- Dean of Liberal Arts and Sciences College Search Committee, 2003-2004.
- Provost's Committee to Review Distinguished Professor Nominations, 2003-2005.
- Computation Center Advisory Subcommittee of the University Computation Advisory Committee, 1992-2008
- College of Liberal Arts and Sciences Computer Fee Allocation Committee, 1992-2008 (Chair 1995-1996, 1999-2007)
- LAS Dean's Committee to Review Distinguished Professor Nominations, 2005-2009.
- Provost's Committee to Review University Professor Nominations, 2008-2010.

#### XV. EXTRA-UNIVERSITY COMMITTEES/OFFICES:

- Steering committee for a National Science Foundation grant to the University of New Hampshire for "Diagnostic and Instructional Services for College Students of Statistics," 1977-78
- National Research Council "Panel on Experimental Techniques for the Evaluation of the Degradation of Electrical Insulation," 1979-80
- Secretary-Treasurer, Business and Economics Section of the American Statistical Association, 1981-82
- Advisory Board, Section on Physical and Engineering Sciences of the American Statistical Association, 1984-86
- American Statistical Association Committee on Publications, 1987-89
- American Statistical Association Ad Hoc Committee for a Journal of Computational and Graphical Statistics, 1987-90
- President, Iowa Chapter, American Statistical Association, 1989-91
- Chair, Institute of Mathematical Statistics Committee on Statistical Tables, 1990-94

- American Society for Quality Control Publications Management Board, 1991-93
- Chair, *Technometrics* Management Committee, 1991-93
- COPSS Visiting Lecturer, 1991-95
- American Statistical Association Journals Management Committee, 1992-93
- Iowa Chapter Representative to the American Statistical Association Council of Chapters, 1995-97
- International Statistical Institute Committee for Statistics in Business and Industry, Executive Committee, Webmaster, 1997-2005.
- NSF SCREMS Proposal Review Panel, 1998.
- Program Chair, Spring Research Conference, 1999.
- American Statistical Association Fellows Committee, 2001-2003.
- NSF Statistics Research Proposal Review Panel, December 2001.
- NSF CAREER Proposal Review Panel, 2002.
- National Research Council “Panel on Operational Test Design and Evaluation of the Interim Armored Vehicle,” 2001-2003.
- Chair, American Statistical Association Task force on Journals Marketing, 2003.
- American Statistical Association Task force on Electronic Publications, 2002-2004.
- NSF SCREMS Proposal Review Panel, 2005.
- American Statistical Association Publications Committee, 1998–2006 (Chair, 2003-2006).
- NSF SCREMS Proposal Review Panel, 2006.
- NSF Research Experiences for Undergraduates Proposal Review Panel, 2006.
- National Research Council “Panel on Reduction of False Alarm Rates in CT Checked Baggage Scans,” 2008-2013.
- National Research Council “Panel on Air and Ground Vehicle Technology,” 2011-2014.
- National Research Council “Panel on Theory and Application of Reliability Growth Modeling to Defense Systems,” 2011-2014.
- National Academies Panel on Mechanical Science and Engineering at the Army Research Laboratory, 2015-2016.
- National Academies Panel on Mechanical Science and Engineering at the Army Research Laboratory, 2017-2018.

#### XVI. SERVICE AS AN EXTERNAL REVIEWER:

- Program review, Ph.D. Program in Statistics, Polytechnic Institute of New York, February 1985.
- External thesis examiner, Mir Taher Mirnazari, University of Waterloo, June 1995.
- Program review, M.Sc. Program in Statistics and Operations Research, Kuwait University, March 1999.

- External thesis examiner, Thierry Duchesne, University of Waterloo, September 1999.
- External thesis examiner, Jahar Bikram Choudhury, University of University of Western Australia, July 2003.
- External thesis examiner, Marc Fredette, University of Waterloo, September 2004.
- Program review, School of Industrial and Systems Engineering, Georgia Institute of Technology, 2007.
- Frequent proposal reviewer for grant proposals from the National Science Foundation, National Sciences and Engineering Research Council of Canada, National Security Administration, and other granting agencies.
- Frequent referee for various journals including *Journal of the American Statistical Association*, *Technometrics*, *Journal of Quality Technology*, *IEEE Transactions on Reliability*, *Life Time Data Analysis*, and *The American Statistician*. Occasional referee for a number of other journals.

#### XVII. BOOKS AND BOOKLETS:

- (1) Meeker, W.Q., Cornwell, L., and Aroian, L.A. (1981), The Product of Two Normally Distributed Random Variables. Volume 7 of *Selected Tables in Mathematical Statistics*.
- (2) Meeker, W.Q., and Hahn, G.J. (1985), How To Plan An Accelerated Life Tests—Some Practical Guidelines. Volume 10 in the *American Society for Quality Control Basic References in Quality Control: Statistical Techniques*. Milwaukee, Wisconsin: American Society for Quality Control.
- (3) Hahn, G.J., and Meeker, W.Q. (1991), *Statistical Intervals: A Guide for Practitioners*. John Wiley and Sons, Inc.
- (4) Meeker, W.Q. and Escobar, L.A. (1998), *Statistical Methods for Reliability Data*. John Wiley and Sons, Inc.
- (5) Hahn, G.J., and Doganaksoy, N., (2008), *The Role of Statistics in Business and Industry*. John Wiley and Sons, Inc. William Meeker is a “contributing author” for this book.
- (6) Meeker, W.Q., Hahn, G.J., and Escobar, L.A. (2017), *Statistical Intervals: A Guide for Practitioners and Researchers*, Second Edition, Wiley.
- (7) Doganaksoy, N., Meeker, W.Q., and Hahn, G.J. (2021), *Achieving Product Reliability*. CRC Press.
- (8) Meeker, W.Q., Escobar, L.A., and Pascual, F.G. (2022), *Data Sets Used in Statistical Methods for Reliability Data*, Second Edition, Wiley.

#### XVIII. BOOK CHAPTERS:

- (1) Meeker, W.Q. (1979), Nites Rest Inc. - A Box-Jenkins Time Series Analysis Case Study. Chapter 12 in *Forecasting, Time Series, and Regression: An Applied Approach* by Bruce L. Bowerman and Richard T. O’Connell, Duxbury Press, North Scituate, MA.



- (2) Meeker, W.Q. and L.A. Escobar. 1993. Recent and Future Research on Practical Methods for Accelerated Testing. Chapter 4 in *Quality Through Engineering Design*, edited by Way Kuo, Elsevier Science Publishers B. V., New York.
- (3) Meeker, W.Q., and Escobar, L.A. (1994), Maximum Likelihood Methods for Fitting Parametric Statistical Models to Censored and Truncated Data. Chapter 8 in *Probabilistic and Statistical Methods in the Physical Sciences*, edited by John Stanford and Stephen Vardeman, New York: Academic Press.
- (4) Meeker, W.Q. and Escobar, L.A. (1999), Accelerated Life Tests: Concepts and Data Analysis, Chapter 10 in *A Systems Approach to Service Life Prediction of Organic Coatings* Washington: American Chemical Society, D. R. Bauer and J. W. Martin, Editors.
- (5) Meeker, W.Q., Escobar, L.A., Doganaksoy, N., and Hahn, G.J. (1999), Reliability Concepts and Data Analysis, Section 48 in the *Juran's Handbook on Quality*, 5th Edition, Edited by J. M. Juran and A. B. Godfrey, New York: McGraw Hill.
- (6) Meeker, W.Q., Escobar, L.A., and Chan, V. (2002), Using Accelerated Tests to Predict Service Life in Highly-Variable Environments. Chapter 19 in *Service Life Prediction Methodology and Metrologies* Washington: American Chemical Society, J. W. Martin and D. R. Bauer, Editors.
- (7) Meeker, W.Q., Escobar, L.A., and Zayac, S. A. (2003), Use of sensitivity analysis to assess the effect of model uncertainty in analyzing accelerated life test data. Chapter 6 in *Case Studies in Reliability and Maintenance*, Blischke, W. R. and Murthy, D. N. P., Editors, John Wiley & Sons: New York.
- (8) Meeker, W.Q., and Escobar, L.A. (2003), Use of Truncated Regression Methods to Estimate the Shelf Life of a Product from Incomplete Historical Data. Chapter 12 in *Case Studies in Reliability and Maintenance*, Blischke, W. R. and Murthy, D. N. P., Editors, John Wiley & Sons: New York.
- (9) Doganaksoy, N., Hahn, G.J., and Meeker, W.Q. (2005), Assuring Product Reliability and Safety, a chapter in *Statistics - A Guide to the Unknown*, 4th Edition, edited by Roxy Peck and others, Brooks-Cole and the American Statistical Association.
- (10) Pascual, F.G., Meeker, W.Q., and Escobar, L.A. (2006), Accelerated Life Test Models and Data Analysis. Chapter 19 in *Handbook for Engineering Statistics*, Hoang Pham (Editor), New York: Springer.
- (11) Gu, X., Stanley, D. Byrd, W., Dickens, B., Vaca-Trigo, I. and Meeker, W.Q., Nguyen, Chin, J. Martin, J. (2009), Linking Accelerated Laboratory Test with Outdoor Performance Results for a Model Epoxy Coating System, in *Service Life Prediction of Polymeric Materials*, edited by J. Martin, R. A. Ryntz, J. Chin, R. A. Dickie, Springer.
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- (13) Meeker, W.Q., and Escobar, L.A. (2011), Reliability, Chapter 14 in *System Health Management with Aerospace Applications*, Johnson et al., Editors. John Wiley & Sons: Hoboken.

- (14) Schmee, J. and Meeker, W.Q. (2011), Careers in Academia, Chapter 13 in *A Career in Statistics, Beyond the Numbers* by G.J. Hahn and N. Doganaksoy, John Wiley & Sons: Hoboken.
- (15) Hong, Y., Meeker, W.Q., and Escobar, L.A. (2011), "Degradation Models and Analyses," Chapter 12 in *Handbook of Engineering, Quality Control, and Physical Sciences*, John Wiley & Sons: Hoboken.
- (16) Shi, Y. and Meeker, W.Q. (2013), Planning Accelerated Destructive Degradation Tests with Competing Risks. Chapter in 22, pages 335-356 in *Statistical Models for Reliability and Survival Analysis*, V. Couallier, L. Gerville-Réache, C. Huber, N. Limnios, and M. Mesbah, Editors. Hermes-Wiley.

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- (1) Meeker, W., Hahn, G., and Feder, P. (1975), A Computer Program for Evaluating and Comparing Experimental Designs and Some Applications. *The American Statistician* 29, 60–64.
- (2) Meeker, W. and Nelson, W. (1975), Optimum Accelerated Life Tests for Weibull and Extreme Value Distributions. *IEEE Transactions on Reliability* R-24, 321–332.
- (3) Meeker, W. and Nelson, W. (1976), Weibull Percentile Estimates and Confidence Limits from Singly Censored Data by Maximum Likelihood. *IEEE Transactions on Reliability* R-25, 20–24.
- (4) Hahn, G., Meeker, W., and Feder, P. (1976), The Evaluation and Comparison of Experimental Designs for Fitting Regression Relationships. *Journal of Quality Technology* 8, 140–157.
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- (6) Meeker, W. and Nelson, W. (1976), Tables for the Weibull and Extreme Value Distributions. *The Relia-Com Review*, 1, 1–5.
- (7) Meeker, W.Q., Hahn, G.J., and Feder, P.I., (1977), New Bias Evaluation Features of EXPLOR-A Program for Assessing Experimental Design Properties. *The American Statistician* 31, 95–96.
- (8) Meeker, W.Q. and Hahn, G.J. (1977), Asymptotically Optimum Over-Stress Tests to Estimate the Survival Probability at a Condition with a Low Expected Failure Probability (with discussion). *Technometrics* 19, 381–399.
- (9) Meeker, W. and Nelson, W. (1977), Confidence Limits for the Weibull Distribution from Censored Data. *Technometrics* 19, 473–476.
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- (11) Meeker, W.Q. (1978), Sequential Tests of Independence for 2x2 Contingency Tables. *Biometrika* 65, 85–90.
- (12) Nelson, W. and Meeker, W. (1978), Theory for Optimum Accelerated Life Tests for the Weibull and Extreme Value Distributions. *Technometrics* 20, 171–177.

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- (16) Meeker, W.Q. and Hahn, G.J. (1980), Prediction Intervals for the Ratios of Normal Distribution Sample Variances and Exponential Distribution Sample Means. *Technometrics* 22, 357–366.
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- (24) Escobar, L.A. and Meeker, W.Q. (1986), Optimum Accelerated Life Tests with Type II Censored Data. *Journal of Statistical Computation and Simulation* 23, 273–297.
- (25) Escobar, L.A. and Meeker, W.Q. (1986), Elements of the Fisher Information Matrix for the Smallest Extreme Value Distribution and Censored Data. *Applied Statistics* 35, 80–86.
- (26) Meeker, W.Q. (1986), Planning Life Tests in which Units are Periodically Inspected for Failure. *IEEE Transactions on Reliability*, R-35, 571–578.
- (27) Meeker, W.Q. (1987), Limited Failure Population Life Tests: Application to Integrated Circuit Reliability. *Technometrics* 29, 151–165.
- (28) Ostrouchov, G. and Meeker, W.Q. (1988), Accuracy of Approximate Confidence Bounds from Interval Censored Weibull and Lognormal Data. *Journal of Statistical Computation and Simulation* 29, 43–76.
- (29) Vander Weil S., and Meeker, W.Q. (1990), Accuracy of Approximate Confidence Bounds Using Censored Weibull Regression Data from Accelerated Life Tests. *IEEE Transactions on Reliability* 39, 346–351.

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- (31) Meeker, W.Q., Escobar, L.A., and Hill, D.A. (1992), Sample Sizes for Estimating the Weibull Distribution Hazard Function from Censored Samples. *IEEE Transactions on Reliability* R-41, 133–138.
- (32) Escobar, L.A. and Meeker, W.Q. (1992), Assessing Local Influence in Regression Analysis with Censored Data. *Biometrics* 48, 507–528.
- (33) Kernan, W.J. and Meeker, W.Q. (1992), A Statistical Test to Assess Changes in Spontaneous Behavior of Rats Observed with a Computer Recognition System, *Journal of Biopharmaceutical Statistics* 2, 115–135.
- (34) Hahn, G.J. and Meeker, W.Q. (1993), The Assumptions of Statistical Inference. *The American Statistician* 47, 1–11.
- (35) Lu, C.J., and Meeker, W.Q. (1993), Using Degradation Measures to Estimate a Time-to-Failure Distribution. *Technometrics* 35, 161–174.
- (36) Meeker, W.Q., and Escobar, L.A. (1993), A Review of Recent Research and Current Issues in Accelerated Testing. *International Statistical Review* 61, 147–168.
- (37) Arnold, B.C., Beaver, R., Groeneveld, R.A., and Meeker, W.Q. (1993), The Non-truncated Marginal of a Truncated Bivariate Normal Distribution, *Psychometrika* 58, 471–488.
- (38) Meeker, W.Q., and Escobar, L.A. (1994), An Algorithm to Compute the cdf of the Product of Two Normal Random Variables, *Communications in Statistics* 23, 271–280.
- (39) Meeter, C.A., and Meeker, W.Q. (1994), Optimum Accelerated Life Tests with Nonconstant Scale Parameter. *Technometrics* 36, 71–83.
- (40) Escobar, L.A., and Meeker, W.Q. (1994), Fisher Information Matrix for the Extreme Value, Normal, and Logistic Distributions and Censored Data, *Applied Statistics*, 43, 533–540.
- (41) Garrigoux, C.G. and Meeker, W.Q. (1994), A Reliability Model for Planning In-Service Inspections for Components Subject to Degradation Failure, *Pakistan Journal of Statistics*, 10 79–98.
- (42) Garrigoux, C.G. and Meeker, W.Q. (1995), Assessing the Effect of In-Service Inspections on the Reliability of Degrading Components, *Recent Advances in Life-Testing and Reliability*, N. Balakrishnan (Editor), CRC Press.
- (43) Meeker, W.Q., and LuValle, M.J. (1995), An Accelerated Life Test Model Based on Reliability Kinetics. *Technometrics* 37, 133–146.
- (44) Meeker, W.Q., and Escobar, L.A. (1995), Teaching About Approximate Confidence Regions Based on Maximum Likelihood Estimation, *The American Statistician* 49, 48–53.
- (45) Meeker, W.Q. and Hamada, M. (1995), Statistical Tools for the Rapid Development & Evaluation of High-Reliability Products, *IEEE Transactions on Reliability* R-44, 187–198.

- (46) Moore, D.S., Cobb, G.W., Garfield, J., and Meeker, W.Q. (1995), Statistics Education Fin de Siècle, *The American Statistician* 49, 250–260.
- (47) Escobar, L.A., and Meeker, W.Q. (1995), Planning Accelerated Life Tests with Two or More Factors. *Technometrics* 37, 411–427.
- (48) Olin, B.D. and Meeker, W.Q., (1996), Applications of Statistics in Nondestructive Evaluation (with discussion). *Technometrics* 38, 95–112.
- (49) Cannon, A.R. and Meeker, W.Q. (1996), Statistical Tests for Signals in Categorical Temporal Data. *Biometrical Journal* 38, 39–59.
- (50) Lu, C.J., Meeker, W.Q., and Escobar, L.A. (1996), A Comparison of Degradation and Failure-Time Analysis Methods of Estimating a Time-to-Failure Distribution. *Statistica Sinica* 6, 531–546.
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- (52) Field, D. and Meeker, W.Q. (1996), Optimizing Product Design Based on Time to Failure Distributions. *Quality and Reliability Engineering International* 12, 429–438.
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- (55) Escobar, L.A. and Meeker, W.Q. (1998), Fisher information matrices with censoring, truncation, and explanatory variables. *Statistica Sinica* 8, 221–237.
- (56) Sarkar, P. and Meeker, W.Q. (1998), A Bayesian On-Line Change Detection Algorithm with Process Monitoring Applications. *Quality Engineering* 10, 539–549.
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- (60) Escobar, L.A., and Meeker, W.Q. (1999), Statistical Prediction Based on Censored Life Data. *Technometrics* 41, 113–124.
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- (1) Meeker, William Q., Luis A. Escobar, Francis G. Pascual, Yili Hong, Peng Liu, Wayne M. Falk, and Balajee Ananthasayanam (2022). Modern Statistical Models and Methods for Estimating Fatigue-Life and Fatigue-Strength Distributions from Experimental Data. arXiv preprint arXiv:2212.04550.
- (2) Min, J., Hong, Y., Meeker, W.Q., and Ostrouchov, G. (2023), Spatially Correlated Competing Risks Time-to-Event Model for Titan GPU Failure Data.
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## XXIII. INVITED CONTRIBUTIONS

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XXIV. BOOKS IN PREPARATION (and projected dates of completion)

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XXV. SOFTWARE DEVELOPED AND DISTRIBUTED (dates indicate new versions released):

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#### XXVI. Co-authored Panel/Project Reports Having Undergone Formal Review

- (1) *A Methodology for the Assessment of the Capability of Inspection Systems for Detection of Subsurface Flaws in Aircraft Turbine Engine Components*, U.S. Department of Transportation, Federal Aviation Administration, September 2002.
- (2) Burkel, R.H., Chiou, C.P., Keys, T.K., Meeker, W.Q., Rose, J.H., Sturges, D.J., Thompson, R.B., Tucker, W.T. (2002), "A Methodology for the Assessment of the Capability of Inspection Systems for the Detection of Subsurface Flaws in Aircraft Turbine Engine Components." DOT/FAA/AR-01/96, U.S. Department of Transportation, Federal Aviation Administration.
- (3) *Improved Operational Testing and Evaluation: Better Measurement and Test Design for the Interim Brigade Combat Team with Stryker Vehicles*, Phase I Report, Panel on Operational Test Test Design and Evaluation of the Interim Armored Vehicle, Committee on National Statistics, National Research Council of the National Academies, 2003.
- (4) *Improved Operational Testing and Evaluation and Methods of Combining Test Information for the Stryker Family of Vehicles and Related Army Systems: Phase II Report*, Panel on Operational Test Design and Evaluation of the Interim Armored Vehicle, National Research Council of the National Academies, 2004.
- (5) *Statistical Issues Relating to Materials State Awareness*, in Proceedings of a Workshop on Materials State Awareness, National Research Council of the National Academies, 2008.

- (6) Brasche, L., Chiou, T., Thompson, R.B., Smith, K., Meeker, B., Margetan, F., Panetta, P., Chenail, R., Galli, F., Umbach, J., Raulerson, D., Degtyar, A., Bartos, J., Copley, D., McElligott, B., Howard, P., and Bashyam, M. (2005), "Contaminated Billet Study." DOT/FAA/AR-05/16, U.S. Department of Transportation, Federal Aviation Administration.
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- (10) *Engineering Aviation Security Environments Reduction of False Alarms in Computed Tomography- Based Screening of Checked Baggage*, Panel on Reduction of False Alarm Rates in CT Checked Baggage Scans, National Research Council of the National Academies, 2013.
- (11) *Reliability Growth-Enhancing Defense System Reliability*, Panel on Reliability Growth Methods for Defense Systems, Committee on National Statistics, National Research Council of the National Academies, 2015.
- (12) *Academies of Sciences, Engineering, and Medicine. 2016. 2015-2016 Assessment of the Army Research Laboratory: Interim Report.* Washington, DC: The National Academies Press.

## XXVII. PROCEEDINGS AND OTHER UNREFEREED PUBLICATIONS

- (1) Aroian, L.A., Meeker, W.Q., and Kusnitz, A. (1975), Another Look at the Stock Market or How to Recover Past Losses. *Proceedings of the Business and Economic Statistics Section of the American Statistical Association*, 223-226.
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- (41) Meeker, W.Q., Escobar, L.A., and Pascual, F.G. (2021), *Data Sets Used in Statistical Methods for Reliability Data*. These data sets are archived and publicly available on DataShare, Iowa State University's open data repository, and can be accessed at: <https://doi.org/10.25380/iastate.c.5395665>.

## XXVIII. BOOK REVIEWS

- (1) *Statistical Software—A Comparative Review*, by Ivor Francis, in *Technometrics* 24, May 1983, pp. 339-340.
- (2) *Statistical Models and Methods for Lifetime Data*, by J.F. Lawless, and *Applied Life Data Analysis*, by Wayne Nelson, in *Quality Progress* 16, January 1983, pp. 11-12.
- (3) *Optimization in Statistics With a View Toward Applications in Management Science and Operations Research*, (Vol. 19—Studies in Management Sciences), edited by S.H. Zanakakis and J.S. Rustagi, North Holland Publishing Company, 1982, in *Technometrics* 27, May 1984, pp. 207-208.
- (4) *Applied Statistics Algorithms*, edited by P. Griffiths and I. D. Hill, Chichester, U.K.: Ellis Horwood, 1985. *Technometrics* 28, August 1986, pp. 207-208.
- (5) *Statistical Methods in Accelerated Life Testing*, by Reinhard Viertl, Gottingen: Vandenhoech and Ruprecht, 1988. *Metrika* 37, 319-320 .
- (6) *Parameter Estimation in Reliability and Life Span Models*, by A.C. Cohen and B.J. Whitten, New York: Dekker, 1989. *Journal of Official Statistics* 6, 214-215.
- (7) *Accelerated Testing—Statistical Models, Test Plans, and Data Analyses* by W. Nelson, New York: John Wiley and Sons, 1990. *Technometrics*, 33, May 1991, 236-238.
- (8) *System Reliability Theory: Models and Statistics Methods* by Arnljot Hoyland and Marvin Rausand, Wiley & Sons, NY, 1994, *Siam Review* 38, 175-177.
- (9) *Recurrent Events Data Analysis for Product Repairs, Disease Recurrences, and Other Applications*, by Wayne B. Nelson, ASA-SIAM, 2003, *Technometrics*, 45, August 2003, 263-264.
- (10) *System Reliability Theory: Models and Statistics Methods* (Second Edition) by Marvin Rausand and Arnljot Hoyland, Wiley & Sons, NY, 2004, *Journal of Quality Technology* 37, 84-87, January 2005.
- (11) *Life Cycle Reliability Engineering* by Guangbin Yang, Wiley & Sons, NY, 2007, *Journal of Quality Technology* 41, 345-348, July 2008.

- (12) *Applied Reliability*, 3rd edition, by Paul A. Tobias and David C. Trindade. *Journal of Quality Technology* 47, 86-89, January 2015.

#### XXIX. TECHNICAL REPORTS

- (1) Meeker, W., Hahn, G., and Feder, P. (1973), "EXPLOR-A Time-Sharing Tool to Evaluate Properties of Experimental Designs." General Electric Company TIS Report 73CRD331.
- (2) Meeker, W., Hahn, G., and Feder, P. (1974), "EXPLOR-B-A Computer Tool to Evaluate the Properties of Experimental Designs (Batch Version)." General Electric Company TIS Report 74CRD077.
- (3) Meeker, W., Hahn, G., and Feder, P. (1975), "Bias Evaluation Using the Time-Sharing Program EXPLOR II for Evaluating Experimental Designs." General Electric Company TIS Report 75CRD260.
- (4) Meeker, W.Q. (1975), "Sequential Tests of the Hypergeometric Distribution." Union College AES Monograph 7506. (Part I of Ph.D. Dissertation)
- (5) Meeker, W.Q. (1975), "Sequential Tests for 2x2 Contingency Tables." Union College AES Monograph 7507. (Part II of Ph.D. Dissertation)
- (6) Meeker, W.Q., Hahn, G.J., and Feder, P.I. (1976), "Bias Evaluation Using the Batch Program EXPLOR IIB for Evaluating Experimental Designs." General Electric Company TIS Report 76CRD088.
- (7) Meeker, W.Q. (1977), "TSERIES-A User-Oriented Computer Program for Identifying, Fitting, and Forecasting ARIMA Time Series Models (User's Manual)."
- (8) Meeker, W.Q. (1979), "A Bibliography on Accelerated Testing." Department of Statistics, Iowa State University.
- (9) Meeker, W.Q., and Duke, S.D. (1980), "CENSOR-A User-Oriented Computer Program for Life Data Analysis (User's Manual)."
- (10) Meeker, W.Q. (1981), "Accelerated Life Testing-Problems and Prospects." Section 9 of *Experimental Techniques for Investigating the Degradation of Electrical Insulation*, Electric Power Research Institute Technical Report EL-1854.
- (11) Buswell, G.D., Meeker, W.Q., and Myers, D.H. (1984), "STAR-Statistical Reliability Analysis." Computer program user's manual, internal AT&T Bell Laboratories document.
- (12) Meeker, W.Q. (1998), "Graphical Tools for Exploring and Analyzing Data From ARIMA Time Series Models." Software documentation and class notes for Applied Time Series course.
- (13) Meeker, W.Q. and Escobar, L.A. (2005), "SPLIDA (S-PLUS Life Data Analysis)." Software documentation for the SPLIDA package.

#### XXX. SPEECHES, PAPERS, WORKSHOPS, AND SHORT COURSES

- (1) "A Computer Program for Evaluating Experimental Designs." Presented at the 133rd Annual Meeting of the American Statistical Association, New York, NY, December 1973.
- (2) "Sequential Tests of 2x2 Contingency Tables." Presented at the Eastern Regional Meeting of the Institute of Mathematical Statistics and the American Statistical Association, Rochester, NY, May 1975.

- (3) "Optimum Accelerated Life Tests for Weibull and Extreme Value Distributions and Censored Data." Presented at the 135th Annual Meeting of the American Statistical Association, Atlanta, GA, August 1975.
- (4) "Another Look at the Stock Market or How to Recover Past Losses." Presented at the 135th Annual Meeting of the American Statistical Association, Atlanta, GA, August 1975.
- (5) "Optimum Allocation Schemes for Accelerated Tests to Estimate Survival Probability at a Design Stress." Invited talk presented at the 136th Annual Meeting of the American Statistical Association, Boston, MA, August 1976.
- (6) "TSERIES—A User-Oriented Computer Program for Identifying, Fitting, and Forecasting ARIMA Time Series Models." Talk presented at the 137th Annual Meeting of the American Statistical Association, Chicago, IL, August, 1977. Proceedings of the Statistical Computing Section, 1977, pp. 312-315.
- (7) "Asymptotically Optimum Over-Stress Tests to Estimate the Survival Probability at a Condition with a Low Expected Failure Probability." *Technometrics* invited talk presented at the 137th Annual Meeting of the American Statistical Association, Chicago, IL, August, 1977.
- (8) "Evaluating the Properties of Experimental Designs for Fitting Regression Relationships." Invited talk presented at the 21st Annual Fall Technical Conference, co-sponsored by the Chemical Division of the American Society for Quality Control and the Section on Physical Science and Engineering Sciences of the American Statistical Association, Detroit, MI, October 1977.
- (9) "Time Series Capabilities in MINITAB 1978." Presented at the 138th Annual Meeting of the American Statistical Association, San Diego, CA, August 1978.
- (10) "A Conditional Sequential Test for the Equality of Two Binomial Proportions." Presented at the 138th Annual Meeting of the American Statistical Association, San Diego, CA, August 1978.
- (11) "Large Sample Accelerated Life Tests Procedures for Comparing Two Products." Presented at the 139th Annual Meeting of the American Statistical Association, Washington, D.C., August, 1979.
- (12) "Planning Accelerated Life Tests." American Statistical Association, Washington, D.C., August, 1979.
- (13) "Some Practical Problems in Accelerated Life Testing." Presented at the 140th Annual Meeting of the American Statistical Association, Houston, TX, August 1980.
- (14) "CENSOR—A User-Oriented Computer Program for Life Data Analysis." Presented at the 140th Annual Meeting of the American Statistical Association, Houston, TX, August 1980. Proceedings of the Statistical Computing Section, 1980, pp. 298-301.
- (15) "Common Pitfalls in Product Life Analysis." Presented at the 140th Annual Meeting of the American Statistical Association, Houston, TX, August 1980.
- (16) "Practical Accelerated Life Tests." Invited paper presented at the 24th Annual Fall Technical Conference, co-sponsored by the Chemical Division of the American Society for Quality Control and the Section on Physical Science and

Engineering Sciences of the American Statistical Association, Cincinnati, Ohio, October 1980.

- (17) "Life Tests with Units from a Limited-Failure Population." Paper presented at the 141st Annual Meetings of the American Statistical Association, Detroit, MI, August 1981.
- (18) "Planning Accelerated Life Tests with Type II Censored Data." Invited paper presented at the 142nd Annual Meetings of the American Statistical Association, Cincinnati, Ohio, August, 1982.
- (19) "Applied Life Data Analysis." American Statistical Association Continuing Education Short Course, presented at the 142nd Annual Meetings of the American Statistical Association, Cincinnati, Ohio, August, 1982.
- (20) "Books on Statistics for Engineers and Scientists: A Categorized Annotated Bibliography." Presented at the 143rd Annual Meetings of the American Statistical Association, Toronto, Ontario, Canada, August 1983.
- (21) "A Comparison of Accelerated Life Test Plans for Weibull and Lognormal Distributions." Presented at the 143rd Annual Meetings of the American Statistical Association, Toronto, Ontario, Canada, August 1983.
- (22) "Discussion of 'Statistical Methods in Reliability' by J.F. Lawless." Invited discussion presented at the *Technometrics* session at the 143rd Annual Meetings of the American Statistical Association, Toronto, Ontario, Canada, August 1983.
- (23) Meeker, W.Q. "Statistical Aspects of Accelerated Life Testing." Presented at the GTE Symposium on Applications of Statistics, Waltham, MA, October 1983.
- (24) "Improved Simple Accelerated Life Test Plans." Presented at the 144th Annual Meetings of the American Statistical Association, Philadelphia, PA, August 1984.
- (25) "A Survey of Statistical Software for Life Data Analysis." Presented at the 145th Annual Meetings of the American Statistical Association, Las Vegas, NV, August 1985.
- (26) "Software for the Analysis and Presentation of Reliability Data." Presented at the 145th Annual Meetings of the American Statistical Association, Las Vegas, NV, August 1985.
- (27) "How To Plan An Accelerated Life Tests—Some Practical Guidelines." Invited paper presented at the American Society for Quality Control Annual Quality Congress, Anaheim, CA, May 1986.
- (28) "Accuracy of Approximate Confidence Bounds from Interval Censored Data." Presented at the 146th Annual Meetings of the American Statistical Association, Chicago, IL, August 1986.
- (29) "Elements of the Fisher Information Matrix for the Smallest Extreme Value Distribution and Censored Data." Presented at the 146th Annual Meetings of the American Statistical Association, Chicago, IL, August 1986.
- (30) "Software for Life Data Analysis." Presented at the Biannual Meeting of the Pacific Northwest Statistics Group, University of Victoria, British Columbia, April 1987.
- (31) "Assessing Local Influence in Regression Analysis with Censored Data." Presented at the 147th Annual Meetings of the American Statistical Association, San Francisco, CA, August 1987.

- (32) "Using the SAS System to Assess Local Influence in Regression Analysis with Censored Data." Presented at the 13th Annual SAS User's Group International Conference, Orlando, FL, April 1988.
- (33) "Influence Diagnostics for Reliability Data." Invited paper presented at the 148th Annual Meetings of the American Statistical Association, New Orleans, LA, August 1988.
- (34) "Influence Diagnostics for Censored Data." Presented to the North New Jersey Section of the American Statistical Association, October 5, 1988.
- (35) "Influence Diagnostics for Censored Data." Presented at the Mayo Clinic, December 21, 1988.
- (36) "Searching for Life Data Models." Invited paper presented at the Conference on the Interface Between Statistics and Computer Science, April, 1989.
- (37) "Planning Accelerated Life Tests with Nonconstant  $\sigma$ ." Presented at Bellcore, Inc., July 25, 1989.
- (38) "Planning Accelerated Life Tests with Nonconstant  $\sigma$ ." Presented at AT&T Bell Laboratories, July 26, 1989.
- (39) "Accuracy of Approximate Confidence Bounds using Censored Regression Data from Accelerated Life Tests." Presented at the 149th Annual Meetings of the American Statistical Association, Washington, DC, August 1989.
- (40) "Using Degradation Measures to Assess Reliability." Presented at the 149th Annual Meetings of the American Statistical Association, Washington, DC, August 1989.
- (41) "Influence Diagnostics for Censored Regression Data." Invited paper presented at the 149th Annual Meetings of the American Statistical Association, Washington, DC, August 1989.
- (42) "Design and Analysis of Accelerated Life Tests." Invited presentation, the Quality and Productivity Research Conference, Oakland University, November 8, 1989.
- (43) "Influence Diagnostics for Censored Regression Data." Department of Statistics, North Carolina State University, January 12, 1990.
- (44) "Planning Accelerated Life Tests with Nonconstant  $\sigma$ ." Presented at the Department of Statistics, Iowa State University, January 31, 1990.
- (45) "Influence Diagnostics for Censored Regression Data." Department of Statistics and Actuarial Science, University of Waterloo, February 8, 1990.
- (46) "Using Degradation Measures to Assess Reliability." Presented at the Reliability and Product Performance Workshop, Waterloo University, July 24, 1990.
- (47) "Future Directions in Computing for Survival Analysis." Invited paper presented at the Annual Meetings of the American Statistical Association, Anaheim, CA, August 1990.
- (48) "ALTPLAN: A Computer Program for Planning Accelerated Life Tests." Invited paper presented at the Annual Meetings of the American Statistical Association, Anaheim, CA, August 1990.
- (49) "Planning Accelerated Life Tests with Nonconstant  $\sigma$ ." Presented at the Department of Statistics, University of Tennessee, October 4, 1990.



- (50) "Using Degradation Measures to Assess Reliability." Presented at the Oak Ridge National Laboratory, October 5, 1990.
- (51) "Influence Diagnostics for Censored Regression Data." Presented at the Department of Statistics, University of Iowa, October 18, 1990.
- (52) "Using Degradation Measures to Assess Reliability." Paper presented at the Iowa Chapter of American Statistical Association meeting, Drake University, April 5, 1991.
- (53) "An Accelerated Life Test Model Based on Reliability Kinetics." Invited paper presented at the Institute of Mathematical Statistics Special Topics meeting on Industrial Statistics, Philadelphia, PA, June 12, 1991.
- (54) "An Accelerated Life Test Model Based on Reliability Kinetics." AT&T Bell Laboratories, Murray Hill, NJ, July 16, 1991.
- (55) "An Accelerated Life Test Model Based on Reliability Kinetics." Department of Statistics, Iowa State University, September 11, 1991.
- (56) "Influence Diagnostics for Censored Regression Data." Department of Information and Decision Sciences, Arizona State University, November 7, 1991.
- (57) "An Accelerated Life Test Model Based on Reliability Kinetics." Department of Information and Decision Sciences, Arizona State University, November 7, 1991.
- (58) "An Accelerated Life Test Model Based on Reliability Kinetics." Department of Mathematics, Winona State University, January 17, 1992.
- (59) "An Accelerated Life Test Model Based on Reliability Kinetics." Red River Valley Chapter of the American Statistical Association in Fargo, ND, February 19, 1992.
- (60) "Some Business and Industrial Applications of Statistics." seminar for the Department of Mathematics, Moorhead State University, February 19, 1992.
- (61) "Statistical Inference for Industrial Applications: Another Look." at the Deming Seminar for Statisticians, New York City, March 16, 1992.
- (62) "Statistical Inference for Industrial Applications: Another Look." at the Making Statistics More Effective in Business Schools Conference, in Knoxville, Tennessee, June 26, 1992.
- (63) "Planning Accelerated Life Tests with Two or More Experimental Factors." General Electric Corporate Research and Development Center, July 23, 1992.
- (64) "Planning Accelerated Life Tests with Two or More Experimental Factors." Invited paper presented at the Annual meeting of the American Statistical Association, Boston, MA, August 1992.
- (65) "Statistical Intervals." Short course presented at the Annual meetings of the American Statistical Association, August 9, 1992.
- (66) "An Accelerated Life Test Model Based on Reliability Kinetics." Invited paper presented at the National Institute of Statistical Sciences Workshop on Statistical Strategies for Accelerating and Improving the Design of Products and Processes, November 3, 1992.
- (67) "Short Guide to Statistical Intervals." Short course presented at the American Society for Quality Control/American Statistical Association 97th Annual Conference on Applied Statistics, December 14, 1992.

- (68) "A Review of Recent and Future Research in Accelerated Testing." Department of Statistics, University of Hong Kong, December 29, 1992.
- (69) "An Accelerated Life Test Model Based on Reliability Kinetics." University of Hong Kong, December 29, 1992.
- (70) "Influence Diagnostics for Censored Regression Data." National University of Singapore, January 3, 1993.
- (71) "Some Business and Industrial Applications of Statistics." University of Malaya, January 6, 1993.
- (72) "A Review of Recent and Future Research in Accelerated Testing." Invited paper presented at Quality through Engineering Design Conference, Bangalore, India, January 13, 1993.
- (73) "Planning Accelerated Life Tests with Two or More Experimental Factors." Department of Mathematical Sciences, Oakland University, February 6, 1993.
- (74) "Planning Accelerated Life Tests with Two or More Experimental Factors." Department of Statistics and Actuarial Science, University of Waterloo, February 8, 1993.
- (75) "Planning Accelerated Life Tests with Two or More Experimental Factors." Department of Statistics, Iowa State University, March 24, 1993.
- (76) "A Reliability Model for Planning In-Service Inspections for Components Subject to Fatigue Failure." Industrial Statistics Workshop on Reliability and Experimental Design." University of Waterloo, May 26, 1993.
- (77) "Statistical Intervals." Short course presented at Alcoa, Alcoa Center, PA, June 3-4, 1993.
- (78) "A Reliability Model for Planning In-Service Inspections for Components Subject to Fatigue Failure." General Electric Corporate Research and Development Center, Schenectady, NY, July 7, 1993.
- (79) "Statistical Methods for Reliability Data." Series of 5 lectures presented at Universidad Catolica de Chile, Santiago, Chile, July 11-28, 1993.
- (80) "A Reliability Model for Planning In-Service Inspections for Components Subject to Fatigue Failure." Oakland University Conference on Industrial Statistics and Quality Improvement, Oakland University, August 20, 1993.
- (81) "Discussion of 'Statistics Education Fin de Siecle' by David Moore." Invited discussion presented at the Annual Meetings of the American Statistical Association, San Francisco, CA, August, 1993.
- (82) "The Asymptotic Covariance Matrix for Maximum Likelihood Estimators with Models based on Location-Scale Distributions Involving Censoring, Truncation, and Explanatory Variables." Presented at the Annual Meetings of the American Statistical Association, San Francisco, CA, August, 1993.
- (83) "Planning Accelerated Life Tests with Two or More Experimental Factors." University of Northern Illinois, DeKalb, IL, September 10, 1993.
- (84) "Statistical Intervals." Short course presented at the American Society for Quality Control/American Statistical Association Fall Technical Conference, Rochester, NY, October 22, 1993.

- (85) "Accelerated Life Test Methodology." Sematech Statistical Methods Workshop, Austin, TX, February 2, 1994.
- (86) "Statistical Prediction Based on Censored Life Data." General Electric Corporate Research and Development, July 27, 1994.
- (87) "Using Graphics and Simulation to Teach Statistical Concepts." Annual Meetings of the American Statistical Association, Toronto, August 1994.
- (88) "Teaching About Approximate Confidence Regions Based on Maximum Likelihood Estimation." Annual Meetings of the American Statistical Association, Toronto, August 1994.
- (89) "Statistical Prediction Based on Censored Life Data." Department of Statistics and Actuarial Science, University of Waterloo, September 22, 1994.
- (90) "Statistical Prediction Based on Censored Life Data." University of Western Illinois, September 29, 1994.
- (91) "Some Business and Industrial Applications of Statistics." Western Illinois University, September 30, 1994.
- (92) "Statistical Tools for the Rapid Development & Evaluation of High-Reliability Products." Invited paper presented at the Ford Motor Company Conference on Robust Reliability, November 17, 1994.
- (93) "An Accelerated Life Test Model Based on Reliability Kinetics." Louisiana State University, December 5, 1994.
- (94) "Statistical Prediction Based on Censored Life Data." Departamento de Matematicas, Instituto y de Estudios Superiores, Monterrey, Mexico, January 12, 1995.
- (95) "Planning Reliability Studies." Short Course presented sponsored by Centro de Investigacion en Matematicas (CIMAT), at Guanajuato, Mexico, January 16-21, 1995.
- (96) "Methodology for Estimating Nondestructive Evaluation Capability." Presented at the FAA-Sponsored Engine Titanium Consortium Open Forum, Phoenix, AZ, February 2, 1995.
- (97) "Statistical Tools for the Rapid Development & Evaluation of High-Reliability Products." Invited paper presented at the Spring Research Conference, Waterloo, Ontario, June 12, 1995.
- (98) "Statistical Tools for the Rapid Development & Evaluation of High-Reliability Products." General Electric Corporate Research and Development Center, July 24, 1995.
- (99) "Accelerated Degradation Tests: Modeling and Analysis." General Electric Corporate Research and Development Center, Schenectady, NY, July 25, 1995.
- (100) "Accelerated Degradation Tests: Modeling and Analysis." Lockheed-Martin Electronics Park, Syracuse, NY, July 27, 1995.
- (101) "Methodology for Estimating Nondestructive Evaluation Capability." Presented at the 1995 Quantitative Nondestructive Evaluation Conference, Seattle, WA, August 4, 1995.
- (102) "Applications of Statistical Methods to Nondestructive Evaluation." Invited paper presented at the Joint Statistical Meetings, Orlando, FL August 14, 1995.

- (103) "Statistical Prediction Based on Censored Life Data." Presented at the Joint Statistical Meetings, Orlando, FL August 14, 1995.
- (104) "Statistical Methods for Reliability Data." Short Course sponsored by the Swiss Statistical Association, presented at Morschach, Switzerland, September 13-15, 1995.
- (105) "Applications of Statistical Methods to Nondestructive Evaluation." Department of Statistics, University of Missouri, October 4, 1995.
- (106) "Statistical Tools for the Rapid Development & Evaluation of High-Reliability Products." Invited talk presented at the Iowa Conference on Rapid Product Development, March 7, 1996.
- (107) "Assessing the Effect of In-Service Inspections on the Reliability of Degrading Components." Invited talk presented at the Fifth Annual Research Symposium, American Society for Nondestructive Testing, March 19, Norfolk, VA.
- (108) "Statistical Tools for Achieving and Improving Quality and Reliability" Invited presentation at NIBLH workshop on Substitute Heart Valves, Washington, DC, April 30, 1996.
- (109) "Methodology for Estimating Nondestructive Evaluation Capability." Presented at the FAA-Sponsored Engine Titanium Consortium Open Forum, San Francisco, May 9, 1996.
- (110) "Statistical Intervals." Short course presented for the Cleveland section of the American Statistical Association, Cleveland, OH, May 21, 1996.
- (111) "Accelerated Degradation Tests: Modeling and Analysis." Invited talk presented at the Spring Research Conference, Gaithersburg MD, May 29-30, 1996.
- (112) "Accelerated Testing." Short course presented at Centro de Investigacion en Matematicas (CIMAT), at Guanajuato, Mexico, June 4-7, 1996.
- (113) "Tools for the Rapid Development of High-Reliability Products." General Electric CR&D, Schenectady, NY, July 24, 1996.
- (114) "Methodology for Estimating Nondestructive Evaluation Capability." Quantitative Nondestructive Evaluation Conference, in Brunswick, ME, July 29, 1996.
- (115) "Using Graphics and Simulation to Teach Statistical Concepts." Invited talk presented at the Joint Statistical Meetings, Chicago August 5, 1996.
- (116) "Accelerated Degradation Tests: Modeling and Analysis." Invited talk presented at a meeting of the American Society of Civil Engineers, Worcester, MA, August 8, 1996.
- (117) "Software for Life Data Analysis." Invited talk presented at the Fall Technical Conference, Scottsdale AZ, October 24, 1996.
- (118) "Accelerated Degradation Tests: Modeling and Analysis." Invited talk presented at the International Conference on Statistics in Quality and Reliability, Cochin, India December 29, 1996.
- (119) "Statistical Methods for Reliability Data" Short course presented at the Indian Statistical Institute, Bangalore, India, January 3-5, 1997.
- (120) "An Overview of Statistical Methods for Reliability Data." Presented at the Indian Statistical Institute, Deli, India January 6, 1997.

- (121) "Statistical Methods for Reliability Data" Short course presented at the National Cheng-Kung University, Tainan, Taiwan, January 8-10, 1997.
- (122) "Statistical Prediction Based on Censored Life Data." Presented at Academia Sinica, Taipei, Taiwan, January 11, 1997.
- (123) "Statistical Tools for the Rapid Development & Evaluation of High-Reliability Products." Invited talk presented at the Statistical Society of Ottawa Conference on Reliability and Quality, February 12, 1997.
- (124) "Statistical Methods for Probabilistic Design." Invited presentation at the Workshop on Response and Reliability of Stochastic Dynamical Systems, University of Notre Dame, May 23, 1997.
- (125) "Accelerated Tests: Promises and Problems." Presented at General Electric Corporate Research and Development Center, Schenectady, NY, June 4, 1997.
- (126) "Statistical Methods for Reliability Data" Short course presented for the New Jersey Section of American Statistical Association, July 14, 1997.
- (127) "Accelerated Degradation Tests: Modeling and Analysis." Invited talk presented at the International Conference on Applied Statistics in Medical Sciences, Ankara, Turkey, August 14, 1997.
- (128) "Accelerated Aging Tests: Analysis and Test Planning." Invited presentation made at the International Symposium on A Systems Approach to Service Life Prediction of Organic Coatings, Breckenridge, CO, September 15, 1997.
- (129) "Statistical Prediction Based on Censored Life Data." Presented at the Iowa State University Department of Statistics 50th Anniversary Conference, Ames, IA, October 17, 1997.
- (130) "Accelerated Degradation Tests: Modeling and Analysis." Presented at University of Missouri, Department of Statistics, November 21, 1997.
- (131) "Statistical Prediction Based on Censored Life Data." Presented at Louisiana State University, November 24, 1997.
- (132) "Accelerated Testing Workshop." Short course given at Hewlett Packard Ink Jet Supplies, Corvallis, OR, January 7-9, 1998. Repeated six other times in 1998.
- (133) "Accelerated Screening." Invited presentation given at the National Institute of Standards and Technology (NIST) Service Life Prediction meeting, Gaithersburg, MD, April 6-8, 1998.
- (134) "Using Accelerated Tests to Predict Service Life in Highly-Variable Environments." Seminar presented at University of Michigan, Ann Arbor, April 23-25, 1998.
- (135) "Statistical Methods for Reliability Data." Short course presented at the Quality & Productivity Research Conference, Santa Rosa, CA, May 22, 1998.
- (136) "Statistical Methods for Probabilistic Design." Invited plenary address given at the Spring Research Conference, St. John's College, Santa Fe, NM, June 4, 1998.
- (137) "Statistical Methods for Reliability Data." Invited lectures presented at the University of Birmingham, UK, June 14, 1998.
- (138) "Statistical Methods for Reliability Data." Short course presented at the Joint Statistical Meetings, Dallas, TX, August 9, 1998.

- (139) "Accelerated Degradation Tests: Modeling and Analysis." Invited talk presented at the Annual meetings of the Mexican Statistical Association, held at ITESM, Monterrey, Mexico, October 7, 1998.
- (140) "Accelerated Reliability Testing: Concepts, Models, Methods, and Pitfalls." General Electric Company Reliability Council, Cleveland, OH, November 3, 1998.
- (141) "Statistical Methods for Reliability Data", given at Ford Motor Company, Dearborn, MI, November 17, 1998.
- (142) "Accelerated Testing Workshop", given at Ford Motor Company, Dearborn, MI, November 18-20, 1998.
- (143) "Accelerated Degradation Tests: Modeling and Analysis." School of Industrial and Systems Engineering, Georgia Institute of Technology, Atlanta, GA, December 1, 1998.
- (144) "Statistical Prediction Based on Censored Life Data." Atlanta Chapter of the American Statistical Association, December 1, 1998.
- (145) "Accelerated Reliability Testing: Concepts, Models, Methods, and Pitfalls." General Electric Medical Systems, Milwaukee, WI, December 11, 1998.
- (146) "Using Accelerated Tests to Predict Service Life in Highly-Variable Environments." Seminar presented at Los Alamos National Laboratory, Los Alamos, NM, December 17, 1998.
- (147) "Using accelerated tests to predict service life in highly-variable environments." Kuwait University, March 8, 1999.
- (148) "Reliability Data Analysis/ALT Workshop", Ford Motor Company, March 16-18, 1999.
- (149) "Accelerated Reliability Testing: Applications and Pitfalls." Invited talk presented at the Quality and Productivity Research Conference, Schenectady, NY, May 20, 1999.
- (150) "Accelerated Life Tests and Accelerated Degradation Tests." General Electric Corporate Research and Development Center, Schenectady, NY, July 8.
- (151) "Reliability Data Analysis Using S-PLUS." General Electric Corporate Research and Development Center, Schenectady, NY, July 8, 1999.
- (152) "Accelerated Reliability Testing: Applications and Pitfalls." Invited talk presented at an internal reliability conference, United Technologies, East Hartford, CT, July 15, 1999.
- (153) "Reliability Data Analysis and Accelerated Testing." Workshop, Hewlett Packard, Corvallis, OR, July 28-30, 1999.
- (154) "Using Accelerated Tests to Predict Service Life in Highly-Variable Environments." Invited talk presented at the Joint Statistical Meetings, Baltimore, MD, August 8, 1999.
- (155) "Using Accelerated Tests to Predict Service Life in Highly-Variable Environments." Invited talk presented at the International Statistical Institute Meeting, Helsinki, August 17, 1999.
- (156) "Reliability Data Analysis Using S-PLUS." Invited talk presented at the S-PLUS International User Conference, New Orleans, LA, October 21, 1999.

- (157) "Using accelerated tests to predict service life in highly-variable environments." Invited talk presented at the NIST Service Life Prediction Methodology and Metrologies Symposium, Monterey, CA, November 14, 1999.
- (158) "Statistical Methods for Reliability Data." Short course, Agricultural Construction Equipment Conference, Short Course, Davenport, Iowa, March 8, 2000.
- (159) "Statistical Methods for Product Life Analysis." Short course, Universidad Politecnica de Catalunya, Barcelona, Spain, Short Course, March 29-30, 2000.
- (160) "Reliability Data Analysis Using S-PLUS." Invited talk presented at the Statistics-Computing Interface Conference, New Orleans, LA, April 8, 2000.
- (161) "Extracting Information from Field-Failure and Warranty Data Bases: An Important Opportunity." Invited talk presented at a research workshop, University of Waterloo, May 11, 2000.
- (162) "Using Accelerated Test Results to Predict Service Life in Highly-Volatile Environments." Rohm Haas Research Laboratories, Philadelphia, PA, June 8, 2000.
- (163) "Extracting Information from Field-Failure and Warranty Data Bases: An Important Opportunity." Invited talk presented at the National Academy of Sciences Conference on Reliability in the Military, DC, June 10, 2000.
- (164) "Extracting Information from Field-Failure and Warranty Data Bases: An Important Opportunity." Invited talk presented at the Mathematical Methods in Reliability (MMR2000) conference, Bordeaux, July 6, 2000.
- (165) "A Methodology for Predicting Probability of Detection for Ultrasonic Testing." Presented at the Quantitative Nondestructive Evaluation Conference, July 18, 2000, Ames, Iowa.
- (166) "The Evolving Role of Statistics in Business and Industrial Operations." Invited talk presented at the 14th Biannual Meeting of Brazilian Statisticians, Caxambu, Brazil, July 25, 2000.
- (167) "Using Accelerated Test Results to Predict Service Life in Highly-Volatile Environments." Invited talk presented at the 14th Biannual Meeting of Brazilian Statisticians, Caxambu, Brazil, July 27, 2000.
- (168) "Statistical Methods for Reliability Data." Short course, Joint Statistical Meetings, Indianapolis, August 13, 2000.
- (169) "Statistical Methods for Reliability Data", Short course, Fall Technical Conference, Minneapolis, October 11, 2000.
- (170) "Extracting Information from Field-Failure and Warranty Data Bases." Invited talk presented at the Department of the Army AMSAA reliability conference, Aberdeen, MD, October 25, 2000.
- (171) "Using Accelerated Test Results to Predict Service Life in Highly-Volatile Environments." Washington State University, October 30, 2000.
- (172) "Extracting Information from Field-Failure and Warranty Data Bases." Brigham Young University, November 14, 2000.
- (173) "Extracting Information from Field-Failure and Warranty Data Bases." Kansas State University, November 16, 2000.
- (174) "Statistical Methods for Reliability Data." Short course, General Electric Corporate Research and Development Center, November 22, 2000.

- (175) "Use of a Transfer Function Model to Predict Field Reliability from Accelerated Test Data." Hewlett Packard, Corvallis, OR, May 15, 2001.
- (176) "Extracting Reliability Information from Warranty Data Bases." Oregon State University, Corvallis, OR, May 14, 2001.
- (177) "Extracting Reliability Information from Warranty Data Bases." Invited talk presented at the Quality and Productivity Research Conference, Austin Texas, May 23-25, 2001.
- (178) "Accelerated Testing: A Method for Obtaining Reliability Information Quickly." Invited talk presented at the Statistical Society of Canada (SSC), Vancouver, WA, June 11, 2001.
- (179) "Statistical Prediction Based on Censored Life Data." Invited talk presented at the INFORMS International Meeting, Maui, Hawaii, June 17, 2001.
- (180) "Use of Sensitivity Analysis to Assess the Effect of Model Uncertainty in Analyzing Accelerated Life Test Data." Joint Statistical Meetings, Atlanta, Georgia, August 5-9, 2001.
- (181) "Early Detection of Reliability Problems Using Information from Warranty Databases" Invited talk presented at the International Statistical Institute satellite meeting, Keio University, Yokohama, Japan August 20, 2001.
- (182) "Development of Splus Software for Planning Reliability Experiments." Invited talk presented at the S-PLUS User's Conference, Philadelphia, October 18-19, 2001
- (183) "Accelerated Testing: A Method for Obtaining Reliability Information Quickly." Invited talk presented at the Army Conference on Applied Statistics, Santa Fe, October 24-26, 2001
- (184) "Accelerated Destructive Degradation Tests Data, Models, and Analysis." Los Alamos National Laboratory, October 29, 2001.
- (185) "Reliability Concepts and Considerations for New Product Development." presented at Rio Grande Medical Technologies, November 2, 2001.
- (186) "Statistical Methods for Reliability Data." Short course, presented at University of Waterloo, November 19-20, 2001.
- (187) "Statistical Methods for Reliability Data." Short course, presented at Hewlett Packard, Corvallis, OR, December 19-21, 2001.
- (188) "Statistical Methods for Reliability Data." Short course, presented at Hewlett Packard, San Diego, CA, January 7-11, 2001.
- (189) "Use of a Transfer Function Model to Predict Field Reliability from Accelerated Test Data." Plenary address, Spring Research Conference, Ann Arbor Michigan, May 23, 2002.
- (190) "Statistical Methods for Reliability Data." Short course, Spring Research Conference, Ann Arbor Michigan, May 24, 2002.
- (191) "Use of a Transfer Function Model to Predict Field Reliability from Accelerated Test Data." Invited talk, Mathematical Methods in Reliability (MMR2002), Trondheim, Norway, June 18, 2002.



- (192) “Accelerated Destructive Degradation Tests Data, Models, and Analysis”, Invited talk, Mathematical Methods in Reliability (MMR2002), Trondheim, Norway, June 19, 2002.
- (193) “Use of a Transfer Function Model to Predict Field Reliability from Accelerated Test Data.” Taipei Symposium on Statistics, Taipei, Taiwan, July 9, 2002.
- (194) “Statistical Methods for Reliability Data.” Short course, Tunghai University, Taichung, Taiwan, July 11-13, 2002.
- (195) “Accelerated Destructive Degradation Tests Data, Models, and Analysis”, Tunghai University, Taichung, Taiwan, July 16, 2002.
- (196) “Extracting Reliability Information from Warranty Data Bases.” Tunghai University, Taichung, Taiwan, July 16, 2002.
- (197) “Statistical Methods for Reliability Data.” Short course, presented at General Electric Global Research Center, Schenectady, NY, July 29, 2002.
- (198) “Statistical Methods for Reliability Data.” Short course, presented at Joint Statistical Meetings, New York, August 11, 2002.
- (199) “Statistical Methods for Reliability Data.” Short course, presented at Hewlett Packard, Corvallis, OR, August 20-22, 2002.
- (200) “Reliability, the Other Dimension of Quality.” Youden Memorial Address, Fall Technical Conference, Valley Forge, PA, October 18, 2002.
- (201) “Accelerated Degradation Tests: Modeling and Analysis.” Los Alamos National Laboratory, October 29, 2002.
- (202) “Statistical Methods for Reliability Data.” Short course, presented at Mabe Company, Queretaro, Mexico, November 20, 2002.
- (203) “Use of a Transfer Function Model to Predict Field Reliability from Accelerated Test Data.” presented sponsored by Centro de Investigacion en Matematicas (CIMAT), at Guanajuato, Mexico, November 21, 2002.
- (204) “Statistical Methods for Reliability Data.” Short course, presented at Hewlett Packard, San Diego, CA, December 16-18, 2002.
- (205) “Statistical Methods for Reliability Data.” Short course, International Conference on Ranking and Selection, Multiple Comparisons, Reliability, and Their Applications, Chennai, India, December 27, 2002.
- (206) “Use of a Transfer Function Model to Predict Field Reliability from Accelerated Test Data.” Plenary address, International Conference on Ranking and Selection, Multiple Comparisons, Reliability, and Their Applications, Chennai, India, December 30, 2002.
- (207) “Reliability, the Other Dimension of Quality.” Keynote Address, International Conference Statistics in Industry and Business, Cochin, India, January 2, 2003.
- (208) “Methods for Product Life Analysis and Reliability.” Short course, Sponsored by the National Institute for Quality and Reliability and the Indian Statistical Institute, Bangalore, India, January 7-9, 2003.
- (209) “Reliability, the Other Dimension of Quality.” National Institution for Quality and Reliability, Bangalore Branch, Bangalore, India, January 8, 2003.

- (210) “Statistical Methods for Reliability Data.” Short course, presented at GE India Technology Centre, Bangalore, India, January 10, 2003.
- (211) “Accelerated Destructive Degradation Tests Data, Models, and Analysis”, Universidade Federal de São Carlos, Brazil, February 20, 2003.
- (212) “Using Accelerated Life Tests Results to Predict Field Reliability.” Universidade Estadual de Campinas, Brazil, February 21, 2003.
- (213) “Statistical Methods for Reliability Data.” Short course, Workshop in Survival and Reliability Analysis, Campinas, Brazil, February 21-22, 2003.
- (214) “Use of Sensitivity Analysis to Assess the Effect of Model Uncertainty in Analyzing Accelerated Life Test Data.” Escola de Modelos de Regressão, Associação Brasileira de Estatística, Conservatória, Brazil, February 24, 2003.
- (215) “Statistical Methods for Reliability Data.” Short course, Agricultural, Industrial, Construction Equipment Quality Conference, Davenport, Iowa, March 3, 2003.
- (216) “Statistical Methods for Reliability Data.” Short course, General Motors, Warren MI, March 6, 2003.
- (217) “Reliability Data Analysis Experiences.” Rochester Institute of Technology, April 17, 2003.
- (218) “Using Accelerated Life Tests Results to Predict Field Reliability.” Workshop in Survival and Reliability Analysis, Rochester Chapter of the American Society for Quality, April 17, 2003.
- (219) “Reliability, the Other Dimension of Quality.” International Conference on Reliability and Survival Analysis, Columbia, South Carolina, May 22, 2003.
- (220) “Statistical Methods for Reliability Data.” Short course, presented at AMSAA, Aberdeen Proving Grounds, MD, July 14-16, 2003.
- (221) “Experiences in the Analysis of Reliability Data.” presented at General Electric Global Research Center, Schenectady, NY, July 29, 2003.
- (222) “Accelerated Destructive Degradation Test Planning.” Invited talk presented at Joint Statistical Meetings, New York, August 2003.
- (223) “Using Accelerated Life Tests Results to Predict Field Failures.” Presented at the International Statistical Institute Meeting, Berlin, Germany, August 20, 2003.
- (224) “Statistical Methods for Reliability Data.” American Statistical Association Traveling Short courses, presented New York Metro Section of ASA on September 25, CT Section of ASA September 26, and RI Section of ASA on September 27, 2003.
- (225) “Statistical Methods for Accelerated Testing.” Short course, HP, Corvallis, OR, January 5-7, 2004.
- (226) “Statistical Methods for Reliability Data.” Short course, Boeing Corporation, Seattle, WA, March 15-17, 2004.
- (227) “Using Accelerated Life Tests Results to Predict Field Reliability.” Seminar presented at IBM T.J. Watson Research Center, Yorktown Heights, NY, April 5, 2004.
- (228) “Bayesian Optimal Planning for Accelerated Life Tests.” Invited talk presented at the International Society for Bayesian Analysis, Vina Del Mer, Chile, May 26, 2004.

- (229) "Using Accelerated Tests to Predict Service Life of Organic Materials Subjected to Outdoor Weathering." Invited talk presented at the Degradation Modeling and Analysis Conference, St. Petersburg, Russia, June 3-11, 2004.
- (230) "Comments on Accelerated Demonstration Testing." Invited talk, Mathematical Methods in Reliability Conference (MMR2004), Santa Fe, NM, June 21, 2004 (joint with Harry Martz).
- (231) "Use of a Transfer Function Model to Predict Field Reliability from Accelerated Test Data." Plenary address, Mathematical Methods in Reliability Conference (MMR2004), Santa Fe, NM, June 23, 2004.
- (232) "Using Accelerated Tests to Predict Service Life of Organic Materials Subjected to Outdoor Weathering." Invited talk, Mathematical Methods in Reliability Conference (MMR2004), Santa Fe, NM, June 23, 2004.
- (233) "Using Accelerated Tests to Predict Service Life of Organic Materials Subjected to Outdoor Weathering" Presentation at the Service Life Prediction meeting, National Institute of Standards and Technology, July 26, 2004.
- (234) "Statistical Methods for Accelerated Testing." Short course, HP, Corvallis, OR, August 2-4, 2004.
- (235) Invited discussion of "Failure Amplification Method: An Information Maximization Approach to Categorical Response Optimization," by V. Roshan Joseph and C. F. J. Wu., Joint Statistical Meetings, Toronto, August 7-12
- (236) "Statistical Methods for Accelerated Testing." Short course, HP, Vancouver, WA, August 16-18, 2004.
- (237) "Use of Graphics and Simulation to Better Understand Concepts of Reliability Data Analysis." Invited talk, JMP User's Conference, Cary, NC, August 29-31, 2004.
- (238) "Statistical Methods for Reliability Data." Invited tutorial, presented at the 8th International Conference on Probability Methods Applied to Power Systems, Ames, IA, September 13, 2004.
- (239) "Use of a Transfer Function Model to Predict Field Reliability from Accelerated Test Data." Seminar presented at the General Electric Global Research Center, Schenectady, NY, September 15, 2004.
- (240) "Statistical Methods for Accelerated Testing." Short course, 3M Company, St. Paul, MN, October 12-14, 2004.
- (241) "Statistical Methods for Accelerated Testing." Short course, Marine Corps Program Development, Fallbrook, CA, November 22-24, 2004.
- (242) "Statistical Methods for Reliability Data." Short course, Agricultural Construction Equipment Conference, Short Course, Davenport, Iowa, March 8, 2005.
- (243) "Statistical Methods for Product Life Analysis." Short course, Proctor and Gamble, Mason, OH, March 15-17, 2005.
- (244) "Advanced Statistical Methods for Assessment of Probability of Detection." Presented at the International Statistical Institute Meeting, Sydney, Australia, April 11, 2005.
- (245) "Using Simulation and Graphics as an Aid in Planning Complicated Experiments." International Society for Business and Industrial Statistics 4 Conference, Palm Cove (Australia), April 15, 2005

- (246) "A Bivariate Regression Model for Assessment of Multizone Ultrasonic POD." Quantitative Nondestructive Evaluation Conference, in Brunswick, ME, August 2, 2005.
- (247) "Using Accelerated Tests to Predict Service Life of Materials Subjected to Outdoor Weathering." Joint Statistical Meetings, Minneapolis, MN, August 8, 2005.
- (248) "Development of a Test Plan for Repeated Measures Degradation Data." Design and Analysis of Experiments Conference, Santa Fe, NM, October 13, 2005.
- (249) "Using Simulation and Graphics as an Aid in Planning Complicated Experiments." Keynote address, S-PLUS User's Conference, Princeton, NJ, October 27, 2005.  
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- (250) "Statistical Methods for Reliability Data." Short course, presented at Eaton Corporation, Pittsburgh, PA, November 21-23, 2005.
- (251) "Statistical Methods for Reliability Data." Short course, presented at Eaton Corporation, Milwaukee, WI, December 5-7, 2005.
- (252) "Statistical Methods for Reliability Data." Short course, presented at National University of San Marcos, Lima Peru, January 9-10, 2006.
- (253) "Using Simulation and Graphics as an Aid in Planning Complicated Experiments." International Society for Business and Industrial Statistics 5 Conference, Lima, Peru, January 12, 2006.
- (254) "Statistical Methods for Accelerated Testing." Short course, presented at Hewlett Packard, Singapore, May 9-11, 2006.
- (255) "Using Accelerated Life Tests Results to Predict Field Reliability." Plenary talk at the International Conference on Accelerated Life Models, Angers, France, May 23, 2006.
- (256) "Using Simulation and Graphics as an Aid in Planning Complicated Experiments." Plenary address, Joint Research Conference, Knoxville, TN, June 8, 2006.
- (257) "An Algorithm for Screening Sonic IR Movies." Quantitative Nondestructive Evaluation Conference, in Portland, OR , August 1, 2006.
- (258) "Sensitivity Analysis to Assess the Effects of Misses in the Estimation of POD from Field Inspection Data." Quantitative Nondestructive Evaluation Conference, in Portland, OR , August 1, 2006.
- (259) "Application of Statistical Methods for Assessment of Components of Variance in Nondestructive Evaluation Experiments." Quantitative Nondestructive Evaluation Conference, in Portland, OR , August 1, 2006.
- (260) "Using Simulation and Graphics as an Aid in Planning Complicated Experiments." Invited talk presented at Joint Statistical Meetings, Seattle, WA, August 7, 2006.
- (261) "Statistical Methods for Accelerated Testing." Short course, presented at Hewlett Packard, Corvallis, OR, August 14-16, 2006.
- (262) "Bayesian Optimal Planning for Accelerated Life Tests." Invited talk presented at the International Society for Bayesian Analysis, *Technometrics* Invited Paper, INFORMS, Pittsburgh, November 7, 2006.

- (263) "Reliability Data Analysis Experiences." Invited presentation to the Chicago Chapter of the American Statistical Association, November 14, 2006.
- (264) "A Statistical Model for Linking Field and Laboratory Exposure Results for a Model Coating." Invited talk presented at the Fourth International Conference on Service Life Prediction, Key Largo, FL, Dec 4, 2006.
- (265) "Probability of Detection Tutorial." Invited presentation at the American Society of Nondestructive Testing Research Conference, March 29, 2007, Orlando, FL.
- (266) "Using Accelerated Life Tests Results to Predict Field Reliability." University of Iowa Department of Statistics, March 22, 2007.
- (267) "Using Life Data to Assess the Risk of Product Failure." Iowa Chapter of the American Statistical Association, April 18, 2007.
- (268) "Using Simulation and Graphics as an Aid in Planning Complicated Experiments." Delaware Chapter of the American Statistical Association, April 27, 2007.
- (269) "Optimum Step-Stress Accelerated Life Test Plans for Log-Location-Scale Distributions." Contributed talk, Spring Research Conference, Ames, Iowa, May 21, 2007.
- (270) "Some Thoughts and Comments on the Use of Competing Risks Models in Reliability Applications." Contributed talk, Spring Research Conference, Ames, Iowa, May 21, 2007.
- (271) "Analysis of Window-Observation Recurrence Data." Invited talk, Quality and Productivity Research Conference, Santa Fe, NM, June 5, 2007.
- (272) "Using Life Data to Assess the Risk of Product Failure." Los Alamos National Laboratory, June 13, 2007.
- (273) "Using Life Data to Assess the Risk of Product Failure." Invited talk, Mathematical Methods in Reliability (MMR2007), Glasgow, July 2, 2007.
- (274) "Determination of Sonic IR Experimental Conditions and Estimation of POD for Cracks in Fan Blades" Invited talk, Quantitative Nondestructive Evaluation Conference, in Golden, CO, July 24, 2007.
- (275) "Using Life Data to Assess the Risk of Product Failure." Invited talk, International Symposium on Business and Industrial Statistics-2007, University of Azores, Sao Miguel Island, Ponta Delgada, Azores, Portugal, August 20, 2007.
- (276) "The Effective Industrial Statistician: Necessary Knowledge and Skills." Invited talk, International Symposium on Business and Industrial Statistics-2007, University of Azores, Sao Miguel Island, Ponta Delgada, Azores, Portugal, August 21, 2007.
- (277) "Statistical Issues Related to Product Reliability Assessment Traditional, Current, and Future." Invited presentation, Materials State Awareness Workshop, National Materials Advisory Board, National Academies, Woods Hole, MA, September 25, 2007.
- (278) "Using Life Data to Assess the Risk of Product Failure." Keynote address, the 7th Annual Hawaii International Conference on Statistics, Mathematics and Related Fields, Honolulu, Hawaii, January 17, 2008.

- (279) “Statistical Methods for Reliability Data.” Short course, Microsoft Corporation, Redmond, WA, March 18-20, 2008.
- (280) “Statistical Methods for Accelerated Testing.” Short course, HP, Vancouver, WA, May 12-14, 2008.
- (281) “Accelerated Destructive Degradation Test Planning.” Plenary address, International Conference on Accelerated Life Testing (ALT2008), Reliability-based Analysis and Design ALT2008 Conference, University Victor Segalen Bordeaux 2, June 9, 2008.
- (282) “Reliability Data Analysis Experiences.” Keynote address at the European Network on Business and Industrial Statistic Workshop on Reliability data analysis and testing: State of Art, Vrije Universiteit, Brussel, June 16, 2008.
- (283) “Prediction of Remaining Life of Power Transformers Based on Left Truncated and Right Censored Lifetime Data.” Invited talk, International Symposium on Business and Industrial Statistics-2008, Prague, July 3, 2008.
- (284) “Joint Estimation of the Flaw Size Distribution and POD Function.” Invited talk Quantitative Nondestructive Evaluation Conference, Chicago, IL, July 23, 2008.
- (285) “Using Life Data to Assess the Risk of Product Failure.” Invited talk, Joint Statistical Meetings, Denver, CO, August 4, 2008.
- (286) “Reliability Data Analysis Experiences.” Short course at the 2008 Symposium of Statistics, Universidad Nacional de Colombia, Cartagena, August 14-15, 2008.
- (287) “Statistical Methods for Accelerated Testing.” Short course, HP, Corvallis, OR, August 20-22, 2008.
- (288) Panel discussion on “Innovative Approaches to Early Warning Detection” at the 4th Annual Warranty Management Summit, Atlanta, GA, Sept 16, 2008.
- (289) Meeker, W.Q. (2008), Panel Discussion on “The Future of Industrial Statistics.” *Technometrics* invited paper session, Fall Technical Conference, Phoenix, AZ, October 10, 2008.
- (290) “Statistical Methods for Reliability Data” Short course presented at the National Cheng-Kung University, Tainan, Taiwan, December 10, 2008.
- (291) “Using Accelerated Life Tests Results to Predict Field Reliability.” National Cheng-Kung University, Tainan, Taiwan, December 11, 2008.
- (292) “Statistical Methods for Reliability Data.” Short course, Army Test and Evaluation Center, Aberdeen Proving Grounds, MD, January 6-8, 2009.
- (293) “Reliability Data Analysis Experiences.” Workshop presented at SAS Institute, January 29, 2009.
- (294) “Using Accelerated Life Tests Results to Predict Field Reliability.” University of Michigan, March 13, 2009.
- (295) “Exploring Trends in the Statistical Assessment of Product Reliability with JMP.” SAS Institute, Cary, NC, March 20, 2009.
- (296) “Prediction of Remaining Life of Power Transformers Based on Left Truncated and Right Censored Lifetime Data.” Plenary address, 41èmes Journées de Statistique, Bordeaux, May 27, 2009.

- (297) “Statistical Methods for Reliability Data.” Short course, Quality and Productivity Research Conference, Yorktown Heights, NY, June 2, 2009.
- (298) “Using Accelerated Life Tests Results to Predict Field Reliability.” Applied Statistics Group, Boeing Corporation, Belview WA, June 9-10, 2009.
- (299) “Reliability Data Analysis for Engineers.” Short course, Boeing Corporation, Belview WA, June 9-10, 2009.
- (300) “Using Accelerated Life Tests Results to Predict Field Reliability.” General Electric Reliability Council, June 17, 2009.
- (301) “Warranty Prediction Based on Auxiliary Use-rate Information.” Plenary address, Mathematical Methods in Reliability (MMR2009), Moscow, June 26, 2009.
- (302) “Prediction of Remaining Life of Power Transformers Based on Left Truncated and Right Censored Lifetime Data.” Plenary address, International Conference on the Interface Between Statistics and Engineering, Beijing University of Technology, Beijing, July 14, 2009.
- (303) “Statistical Methods for Reliability Analysis.” Short course, East China Normal University, Minhang Campus, Shanghai, July 16-17, 2009.
- (304) “Using Accelerated Life Tests Results to Predict Field Reliability.” Plenary address, Conference of the Chinese Association for Field Statistics, Shanghai, July 20, 2009.
- (305) “Using Accelerated Life Tests Results to Predict Field Reliability.” Center for Quality Science, Chinese Academy of Science, Beijing, July 22, 2009.
- (306) “Reliability Data Analysis Experiences.” Workshop, Center for Quality Science, Chinese Academy of Science, Beijing, July 22, 2009.
- (307) “Using a Bayesian Model to Jointly Estimate the Flaw Size Distribution and the POD Function.” Quantitative Nondestructive Evaluation Conference, Kingston, RI, July 28, 2009.
- (308) “Reliability Data analysis Experiences.” Short Course, Joint Statistical Meetings, Washington, DC, August 3, 2009.
- (309) “Using Accelerated Life Tests Results to Predict Field Reliability.” Invited talk, Joint Statistical Meetings, Washington, DC, August 4, 2009.
- (310) “Exploring Reliability.” JMP Explorers Seminar Series, Alexandria, VA August 11, 2009.
- (311) “Reliability Data Analysis for Engineers.” Short course, Boeing Corporation, Belview WA, August 17-18, 2009.
- (312) “Using Accelerated Life Tests Results to Predict Field Reliability.” Plenary address, European Safety and Reliability Conference (ESREL 2009), Prague, September 10, 2009.
- (313) “Exploring Reliability.” JMP Explorers Seminar Series, Santa Clara, CA, September 18, 2009.
- (314) “Using Accelerated Life Tests Results to Predict Field Reliability.” *Technometrics* invited paper session, Fall Technical Conference, Indianapolis, IN, October 8, 2009.

- (315) “Degradation and Structural Health Monitoring.” Invited presentation at the Workshop on Advances on Degradation and Accelerated Life-Testing Models with Applications to Reliability and Survival Analysis, Université de Technologie de Compiègne, Paris, November 13, 2009.
- (316) “Warranty Prediction Based on Auxiliary Use-rate Information.” Seminar, Department of Statistics, Iowa State University, November 30, 2009.
- (317) “Statistical Methods for Reliability Data.” Short course presented at National Cheng-Kung University, Tainan, Taiwan, March 17, 2010.
- (318) “Warranty Prediction Based on Auxiliary Use-rate Information.” National Cheng-Kung University, Tainan, Taiwan, March 22, 2010.
- (319) “Warranty Prediction Based on Auxiliary Use-rate Information.” Georgia Institute of Technology, Department of Industrial Engineering, April 8, 2010.
- (320) Invited tutorial on “Basic Concepts and Methods for Reliability Data Analysis.” Invited talk International Reliability Physics Symposium, Anaheim, CA, May 2, 2009.
- (321) “Warranty Prediction Based on Auxiliary Use-rate Information.” Keynote lecture at the International Conference on Accelerated Life Testing, Reliability-based Analysis and Design (ALT2010), Clermont-Ferrand, France, May 19, 2010.
- (322) “Statistical Methods for Product Life Analysis.” Short course, Medtronic, Minneapolis, MN, June 7-9, 2010.
- (323) “Automatic Crack Detection Algorithm for Vibrothermography Sequence-of-Images Data.” Special ASMBI discussion paper presented at the international symposium sponsored by the International Society for Business and Industrial Statistics (ISBIS 2010), Portoroz, Slovenia, July 7, 2010.
- (324) “Warranty Prediction Based on Auxiliary Use-rate Information.” Invited talk presented at the international symposium sponsored by the International Society for Business and Industrial Statistics (ISBIS 2010), Portoroz, Slovenia, July 8, 2010.
- (325) Workshop on Probability of Detection, presented at the Quantitative Nondestructive Evaluation Conference, San Diego, CA, July 17-18, 2010.
- (326) “Physical Model Assisted Probability of Detection in Nondestructive Evaluation for Detecting Flaws in Titanium Forgings.” Quantitative Nondestructive Evaluation Conference, San Diego, CA, July 20, 2010.
- (327) “An Automatic Crack Detection Algorithm for Vibrothermography Sequence-of-Images Data.” Presented at the Joint Statistical Meetings, Vancouver, B.C., August 3, 2010.
- (328) “Quantifying POD from Multiple Inspections and Joint Estimation of Signal and Crack-Size Distributions.” Invited talk presented at the Joint Statistical Meetings, Vancouver, B.C., Canada, August 4, 2010.
- (329) “Statistical Methods for Product Life Analysis.” Short course, Medtronic, Minneapolis, MN, October 14-15, 2010.
- (330) “Reliability Data Analysis Experiences”, Short course, Fall Technical Conference, Birmingham, AL, October 9, 2010.



- (331) “Exploring Reliability.” JMP Explorers Seminar Series, Frankfurt, Germany, October 28, 2010.
- (332) “Experiences and Pitfalls of Accelerated Testing.” Invited talk given at General Electric Global Research, Niskayuna, NY, October 21, 2010.
- (333) “Warranty Prediction Based on Auxiliary Use-rate Information.” Invited talk given at National Chaio Tung University and National Tsing Hua University Joint Workshop on Industrial Statistics, December 21, 2010.
- (334) “An Automatic Crack Detection Algorithm for Vibrothermography Sequence-of-Images Data.” Invited talk given at national Tsing Hua University, December 22, 2010.
- (335) “Phased Array Ultrasonics Analysis Software and POD.” Invited talk, American Society for Nondestructive Testing Spring Conference, San Francisco, CA, March 22, 2011
- (336) “Warranty Prediction Based on Auxiliary Use-rate Information.” Presented at the Department of Statistics, University of California, Riverside, April 12, 2011.
- (337) “Exploring Reliability.” JMP Explorers Seminar Series, Seattle, WA, April 27, 2011.
- (338) “Exploring Reliability.” JMP Explorers Seminar Series, Worchester, MA, May 4, 2011.
- (339) “A Comparison of Maximum Likelihood and Median Rank Regression for Weibull Estimation.” Invited talk, Quality and Productivity Research Conference, Roanoke, VA, June 9, 2011.
- (340) “Field-Failure Predictions Based on Failure-time Data with Dynamic Covariate Information.” Plenary address, Mathematical Methods in Reliability Conference (MMR2011), Beijing, China, June 21, 2011.
- (341) “Automatic Crack Detection Algorithm for Vibrothermography Sequence-of-Images Data.” Center for Quality Science, Chinese Academy of Science, Beijing, June 27, 2011.
- (342) “R. B. Thompson’s Contributions to Model Assisted Probability of Detection.” 2011 Quantitative Nondestructive Evaluation Conference, Burlington, VT, July 18, 2011.
- (343) “Field-Failure Predictions Based on Failure-time Data with Dynamic Covariate Information.” Joint Statistical Meetings, Miami, FL, August 3, 2011.
- (344) “The Cautious Use of Bayesian Methods in Reliability Data Analyses.” Invited talk, Fall Technical Conference, Kansas City, MO, October 13, 2011.
- (345) “Prediction of Remaining Life of a Fleet of Assets Based on Left Truncated and Right Censored Lifetime Data.” Invited talk, Army Conference on Applied Statistics, Annapolis, MD, October 20 2011.
- (346) “Reliability Data Analysis and Test Planning.” Workshop presented at the Indian Statistical Institute, Bangalore, India, 19 December 2011.
- (347) “Warranty Prediction Based on Auxiliary Use-rate Information.” Invited talk given at the International Conference on Quality and Reliability Engineering (ICQRE - 2011), Bangalore, India, 20 December 2011.

- (348) "Field-Failure Predictions Based on Failure-time Data with Dynamic Covariate Information." General Electric Global Research Center, Bangalore, India December 22, 2011.
- (349) "Exploring Reliability." JMP Explorers Seminar Series, Detroit, MI, March 1, 2012.
- (350) "Exploring Reliability." JMP Explorers Seminar Series, London, England, March 13, 2012.
- (351) "Exploring Reliability." JMP Explorers Seminar Series, Colgone, Germany, March 14, 2012.
- (352) "Accelerated Degradation Tests: Modeling and Analysis." Proctor and Gamble, May 23, 2012.
- (353) "Methods for Planning Accelerated Repeated Measures Degradation Tests." Proctor and Gamble, May 23, 2012.
- (354) "Simulation-Based Methods for Planning Nonlinear Accelerated Repeated Measures Degradation Tests." Proctor and Gamble, May 23, 2012.
- (355) "Methods for Planning Accelerated Repeated Measures Degradation Tests." Invited talk, International Conference on Accelerated Life Testing (ALT2012), Rennes, France. June 4, 2012 in Rennes, France.
- (356) "Exploring Reliability." JMP Explorers Seminar Series, Minneapolis, MN, June 12, 2012.
- (357) "Statistical Methods for Degradation Data with Dynamic Covariates and an Application to Outdoor Weathering Prediction." International symposium sponsored by the International Society for Business and Industrial Statistics (ISBIS 2012), Bangkok. June 18, 2012
- (358) "The Cautious Use of Bayesian Methods in Reliability Data Analyses." Second International Conference on the Interface between Statistics and Engineering (2nd ICISE.) Department of Statistics, National Cheng Kung University, Tainan, Taiwan, June 23, 2012
- (359) "Methods for Planning Accelerated Repeated Measures Degradation Tests." Workshop on Industrial Statistics, National Center of Theoretical Science, National Tsing-Hua University, Hsin-Chu, Taiwan. June 26, 2012.
- (360) "Field-Failure Predictions Based on Failure-time Data with Dynamic Covariate Information." International Conference on Statistical Models and Methods for Reliability and Survival Analyses and their Validation, Bordeaux France. July, 4 2012.
- (361) "Methods for Planning a Statistical POD Study." 2012 Quantitative Nondestructive Evaluation Conference, Denver, CO. July 19, 2012.
- (362) "Statistical Methods for Degradation Data with Dynamic Covariates and an Application to Outdoor Weathering Prediction." Joint Statistical Meetings, San Diego. August 1, 2012
- (363) "Statistical Methods for Degradation Data with Dynamic Covariates and an Application to Outdoor Weathering Prediction." Los Alamos National Laboratory. August 13, 2012.

- (364) Short Course on “Statistical Methods for Probability of Detection,” presented for engineers from IHI corporation at the Iowa State University Center for Non-destructive Evaluation, Ames, IA, November 5-9, 2012.
- (365) “Field-Failure Predictions Based on Failure-time Data with Dynamic Covariate Information.” Department of Statistics, Iowa State University. November 26, 2012.
- (366) “Statistical Methods for Product Life Analysis and Accelerated Testing.” Short course, Proctor and Gamble, Mason, OH, January 22-23, 2013.
- (367) “The Cautious Use of Bayesian Methods in Reliability Data Analyses.” Invited Tutorial, Reliability and Maintainability Symposium (RAMS 2013), Orlando, FL, January 29, 2013.
- (368) “Reliability Meets Big Data: Opportunities and Challenges” Invited talk at the First Annual Stu Hunter Conference on Applied Statistics, Amsterdam. March 14, 2013.
- (369) Short Course on “Statistical Methods for Probability of Detection,” presented at the Iowa State University Center for Nondestructive Evaluation, Ames, IA, April 17, 2013.
- (370) “The Cautious Use of Bayesian Methods in Reliability Data Analyses.” Webinar, sponsored by the American Statistical Association Section on Quality and Productivity and Section on Physical and Engineering Sciences, May 17, 2013.
- (371) “Statistical Methods for Product Life Analysis and Accelerated Testing.” Short course, San Disk, Milpatis, CA, May 28-30, 2013.
- (372) “Field-Failure Predictions Based on Failure-time Data with Dynamic Covariate Information.” Invited talk, Quality and Productivity Research Conference, (QPRC 2013), General Electric Global Research, Niskayuna, NY, June 6, 2013.
- (373) “Estimating Failure-Time Distributions and Predicting Field Failures with Censored Data and Unknown Retirement Times.” Invited talk, Spring Research Conference, UCLA, June 22, 2013.
- (374) “Statistical Methods for Degradation Data with Dynamic Covariates and an Application to Outdoor Weathering Prediction.” Invited talk, International Conference on Mathematical Methods in Reliability (MMR2013), Stellenbosch, South Africa. July 2013.
- (375) “A Bayesian Approach to Nondestructive Inspection Test Planning with Hit-Miss Data” 2013 Quantitative Nondestructive Evaluation Conference, Baltimore, MD, July 24, 2013.
- (376) “Quantile POD Estimation for Nondestructive Inspection with Hit-Miss Data” 2013 Quantitative Nondestructive Evaluation Conference, Baltimore, MD, July 24, 2013.
- (377) “Experiences in Reliability Data Analysis.” Invited talk presented at Hong Kong City University, August 22, 2013.
- (378) “Risk Assessment Based on Limited Field Data.” Invited talk given at the International Statistical Institute Satellite Meeting on Statistics in Business, Industry and Risk Management, Hong Kong City University, Hong Kong August 24, 2013.

- (379) “Pitfalls of Accelerated Tests.” *Journal of Quality Technology* invited paper, Fall Technical Conference, San Antonio, TX, October 18, 2013.
- (380) “Statistical Methods for Product Life Analysis and Accelerated Testing.” Short course, 3M, St. Paul, MN, October 23-25, 2013.
- (381) “Statistical Methods for Product Life Analysis and Accelerated Testing.” Short course, Proctor and Gamble, Frankfurt, Germany, November 25-26, 2013.
- (382) “Statistical Methods for Product Life Analysis and Accelerated Testing.” Short course, HP, Corvallis, OR, December 16-18, 2013.
- (383) “Experiences in Reliability Data Analysis.” Invited Tutorial, Reliability and Maintainability Symposium (RAMS 2014), Colorado Springs, CO, January 28, 2014.
- (384) “Field-Failure Predictions Based on Failure-time Data with Dynamic Covariate Information.” Tianjin University, Tianjin, China, March 19, 2014.
- (385) “Statistical Methods for Product Life Analysis and Accelerated Testing.” Short course, Tianjin University, Tianjin, China, March 20-22, 2014.
- (386) “Reliability Meets Big Data: Opportunities and Challenges.” Plenary lecture at the 5th International Conference on Accelerated Life Testing and Degradation Models (ALT2014), Université de Pau et des Pays de l’Adour, France, June 11-13, 2014.
- (387) “Using the Block Minima Method to Estimate Pipeline Thickness.” Invited talk given at the Workshop on Industrial Statistics, National Center of Theoretical Science, National Tsing-Hua University, Hsin-Chu, Taiwan, June 2014.
- (388) “Statistical Methods for Degradation Data with Dynamic Covariates and an Application to Outdoor Weathering Prediction.” Invited talk given at the Institute of Mathematical Statistics Asia Pacific Rim Meeting, Taipei, Taiwan, June 2014.
- (389) “Automated Flaw Detection for NDE Images.” 2014 Quantitative Nondestructive Evaluation Conference, Boise, ID, July 21, 2014.
- (390) “Field Failure Prediction Based on Multi-Level Repair and System Usage Information.” Invited talk given at the Joint Statistical Meetings, August 4, 2014, Boston, MA.
- (391) “Statistical Methods for Degradation Data with Dynamic Covariates and an Application to Outdoor Weathering Prediction.” Invited talk given at the Conferencia Internacional de Calidad y Estadística Aplicada, la Universidad de Piura Lima, Peru, August 2014.
- (392) “Reliability Data Analysis Experiences.” Invited workshop given at the Conferencia Internacional de Calidad y Estadística Aplicada, la Universidad de Piura Lima, Peru, August 2014.
- (393) “Statistical Methods for Degradation Data with Dynamic Covariates and an Application to Outdoor Weathering Prediction.” Keynote lecture given at the European Network for Business and Industrial Statistics (ENBIS) Annual Conference, Linz, Austria, September 24, 2014.
- (394) “Application of Bayesian Methods in Reliability Data Analyses.” *Journal of Quality Technology* invited talk, Fall Technical Conference, Richmond, VA, October 3, 2014.

- (395) “Pitfalls of Accelerated Tests.” Webinar, sponsored by the Statistics Division of the American Society for Quality, October 15, 2014.
- (396) “Statistical Methods for Product Life Analysis and Accelerated Testing.” Short course, Army Conference on Applied Statistics, Washington, D.C., October 20-21, 2014.
- (397) “Pitfalls of Accelerated Tests.” Webinar, sponsored by the Reliability Division of the American Society for Quality, October 30, 2014.
- (398) “Experiences in Reliability Data Analysis.” Invited Tutorial, Reliability and Maintainability Symposium (RAMS 2015), Palm Harbor, FL, January 28, 2015.
- (399) “Development and Training Needs for Reliability Engineers.” Invited panel discussion RAMS, Palm Harbor, FL, January 28, 2015.
- (400) “Pitfalls of Accelerated Tests.” Invited talk, Photovoltaic Module Reliability Workshop, National Renewable Energy Laboratory, February 24, 2015.
- (401) “Probability of Detection in SHM.” Invited talk, SAE International Workshop on SHM Reliability, Boston, MA, April 14, 2015.
- (402) “Reliability in the 21st Century.” Plenary address, Mathematical Methods in Reliability (MMR2015) Conference, Tokyo, Japan, June 1, 2015.
- (403) “Reliability Data Analysis Experiences.” Invited Short course, Quality and Productivity Research Conference, Raleigh, NC, June 9, 2015.
- (404) “Estimating Failure-Time Distributions and Predicting Field Failures with Censored Data and Unknown Retirement Times.” Invited Talk, Quality and Productivity Research Conference, Raleigh, NC, June 10, 2015.
- (405) “Inference Based on Data from a Superposition of a Renewal Process.” Invited Talk, Frontiers in Industrial Statistics Workshop, Nankai University, Tianjin, China, June 19, 2015
- (406) “Using the Block Minima Method to Estimate Pipeline Thickness.” Invited talk given at the 60th International Statistical Institute World Statistics Congress 2015 Rio de Janeiro, July 28, 2015.
- (407) “Reliability in the 21st Century.” William S. Gosset ISBIS Lecture, 60th International Statistical Institute World Statistics Congress 2015 Rio de Janeiro, July 30, 2015.
- (408) “Inference Based on Data from a Superposition of a Renewal Process.” Joint Statistical Meetings, Seattle, WA, August 11, 2015.
- (409) “Reliability: The Other Dimension of Quality.” Deming Award Lecture Joint Statistical Meetings, Seattle, WA, August 11, 2015.
- (410) “Statistical Methods for Degradation Data with Dynamic Covariates and an Application to Outdoor Weathering Prediction.” Universidad Nacional de Colombia, August 20, 2015.
- (411) “Inference Based on Data from a Superposition of a Renewal Process.” University of Michigan, Ann Arbor, MI, October 2, 2015.
- (412) “Statistical Intervals: Vive La Différence!” Plenary address, Fall Technical Conference, Houston TX, October 8, 2015.

- (413) “Statistical Methods for Degradation Data with Dynamic Covariates and an Application to Outdoor Weathering Prediction.” Invited talk, Global Forum for Energy, Environment and Commercial Civilization (GFEECC), Sichuan University, Chengdu, China. October 22, 2015.
- (414) “Experiences in Reliability Data Analysis.” Invited Tutorial, Reliability and Maintainability Symposium (RAMS 2016), Tucson, AZ, January 27, 2016.
- (415) “Experiences in Reliability Data Analysis.” Invited Short Course, Workshop on Rigorous Test and Evaluation for Defense, Aerospace, and National Security, Arlington, VA, April 11, 2016.
- (416) “Estimating a Parametric Component Lifetime Distribution from a Collection of Superimposed Renewal Processes.” Invited talk, International Society for Business and Industrial Statistics (ISBIS 2016), Barcelona, June 8-10, 2016.
- (417) “Use of Monte Carlo Simulation in Reliability Inference.” Plenary address, International Conference on Accelerated Life Testing (ALT 2016), Troyes, France, June 22-24, 2016.
- (418) “Probability of Detection in Structural Health Monitoring.” 2016 Quantitative Nondestructive Evaluation Conference, Atlanta, GA, July 19, 2016.
- (419) “Reliability in the 21st Century.” Invited talk, Simpósio Nacional de Probabilidade e Estatística, Porto Alegre, Brasil, July 25, 2016
- (420) “Service Life Prediction of Field-Exposed Units Based on Laboratory Accelerated Degradation Test Data.” Invited talk, Joint Statistical Meetings Chicago, IL, August 3, 2016.
- (421) “Reliability and Simulation.” JMP Explorers Seminar Series, Eindhoven, The Netherlands, September 14, 2016.
- (422) “Pitfalls of Accelerated Tests.” Keynote Address, 2016 Accelerated Stress Testing and Reliability (ASTR) Conference, Pensacola Beach, FL, September 28, 2016
- (423) “Estimating a Parametric Component Lifetime Distribution from a Collection of Superimposed Renewal Processes.” *Technometrics* Invited Talk, Fall Technical Conference, October 7, 2016.
- (424) “Field Failure Prediction Based on Multi-Level Repair and System Usage Information.” *Technometrics* Invited Talk, Fall Technical Conference, October 7, 2016.
- (425) “Reliability and Simulation.” Invited presentation at JMP Explorers Seminar Series, Cambridge, MA, October 20, 2016.
- (426) “Service Life Prediction of Field-Exposed Units Based on Laboratory Accelerated Degradation Test Data.” Department of Statistics, Iowa State University, October 24, 2016.
- (427) “Experiences in Reliability Data Analysis.” Invited Tutorial, Reliability and Maintainability Symposium (RAMS 2017), Orlando, FL, January 25, 2017.
- (428) “Experiences in Reliability Data Analysis.” Invited Short Course, Workshop on Rigorous Test and Evaluation for Defense, Aerospace, and National Security, Arlington, VA, April 11, 2017.

- (429) “Statistical Methods for Product Life Analysis and Accelerated Testing.” Short course, HP, Corvallis, OR, May 22-24, 2017.
- (430) “Statistical Methods for Product Life Analysis and Accelerated Testing.” Short course, Corning, Corning, NY, June 5-7, 2017.
- (431) “Statistical Intervals: Vive La Différence!” Plenary address, Quality and Productivity Research Conference, University of Connecticut, June 13-15, 2017.
- (432) “Reliability and Simulation.” Invited presentation at JMP Explorers Seminar Series, Chicago, IL, June 21, 2017.
- (433) “Service Life Prediction of Field-Exposed Units Based on Laboratory Accelerated Degradation Test Data.” Invited talk, Mathematical Methods in Reliability (MMR2017), Grenoble, France, July 3-6, 2017.
- (434) “Service Life Prediction of Field-Exposed Units Based on Laboratory Accelerated Degradation Test Data.” Invited Talk, International Statistical Institute World Statistics Congress (ISI-WSC), Marrakech, Morocco, July 16-21, 2017.
- (435) “Simultaneous Prediction Intervals for the (Log)-Location-Scale Family of Distributions.” Invited talk, Joint Statistical Meetings, Baltimore, MD, August 2017.
- (436) “Reliability and Simulation.” Invited presentation at JMP Explorers Seminar Series, Cary, NC, August 15, 2017.
- (437) “The Cautious Use of Bayesian Methods in Reliability Data Analysis.” Keynote address, Symposium on Automobile Reliability in Honor of Guangbin Yang, Dearborn, MI, August 10, 2017.
- (438) “Probability of Detection in Structural Health Monitoring.” Invited presentation at SAE Aerospace Industry Steering Committee on Structural Health, Palo Alto, CA, Monday, September 12, 2017.
- (439) “Inference Based on Data from a Superposition of a Renewal Process.” Invited seminar, Universidade Federal de São Carlos, São Carlos, Brazil, September 20, 2017.
- (440) “The Cautious Use of Bayesian Methods in Reliability Data Analysis.” Keynote Address, 2017 Accelerated Stress Testing and Reliability (ASTR) Conference, Austin, TX, September 27, 2017.
- (441) “Applications of the Fractional-Random-Weight Bootstrap.” JMP Discovery, St. Louis, MO, October 19, 2017.
- (442) “Service Life Prediction of Field-Exposed Units Based on Laboratory Accelerated Degradation Test Data.” Invited Seminar, KTH Royal Institute of Technology, Stockholm, Sweden. October 24, 2017.
- (443) “Experiences in Reliability Data Analysis.” Invited Tutorial, Reliability and Maintainability Symposium (RAMS 2018), Reno, NV, January 23, 2018.
- (444) “Pitfalls of Accelerated Testing.” Invited Tutorial, (RAMS 2018), Reno, NV, January 25, 2018.
- (445) “Statistical Intervals: Vive La Différence!” Department of Statistics, Iowa State University, February 5, 2018.
- (446) “Applications of the Fractional-Random-Weight Bootstrap.” Invited Talk, JMP Discovery, Frankfurt, Germany, March 14, 2018.

- (447) “Reliability and Simulation.” Invited presentation at JMP Explorers Seminar Series, San Diego, CA, April 10, 2018.
- (448) “Reliability and Simulation.” Invited presentation at JMP Explorers Seminar Series, Detroit, MI, April 24, 2018.
- (449) “Probability of Detection in Structural Health Monitoring.” Invited presentation at SAE Aerospace Industry Steering Committee on Structural Health, Naples, Italy, May 8, 2018.
- (450) “Statistical Methods for Product Life Analysis, Accelerated Testing, and Probability of Detection.” Short course, Embraer/UFRGS, São José dos Campos, Brazil, 23-26 July 2018.
- (451) “Applications of the Fractional-Random-Weight Bootstrap.” Topic-Contributed talk given at the Joint Statistical Meetings, Vancouver, B.C., Canada, July 31, 2018.
- (452) “Research and Practical Applications of Statistical Methods for Reliability Data.” Invited Short course, Tsinghua University, Beijing, China, August 6-10, 2018.
- (453) “Reliability and Simulation.” Invited presentation at JMP Explorers Seminar Series, Stockholm, Sweden, September 13, 2018.
- (454) “Applications of the Fractional-Random-Weight Bootstrap.” Invited talk given at the National University of Singapore, October 1, 2018.
- (455) “Statistical Methods for Product Life Analysis and Accelerated Testing.” Short course, presented at Hewlett Packard, Singapore, October 2-4, 2018.
- (456) “Applications of the Fractional-Random-Weight Bootstrap.” Department of Statistics, Iowa State University, October 29, 2018.
- (457) “Statistical Methods for Product Life Analysis and Accelerated Testing.” Short course, presented for Autoliv, Ogden, UT, November 13-16, 2018.
- (458) “Probability of Detection in Structural Health Monitoring.” Clarkson University, November 30, 2018.
- (459) “Service Life Prediction of Field-Exposed Units Based on Laboratory Accelerated Degradation Test Data.” Keynote address given at the 3rd Pacific Rim Statistics Conference for Production Engineering, National Tsing-Hua University, Hsin-Chu, Taiwan, December 13-14, 2018.
- (460) “Applications of the Fractional-Random-Weight Bootstrap.” Invited talk given the Advances in Reliability Workshop, National Tsing-Hua University, Hsin-Chu, Taiwan, December 15-16, 2018.
- (461) “Pitfalls of Accelerated Testing.” Invited Tutorial, (RAMS 2019), Orlando, FL, January 25, 2019.
- (462) “Reliability Disasters: What Have We Learned?” Erudite invited scholar presentation, Cochin University of Science and Technology, Kochi, India, February 26, 2019.
- (463) “Statistical Intervals: Vive La Différence!.” Erudite invited scholar presentation, Maharaja’s College, Kochi, India, February 27, 2019.
- (464) “Service Life Prediction of Field-Exposed Units Based on Laboratory Accelerated Degradation Test Data.” Erudite invited scholar presentation, Cochin University of Science and Technology, Kochi, India, February 28, 2019.



- (465) “The Use of Bayesian Methods in Reliability Data Analysis.” Invited talk, JMP Discovery Summit, Copenhagen, Denmark, March 13, 2019.
- (466) “Probability of Detection in Structural Health Monitoring.” Invited presentation at the 2nd SHM POD Workshop, Washington DC, April 25, 2019.
- (467) “Applications of the Fractional-Random-Weight Bootstrap.” Invited talk, Mathematical Methods in Reliability Conference (MMR2019), Hong Kong, June 4, 2019.
- (468) “The Cautious Use of Bayesian Methods in Reliability Data Analyses.” Invited presentation at the 17th Workshop on Quality Improvement Methods, TU Dortmund University, Dortmund, Germany, June 14, 2019.
- (469) “Reliability in the 21st Century.” Keynote address at the Fifth International Conference on the Interface between Statistics and Engineering (The 5th ICISE), Seoul, South Korea, June 26, 2019.
- (470) Discussant for session “Analysis of Left-Censored Data (e.g., Below Detection): Real-World Problems in Need of Statisticians,” Joint Statistical Meetings, Denver CO, July 31, 2019.
- (471) “Statistical Methods for Probability of Detection in Structural Health Monitoring.” Keynote address at the 12th International Workshop on Structural Health Monitoring September 10, 2019, Stanford
- (472) “Workshop on Accelerated Lifetime Analysis and Reliability Statistics,” Invited presentation, IEEE Reliability Society, Santa Clara Valley Chapter, Milpitas, CA, September 12, 2019.
- (473) “A Hierarchical Model for Heterogeneous Reliability Field Data,” *Technometrics* invited paper, Fall Technical Conference, Gaithersburg, MD, September 26, 2019.
- (474) “A Hierarchical Model for Heterogeneous Reliability Field Data,” Invited seminar, Ciências Matemáticas e de Computação, Universidade São Paulo, São Carlos, Brazil, November 6, 2019.
- (475) “The Cautious Use of Bayesian Methods in Reliability Data Analyses,” seminar, Department of Statistics, Iowa State University, November 18, 2019.
- (476) “Statistical Methods for Product Life Analysis, Accelerated Testing, and Probability of Detection.” Short course, Honda Research and Development, Burlington, NC, December 4-6, 2019.
- (477) “Accelerated Test Methodology to the Predict Service Life of Polymeric Materials Subject to Outdoor Weathering.” Keynote talk, Symposium in Reliability Theory and Industrial Statistics, Hong Kong, December, 13, 2019.
- (478) “Pitfalls of Accelerated Testing.” Invited Tutorial, (RAMS 2020), Palm Springs, CA, January 25, 2020.
- (479) “Reliability in the 21st Century.” Plenary address at the 9th Asia-Pacific International Symposium on Advanced Reliability and Maintenance Modeling, Vancouver, Canada, August 21-23, 2020 (virtual).
- (480) “Seasonal Warranty Prediction Based on Recurrent Event Data.” Plenary address at the of ENBIS 2020, September 28-30, 2020 (virtual).
- (481) “Seasonal Warranty Prediction Based on Recurrent Event Data.” Seminar, Michigan Technological University, November 2020 (virtual).

- (482) “Seasonal Warranty Prediction Based on Recurrent Event Data.” Invited talk, International Society for Business and Industrial Statistics (ISBIS) online conference organized by Cochin University of Science and Technology, December 28, 2020.
- (483) “Seasonal Warranty Prediction Based on Recurrent Event Data.” Seminar, Iowa State University, Department of Statistics, February 15, 2021 (virtual).
- (484) “The Use of Bayesian Methods in JMP.” Invited talk, JMP Discovery Summit, Europe, March 12, 2021 (virtual).
- (485) “Reliability Disasters: What Have We Learned?” Invited talk, West Midlands Local Group of the Royal Statistical Society, April 8, 2021 (virtual).
- (486) “Assessment of Distributional Goodness-of-Fit for Modeling the Superposition of Renewal Process Data.” Invited talk, International Virtual Conference on Advances in Statistics—Honoring the Contributions of Barry C. Arnold in Statistical Science, May 8, 2021.
- (487) “Statistical Methods for Product Life Analysis, Accelerated Testing, and Probability of Detection.” Virtual short course, TriMark, May 2021.
- (488) “Seasonal Warranty Prediction Based on Recurrent Event Data.” Invited talk, International Statistical Institute World Statistics Congress (ISI-WSC) 2021, August, 15, 2021 (virtual).
- (489) “Achieving Product Reliability: A Key in Business Success,” Virtual plenary talk at JMP Discovery Japan, December 15, 2021.
- (490) “Statistical Methods for Probability of Detection and Model-Assisted Probability of Detection.” Virtual short course, NASA, January 2022.
- (491) “Statistical Methods for Product Life Analysis, Accelerated Testing, and Fatigue Data Analysis.” Virtual short course, Medtronic, March 2022.
- (492) Invited panelist (virtual) “Future of the three traditional pillars of industrial statistics: Statistical Process Monitoring and Control, Reliability and Design of Experiments,” Spring Research Conference, May 20, 2022.
- (493) “Statistical Methods for Product Life Analysis, Accelerated Testing, and Fatigue Data Analysis.” Virtual short course, John Deere, June 2022.
- (494) “Modern Methods for Estimating S-N Curves and Strength Distributions from Metal Fatigue Experimental Data.” Invited talk, Quality and Productivity Research Conference, June 14, 2022 (virtual).
- (495) “Repeated-Measures Degradation Analysis using Bayesian Estimation in JMP 17,” Invited talk (virtual) JMP Discovery, September 20, 2022.
- (496) “Seasonal Warranty Prediction Based on Recurrent Event Data.” Invited virtual seminar organized by Institute of Statistical Science at Academia Sinica, Graduate Institute of Statistics at National Central University, and the Department of Statistics and Institute of Data Science at National Cheng Kung University, Taiwan, October 6, 2022.
- (497) “Repeated-Measures Degradation Analysis Using Bayesian Estimation.” Invited virtual seminar organized by Institute of Statistical Science at Academia Sinica, Graduate Institute of Statistics at National Central University, and the Department of Statistics and Institute of Data Science at National Cheng Kung University, Taiwan, October 6, 2022.

- (498) “Reliability in the 21st Century.” Invited virtual seminar organized by Institute of Statistical Science at Academia Sinica, Graduate Institute of Statistics at National Central University, and the Department of Statistics and Institute of Data Science at National Cheng Kung University, Taiwan, October 27, 2022.
- (499) “Specifying Prior Distributions in Reliability Applications.” Invited virtual seminar organized by Institute of Statistical Science at Academia Sinica, Graduate Institute of Statistics at National Central University, and the Department of Statistics and Institute of Data Science at National Cheng Kung University, Taiwan, October 27, 2022.
- (500) “Modern Methods for Estimating S-N Curves and Strength Distributions from Metal Fatigue Experimental Data.” Keynote Address (virtual) 2022 Workshop on Advances in Reliability November 17, 2022.