

CURRICULUM VITAE

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Education

1975	Ph.D.	School of Industrial and Systems Engineering Georgia Institute of Technology, Atlanta, Georgia 30332.
1971	M.S.	Department of Industrial and Management Engineering The University of Iowa, Iowa City, Iowa 52242.
1969	B.A.	Department of Mathematical Sciences The University of Iowa, Iowa City, Iowa 52242.

Professional Experience

1984-present	Professor	School of Industrial Engineering Purdue University, West Lafayette, IN 47907.
2010 spring	Adjunct Professor	Dept. of Ind. and Systems Engineering Virginia Tech.
2003 spring	Visiting Scholar	Dept. of Ind. Eng. and Operations Research University of California, Berkeley, CA 93920
1995-1996	Visiting Professor	Operations Research Center MIT, Cambridge, MA 02139.
1985-1986	Adjunct Research Professor	Department of Operations Research Naval Postgraduate School Monterey, CA 93943.
1979-1984	Associate Professor	School of Industrial Engineering Purdue University, West Lafayette, IN 47907.
1978-1979	Associate Professor	Department of Operations Research and Engineering Management Southern Methodist University, Dallas, TX 75275.
1975-1978	Assistant Professor	Department of Industrial Engineering and Operations Research Southern Methodist University, Dallas, TX 75275.
1970-1972	Systems Engineer	Electronic Data Systems Dallas, Texas 75240.
1968-1969	Computer Programmer	Measurement Research Center Iowa City, Iowa 52240.

Independent Consulting Experience

AT&T Bell Laboratories; General Motors Technical Center; Law Offices of Adler, Kaplan & Begy; General Housewares Corporation; Pritsker Corporation; Thiokol Corporation; United Nations Industrial Development Organization; Medical Decision Making, Inc.; Symix Systems; ILOG; United Network for Organ Sharing (UNOS); Health Resources and Services Administration (HRSA).

Research Interests

Probabilistic and statistical aspects of digital-computer simulation: Random-variate

generation, input modeling, output analysis, variance reduction, root finding, and optimization. Stochastic models. Applied operations research.

Teaching Awards

- Dean Marion B. Scott Award, Tau Beta Pi, National Engineering Honor Society, Schools of Engineering, Purdue University, 1992. ("An annual award presented to an engineering professor for his or her devotion to encouraging, inspiring, and advising the engineering student body in order that engineering students might grow both academically and professionally.")
- James H. Greene Outstanding Graduate-Educator Award, School of Industrial Engineering, Purdue University. 1998, 2000, 2002.
- A. Alan B. Pritsker Outstanding Undergraduate-Teaching Award, School of Industrial Engineering, Purdue University. 1984, 2001, 2003, 2005.
- Nominee, A.A. Potter (engineering-wide) undergraduate-teaching award, School of Industrial Engineering, Purdue University. 1984, 2001, 2002, 2003, 2004, 2005, 2006.
- Nominee, Charles B. Murphy (university-wide) undergraduate-teaching award, School of Industrial Engineering, Purdue University. 2001, 2002, 2003, 2004, 2005, 2006.
- Nominee, Amoco (university-wide) Teaching Award, Schools of Engineering, Purdue University. 1984.

Other Awards and Honors

- Fellow, INFORMS, October 2004.
- David F. Baker Distinguished Research Award, Institute of Industrial Engineers, May 2004 (IIE's "highest form of professional recognition for research contributions to the field of industrial engineering").
- Fellow, Institute of Industrial Engineers, May 1997.
- Distinguished Service Award, College on Simulation, Institute for Operations Research and the Management Sciences, December 1997.
- Operations Research Division Award, Institute of Industrial Engineers, May 1995.
- Supercomputer Visiting Scientist Award, Rutgers University, 1990.
- Best dissertation, School of Industrial and Systems Engineering, Georgia Institute of Technology, 1975.
- National Defense Education Act Title IV Fellowship, 1969.
- Undergraduate degree "with distinction," 1969.

Professional Activities

- National Research Council, Panel, "Technology for the Military Reserve for 2010 and Beyond," 1998–1999.

Member

- American Statistical Association (ASA).
Institute of Operations Research and the Management Sciences (INFORMS)
(Formerly Operations Research Society of America (ORSA)
and The Institute of Management Sciences (TIMS)).
Institute of Industrial Engineers (IIE).
Omega Rho, The International Operations Research Honor Society.
Sigma Xi, The International Research Society.

Institute of Industrial Engineers

Program Chair, Industrial Engineering Research Conference, Nashville, TN, 1995.
Member, Fellows Selection Committee, 2005.

TIMS College on Simulation and Gaming

President, 1984–1986.
Vice-President 1982–1984.
Secretary-Treasurer, 1980–1982.
Member, Outstanding Service Award Committee, 1987–1990. Chairman, 1988.
Award Chairman, Best Simulation Paper in *Management Science*, 1980–1982.
Member, committee to establish outstanding simulation paper award, 1980.

Operations Research Society of America

Chair, Technical Sections Committee, 1993–1996.
Council Member, 1990–1993.
Liaison to the Winter Simulation Conference, 1982–1991.
Liaison to the AAAS Section on Industrial Science, 1991–1994.
Member, *ORSA Journal on Computing* Editor Search Committee, 1991–92.
Member, Subdivision Subcommittee on the INFORMS Board Committee, 1994.
Member, INFORMS Society-Definition Committee, 1994.

INFORMS

Member, Dantzig Dissertation Prize Committee, 2003, 2004.
Member, Nicholson Prize Committee, 1997, 1998.
Nominee, Vice President for Subdivisions, 1996.
Member, Subdivisions Committee, 1995.
Chair, Sections Subcommittee, 1995–1996.
Member, Marketing Strategy Committee, 1995–1996.

Omega Rho (International Operations Research Honor Society)

President, 1996–98.
Councillor of the Central United States Region, 1977–1982.
Faculty Advisor, Southern Methodist University, Fall 1976–Spring 1979.
Founded SMU Chapter of Omega Rho, Spring 1976.
.HP Winter Simulation Conference (WSC)
Trustee, WSC Foundation, 2004–2008.
ORSA Representative to the WSC Board of Directors, 1982–1991.
Board Chairman, 1988–1990.
Board Vice Chairman, 1986–1988.
Board Liaison for the 1986 and 1992 conferences.
Program Chair, 1983.
Associate Program Chair, 1982.
Track Organizer, Analysis Methodology, Atlanta, 1987, 1997.

Editor:

International Editorial Board, *Industrial Engineering Research*, 1997–present.
Associate Editor, *Journal of Computational and Graphical Statistics*, 1995–1997.
Area Editor, *Operations Research*, Simulation, 1988–1994.
Department Editor, *IIE Transactions*, Simulation, 1981–1985.
Co-editor, *Proceedings of the Winter Simulation Conference*, 1983.
Editorial Board, *Handbook of Industrial Engineering*, 1981.
Editorial Board, *Communications in Statistics*, 1980–1984.
Editorial Board, *American Journal of Mathematical and Management Sciences*, 1979–82.
Editorial Board, *Journal of Quality Technology*, 1977–1982.
Co-editor, *Newsletter of the TIMS College on Simulation and Gaming*, 1976–1981.

Referee: *Management Science*; *Operations Research*, *Journal of the American Statistical Association*; *Communications in Statistics, A: Theory and Methods*; *Communications in Statistics, B: Simulation and Computation*; *Communications of the Association for Computing Machinery*; *IIE Transactions*; *Transportation Science*; *Zentralblatt für Mathematik*; *Journal of Statistical Computation and Simulation*; *Journal of Quality Technology*; *American Journal of Mathematical and Management Sciences*; *Naval Research Logistics Quarterly*; *TIMS College on Simulation and Gaming Monographs*; *TIMS Studies in the Management Sciences*; *Symposium on the Simulation of Computer Systems*; *Simulation*; *IEEE Computer*; *The American Statistician*; *Computers and Mathematics with Applications*; *IBM Journal for Research and Development*; *Decision Sciences*; *Stochastic Models*; *OR Letters*; *Computers & Mathematics with Applications*; *Annals of Operations Research*; *Mathematics of Operations Research*; *Transactions of the Society for Computer Simulation*; *Pakistan Journal of Statistics*; *First International Conference on Statistical Computing*; *European Journal of Operational Research*; *Psychometrika*; *Computational Statistics and Data Analysis*; *Computing Surveys*; *Proceedings of the First IE Research Conference*; *ORSA Journal on Computing*; *International Journal of Computer Simulation*; *Computer-Aided Design*; *Journal of Computational and Graphical Statistics*; *Mathematical Programming*; *International Journal of Production Economics*; *Journal of the Royal Statistical Society, B*; *Annals of the Institute of Statistical Mathematics*; *Performance Evaluation*; *ASME Transactions Journal of Mechanical Design*; *Computers & Chemical Engineering*; *International Journal of Simulation and Process Modelling*, *Informations Transactions on Education*.

Reviewer: American Sciences Press; John Wiley and Sons; Institute for Defense Analysis; Addison Wesley; Army Research Office; Elsevier North Holland; National Science Foundation; MacMillan Publishing Company; City University of New York Research Award Program; Natural Sciences and Engineering Research Council of Canada; Oxford University Press, Chapman & Hall, Third International Symposium on Artificial Intelligence and Mathematics, Kluwer Academic Publishers, Prentice Hall.

Judge, Wilcoxon and Youden Prizes, *Technometrics*, 1977–1981.

Judge, Outstanding Student Paper, AIIE, 1981.

Cluster Chair:

Simulation, Industrial Engineering Research Conference, Los Angeles, 1993.

Simulation, International Federation of Operational Research Societies, Buenos Aires, 1987.

Panel Chair:

Analytic Representations of Simulation, WSC, Dallas, 1984 (with Barry Nelson).

Omega Rho — 20th Anniversary, INFORMS National Meeting, Washington, D.C., May 1996.

Panel Member:

Panel on current issues in simulation input modeling. Winter Simulation Conference, San Diego, California, December 2002.

Various ways academics teach simulation: Are they all appropriate? Winter Simulation Conference, Arlington, Virginia, December 2001.

Simulation environment for the new millennium, Winter Simulation Conference, Arlington, Virginia, December 2001.

The Interface between Simulation Output Analysis Research and Practice. Winter Simulation Conference, Washington, D.C., 1995.

INFORMS Societies—What Will They Be?, INFORMS National Meeting, Los Angeles, April 1995.

Alternative Approaches for Specifying Input Distributions and Processes, WSC, New Orleans, December 1990.
 Simulation Education, WSC, San Diego, December 1988.
 Steady-State Confidence Interval Methodology: A Forum on Theory, Practice, and Prospects, WSC, Dallas, November 1984.
 Teaching of Simulation, WSC, National Bureau of Standards, Gaithersburg, MD, December 1977.

Session Chair or Organizer:

Simulation Output Analysis, Winter Simulation Conference, 2002.
 Bayesian Methods, The Tenth New England Statistics Symposium, Worcester Polytechnic Institute, April 1996.
 Output Analysis, Winter Simulation Conference, Arlington, Virginia, December 1995 (with Antonio Pedrosa).
 Simulation Input Modeling, TIMS/ORSA Joint National Meeting, Nashville, April 1991.
 Simulation Analysis, Winter Simulation Conference, New Orleans, December, 1990.
 Simulation Output Analysis, CORS/TIMS/ORSA Joint National Meeting, Vancouver, April 1989.
 Simulation Output Analysis, TIMS/ORSA Joint National Meeting, Washington, D.C., April 1988.
 Variance Reduction, TIMS/ORSA Joint National Meeting, New Orleans, May 1987.
 Variance Reduction Methods in Simulation Experimentation, TIMS/ORSA Joint National Meeting, Los Angeles, April 1986.
 Simulation, ORSA/TIMS Joint National Meeting, Dallas, November 1984.
 Simulation, TIMS XXVI International Meeting, Copenhagen, June 1984 (co-chair).
 Statistical Techniques in Computer Simulation, ORSA/TIMS Joint National Meeting, Chicago, April 1983.
 Statistical Issues in Simulation Research, Panel, WSC, San Diego, December 1982.
 Statistical Techniques in Simulation, ORSA/TIMS Joint National Meeting, San Diego, December 1982.
 Discrete Simulation — Statistical Methods in Simulation, 10th International Association for Mathematics and Computers in Simulation (IMACS) World Congress on Systems Simulation and Scientific Computation, Montreal, August 1982.
 Statistical Issues in Simulation, TIMS/ORSA Joint National Meeting, Detroit, April 1982.
 Statistical Methodology for Simulation, CORS/TIMS/ORSA Joint National Meeting, Toronto, May 1981.
 Statistical Methods in Simulation, ORSA/TIMS Joint National Meeting, Colorado Springs, October 1980.
 Random Variate Generation, WSC, San Diego, December 1979.
 Simulation, ORSA/TIMS Joint National Meeting, Milwaukee, October 1979.
 Simulation and Data Analysis, ORSA/TIMS Joint National Meeting, Milwaukee, October 1979.
 Simulation Methodology, ORSA/TIMS Joint National Meeting, New Orleans, May 1979.
 Network Models, WSC, National Bureau of Standards, Gaithersburg, December 1977.
 Computer Simulation Methodology, TIMS/ORSA Joint National Meeting, Atlanta, November 1977.

Research Grants and Awards

Purdue University

- Principal Investigator, "Clinical-Trial Simulation Modeling", Eli Lilly Corporation, 1998–99, \$40,000.
- Project Director, "System Design with a Single Stochastic Constraint" Purdue Research Foundation Research Grant, 1997–99, \$23,333.
- Principal Investigator, "Correlated Decomposition for Analyzing Dynamic Stochastic Systems," National Science Foundation, 6/1/93–5/31/96, \$221,100. (in cooperation with Michael R. Taaffe, University of Minnesota, total grant \$427,200.)
- Project Director, "Stochastic Root Finding in System Design," Purdue Research Foundation Research Grant, 1993–95, \$20,100.
- Recipient, "XL International Travel Grant," Purdue Research Foundation, 1993, \$900.
- Principal Investigator, "Nonnormal Tolerance Intervals for Reliability," Thiokol Corporation, 7/1/91 to 8/30/93, \$65,000.
- Project Director, "Optimal Batch-Size Estimation in Simulation Output Analysis," Purdue Research Foundation, David Ross Grant, 6/11/90 to 6/10/92, \$18,000.
- Recipient, "XL International Travel Grant," Purdue Research Foundation, 1989, \$1100.
- Principal Investigator, "Statistical Analysis for Stochastic Modeling and Simulation, with Applications to Manufacturing Systems," National Science Foundation, 8/1/88 to 7/31/91, \$900,000. (This proposal was written jointly by the Department of Statistics, the School of Industrial Engineering, and Pritsker & Associates.)
- Recipient, "XL International Travel Grant," Purdue Research Foundation, 1984, \$800.
- Principal Investigator, "Random Process Generation," Office of Naval Research, Statistics and Probability Program, 10/1/82 to 12/30/83, \$53,546.
- Principal Investigator, "Random Process Generation," Office of Naval Research, Statistics and Probability Program, 10/1/80 to 9/30/82, \$94,968.
- Project Director, "Variate Generation for Discrete Random Variables," Purdue Research Foundation, David Ross Grant, 3/1/81 to 2/28/83, \$11,400.
- Project Director, "Monte Carlo Estimation of Sampling Distributions Arising in Statistical Modeling," Purdue Research Foundation, David Ross Grant, 3/1/80 to 2/28/82, \$9,820.
- Principal Investigator, "Random Process Generation," Office of Naval Research, Naval Analysis Program, 10/1/79 to 9/30/80, \$34,275.
- Faculty Associate, "Planning, Analysis and Implementation of U.S. Air Force HEART Program," School of Aerospace Medicine, U.S. Air Force, 9/1/80 to 5/31/81.
- Faculty Associate, "Performance and Cost Modeling for the NASA End to End Data System," NASA/Goddard Space Flight Center, 5/1/80 to 10/31/80.

Southern Methodist University

- Principal Investigator, "Random Process Generation," Office of Naval Research, Naval Analysis Program, 1/1/79 to 9/30/79, \$23,474.
- Principal Investigator, "Random Process Generation," Office of Naval Research, Naval Analysis Program, 6/1/78 to 12/31/78, \$19,490.
- Principal Investigator, "General Process Generation for Digital Computer Simulation," Office of Naval Research, Naval Analysis Program, 6/1/77 to 5/31/78, \$19,995.
- Principal Investigator, "Generation of Pseudorandom Values from Distributions having General Properties," National Science Foundation, seed grant, 1976.

Ph.D. Advising

- James J. Swain, *Monte Carlo Estimation of Sampling Distributions Arising in Statistical Models*, 1982.
- Ronald S. Dattero, *Stochastic Models from Event Count Data*, 1982.
- Voratas Kachitvichyanukul, *Computer Generation of Poisson, Binomial, and Hypergeometric Random Variables*, 1982.
- Barry L. Nelson, *Variance Reduction in Simulation Experiments: A Mathematical-Statistical Framework*, 1983.
- Keebom Kang, *Confidence Interval Estimation via Batch Means and Time Series Modeling*, 1984.
- Larry Leemis, *Stochastic Lifetimes: A General Model*, 1984.
- Whey-Ming Tina Song, *On Quadratic-Form Variance Estimators of the Sample Mean in the Analysis of Simulation Output*, 1988 (Second Place, Doctoral Dissertation Award Competition, Institute of Industrial Engineers, San Francisco, 1990).
- Thanos Avramidis, *Integrated Variance Reduction Techniques for Simulation with Applications to Stochastic Networks* (Primary advisor: James R. Wilson), 1993. (Winner, ORSA's Nicholson Prize.)
- Ming-Hui Chen, *The Hit-and-Run Sampler and Bayesian Analysis*, Department of Statistics (Co-advisor with James O. Berger), August 1993.
- Sherif Hashem, *Optimal Linear Combinations of Neural Networks*, December 1993.
- Antonio Pedrosa, *Automatic Batching in Simulation Output Analysis*, May 1994.
- Hui-Fen Chen, *Stochastic Root Finding in System Design*, August 1994.
- Jin Wang, *Contributions to Monte Carlo Analysis: Variance Reduction, Random Search, and Bayesian Analysis*, August 1994.
- Demet Ceylan Wood, *Variances in Dynamic-System Performance: Point Estimation and Standard Errors*, August 1995.
- Jihong Jin, *Retrospective Optimization of Stochastic Systems*, December 1998.
- Yingchieh Yeh, *Steady-State Simulation Output Analysis: MSE-Optimal Dynamic Batch Means with Parsimonious Storage*, August 2002.
- Angela Giddings, *A Unified Approach to Statistical Quality Assessment in Heuristic Combinatorial Optimization* (Co-advisor with Reha Uzsoy), August 2002.
- Raghu Pasupathy, *Stochastic Root Finding via Retrospective Approximation*, August 2005.
- Jamie Wieland, *Stochastic Gradient Estimation Using a Single Design Point*, 2007.
- Honggang Wang, *Retrospective Optimization of Discrete Stochastic Systems using Simplicial Linear Interpolation*, August 2009.

Master of Science Thesis Advising

- Mark D. Scott, *A Code Generator for Random-Vector Simulation Experiments*, 1990.
- Y.B. Shekar, *Random Variate Generation with Correlation Induction*, 1991.
- Ferry Wiriadinata, *Efficient Central-Server Model Simulation*, August 1992.
- William McDaniel, *Software Design for Analysis with Markov Processes*, August 1992.
- Paul Koleske, *Markov Chain Methods for Linear Programming*, (co-advisor: Vijaya Chandru), May 1992.
- James R. Ashby, *Scheduling with Order Release in a Make-to-Order Shop*, 1993 (primary advisor: Reha Uzsoy).
- Yingchieh Yeh, *Steady-State Simulation Output Analysis via Dynamic Batch Means*, 1999.
- Lara Anderson, *Determining the Proper Size of the United States Coast Guard General Detail*, May 2002.

Jamie R. Wieland, *Developing a Simulation Approach for Checking Queueing-Network Stability*, December 2003.

Archival Articles

- R. Pasupathy and B.W. Schmeiser. Retrospective-approximation algorithms for the multidimensional stochastic root-finding problem. *ACM Trans. Model. Comput. Simul* 19 (2009).
- W.-M. Tina Song and B. W. Schmeiser. Omitting meaningless digits in point estimates: The probability guarantee of leading-digit rules. *Operations Research* 57 (2009), 109–117.
- B. Schmeiser. A practitioner, a vender, and a researcher walk into a bar: Trying to explain what researchers do. Proceedings of the Winter Simulation Conference, 2008, 2–9.
- W.-M. Tina Song and B. W. Schmeiser. Displaying statistical point estimators: The leading-digit procedure. Proceedings of the Winter Simulation Conference, 2008, 407–412.
- Honggang Wang and B. Schmeiser. Discrete stochastic optimization using linear interpolation. Proceedings of the Winter Simulation Conference, 2008, 502–508.
- J. Wieland and B. Schmeiser. Derivative estimation with known control-variate variances. Proceedings of the Winter Simulation Conference, 2007, 560–567.
- J. Wieland and B. Schmeiser. Stochastic gradient estimation using a single design point. Proceedings of the Winter Simulation Conference, 2006, 390–397.
- S. Andradottir, D. Goldsman, L. Schruben, B. Schmeiser, E. Yucsan. Analysis methodology: are we done? Proceedings of the Winter Simulation Conference, 2005, 790–796.
- R. Pasupathy and B. Schmeiser. Retrospective approximation algorithms for the multidimensional stochastic root-finding problem. *Proceedings of the Winter Simulation Conference*, (R.G. Ingalls, M.D. Rossetti, J.S. Smith, and B.A. Peters, eds.), 2004, 520–528.
- B. Schmeiser. Simulation output analysis: A tutorial based on one research thread. *Proceedings of the Winter Simulation Conference*, (R.G. Ingalls, M.D. Rossetti, J.S. Smith, and B.A. Peters, eds.), 2004, 162–170.
- J. R. Wieland, R. Pasupathy, and B. Schmeiser. Queueing-network stability: Simulation-Based Checking. *Proceedings of the Winter Simulation Conference*, (S. Chick, P.J. Sanchez, D. Ferrin, and D.J. Morrice eds.), 2003, 520–527.
- J. Jin and B. Schmeiser. Simulation-based retrospective optimization of stochastic systems: A family of algorithms. *Proceedings of the Winter Simulation Conference*, (S. Chick, P.J. Sanchez, D. Ferrin, and D.J. Morrice eds.), 2003, 543–547.
- R. Pasupathy and B. Schmeiser. Some issues in multivariate stochastic root finding. *Proceedings of the Winter Simulation Conference*, (S. Chick, P.J. Sanchez, D. Ferrin, and D.J. Morrice eds.), 2003, 574–577.
- Y. Yeh and B. Schmeiser. On the mse robustness of batching estimators. *Operations Research Letters*, 32 (2003), 3, 293–298.
- B. Schmeiser, R. Rao, and N. Kumala. Smoothing piecewise-constant rate functions. *Proceedings of the Industrial Engineering Research Conference*, Institute of Industrial Engineers, 2003, 6 pages (cd only).
- B. Schmeiser and Y. Yeh. On choosing a single criterion for confidence-interval procedures. *Proceedings of the Winter Simulation Conference*, (E. Yucsan, C.-H. Chen, J.L. Snowdon, and J.M. Charnes eds.), 2002, 345–352.
- R.R. Barton, R.C.H. Cheng, S.E. Chick, S.G. Henderson, A.M. Law, L.M. Leemis, B.W. Schmeiser, L.W. Schruben, and J.R. Wilson. Panel on current issues in simulation input modeling. *Proceedings of the Winter Simulation Conference*, (E. Yucsan, C.-H. Chen, J.L. Snowdon, and J.M. Charnes eds.), 2002, 353–369.
- Y. Yeh and B. Schmeiser. On the mse robustness of batching estimators. *Proceedings of the Winter Simulation Conference*, (B.A. Peters, J.S. Smith, D.J. Medeiros and M.W.

- Rohrer eds.), 2001, 344–347.
- B. Schmeiser. Some myths and common errors in simulation experiments. *Proceedings of the Winter Simulation Conference*, (B.A. Peters, J.S. Smith, D.J. Medeiros and M.W. Rohrer eds.), 2001, 39–46.
- T. Altioik, W.D. Kelton, P. L'Ecuyer, B.L. Nelson, B.W. Schmeiser, T.J. Schriber, L.W. Schruben, and J.R. Wilson. Various ways academics teach simulation: are they all appropriate? (Panel on education in simulation). *Proceedings of the Winter Simulation Conference*, (B.A. Peters, J.S. Smith, D.J. Medeiros and M.W. Rohrer eds.), 2001, 1580–1591.
- V. Kachitvichyanukul, J.O. Henriksen, C.D. Pegden, R.G. Ingalls, and B.W. Schmeiser. Simulation environment for the new millennium (panel). *Proceedings of the Winter Simulation Conference*, (B.A. Peters, J.S. Smith, D.J. Medeiros and M.W. Rohrer eds.), 2001, 541–547.
- B.W. Schmeiser, Taaffe, M.R., and Wang, J. Control variate estimation using estimated means. *IIE Transactions*, **34** (2001), forthcoming.
- B. Schmeiser, M.R. Taaffe, and J. Wang. Biased control-variate estimation. *IIE Transactions* **33** (2001), 219–228 (Special issue of *Operations Engineering* honoring Alan Pritsker).
- H. Chen and B. Schmeiser. Stochastic root finding via retrospective approximation. *IIE Transactions* **33** (2001), 259–275 (Special issue of *Operations Engineering* honoring Alan Pritsker).
- L. Leemis, B. Schmeiser and D. Evans. Survival distributions satisfying Benford's law. *American Statistician* **54** (2000), 236–241.
- Y. Yeh and B. Schmeiser. Simulation output analysis via dynamic batch means. *Proceedings of the Winter Simulation Conference*, (J.A. Joines, R.R. Barton, K. Kang, and P.A. Fishwick eds.), 2000, 637–645.
- S.E. Taranto, A.M. Harper, E.B. Edwards, J.D. Rosendale, M.A. McBride, O.P. Daily, D. Murphy, B. Poos, J. Reust, and B. Schmeiser. Developing a national allocation model for cadaveric kidneys. *Proceedings of the Winter Simulation Conference*, (J. A. Joines, R.R. Barton, K. Kang, and P.A. Fishwick eds.), 2000, 1971–1977.
- B. Schmeiser. Advanced input modeling for simulation experimentation. *Proceedings of the Winter Simulation Conference*, (P.A. Farrington, H.B. Nembhard, D.T. Sturrock, and G.W. Evans eds.), 1999, 110–115.
- M.-H. Chen and B. Schmeiser. Toward black-box sampling: A random-direction interior-point Markov chain approach. *The Journal of Computational and Graphical Statistics* **7** (1998), 1–22.
- D.M. Goldsman and Bruce Schmeiser. Computational efficiency of batching methods. *Proceedings of the Winter Simulation Conference*, (S. Andradottir, K.J. Healy, D.H. Withers, and B.L. Nelson eds.), 1997, 202–207.
- B. Nelson, B. Schmeiser, M. Taaffe and J. Wang. Approximation-assisted point estimation. *Operations Research Letters* **20** (1997), 109–118.
- B. Schmeiser and W.-M. T. Song. Batching methods in simulation output analysis: What we know and what we don't. *Proceedings of the Winter Simulation Conference*, (J.M. Charnes, D.J. Morrice, D.T. Brunner, and J.J. Swain, eds.), 1996, 122–127.
- M.-H. Chen and B. Schmeiser. General hit-and-run Monte Carlo sampling for evaluating multidimensional integrals. *Operations Research Letters*, **19** (1996), 161–169.
- D.C. Wood and B. Schmeiser. Overlapping batch quantiles. *Proceedings of the Winter Simulation Conference*, (C. Alexopoulos, K. Kang, D. Goldsman, and W. Lilegdon, eds.), 1995, 303–308.
- B. Schmeiser and J. Wang. On the performance of pure adaptive search. *Proceedings of the Winter Simulation Conference*, (C. Alexopoulos, K. Kang, D. Goldsman, and W.

- Lilegdon, eds.), 1995, 353–356.
- P.W. Glynn, J.O. Henriksen, C.D. Pegden, B.W. Schmeiser, and L.W. Schruben. The interface between simulation output analysis research and practice. *Proceedings of the Winter Simulation Conference*, (C. Alexopoulos, K. Kang, D. Goldsman, and W. Lilegdon, eds.), 1995, 346.
- M.-H. Chen and B. Schmeiser. Random-direction interior-point Markov chains: A family of black-box samplers. *Proceedings of the Bayesian Statistical Inference Section of the American Statistical Association*, 1994, 1–6.
- S. Hashem and B. Schmeiser. Improving model accuracy using optimal linear combinations of trained neural networks. *IEEE Transactions on Neural Networks*, **6**, 3 (May 1995), 792–794.
- H. Chen and B. Schmeiser. Monte Carlo estimation for guaranteed-coverage nonnormal tolerance intervals. *Journal of Statistical Computation and Simulation*, **51**(1995), 223–238. Errata: **53** (1997), U1–U2.
- D. Ceylan Wood and Bruce Schmeiser. Consistency of overlapping batch variances. *Proceedings of the Winter Simulation Conference*, (J. Tew, S. Manivannan, D. Sadowski, and A. Seila, eds.), 1994, 316–319.
- H. Chen and B. Schmeiser. Retrospective approximation algorithms for stochastic root finding. *Proceedings of the Winter Simulation Conference*, (J. Tew, S. Manivannan, D. Sadowski, and A. Seila, eds.) 1994, 255–261.
- B. Schmeiser. The graduate student colloquium: What you are supposed to know that professors often don't teach. *OR/MS Tomorrow* **11**, Fall 1994, 6–8.
- W.T. Song and B. Schmeiser. Optimal mean-squared-error batch sizes. *Management Science* **41** (1995), 110–123.
- B. Schmeiser and M. Taaffe. Time-dependent queueing network approximations as simulation external control variates. *Operations Research Letters* **16** (1994), 1–9.
- W.T. Song and B. Schmeiser. Reporting the precision of simulation experiments. *New Directions in Simulation for Manufacturing and Communications*, (S. Morito, H. Sakasegawa, K. Yoneda, M. Fushimi, and K. Nakano, eds.), Operations Research Society of Japan, 1994, 402–407.
- B. Schmeiser. Comparing stochastic systems using simulation. *New Directions in Simulation for Manufacturing and Communications*, (S. Morito, H. Sakasegawa, K. Yoneda, M. Fushimi, and K. Nakano, eds.), Operations Research Society of Japan, 1994, 17–19.
- S. Hashem, B. Schmeiser and Y. Yih, Optimal linear combinations of neural networks: An overview. *Proceedings of the IEEE International Conference on Neural Networks*, **3** (1994), 1507–1512.
- H. Chen and B. Schmeiser. Stochastic root finding: Problem definition, examples, and algorithms. *Proceedings of the Third Industrial Engineering Research Conference*, (ed. L. Burke and J. Jackman), 1994, 605–611.
- S. Hashem and B. Schmeiser. Algorithm 727: Quantile estimation using overlapping batch statistics. *ACM Transactions on Mathematical Software* **20** (1994), 100–102.
- S. Hashem, Y. Yih and B. Schmeiser. An efficient model for product allocation using optimal combinations of neural networks. *Intelligent Engineering Systems through Artificial Neural Networks: Proceedings of the Artificial Neural Networks in Engineering (ANNIE) Conference*, **3** (1993), 669–674, ASME Press.
- D. Ceylan and B. Schmeiser. Interlaced variance estimators. *Proceedings of the Winter Simulation Conference*, 1993, 1382–1383.
- S. Hashem and B. Schmeiser. Approximating a function and its derivatives using MSE-optimal linear combinations of trained feed-forward neural networks. In *Proceedings of the 1993 World Congress on Neural Networks*, Vol. I, 617–620, New Jersey:

Lawrence Erlbaum Associates.

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Presentations (last six years)

- "Queueing-network stability: Simulation-Based Checking," Winter Simulation Conference, New Orleans, December 2003 (by J. R. Wieland, with R. Pasupathy).
- "Simulation-based retrospective optimization of stochastic systems: A family of algorithms," Winter Simulation Conference, New Orleans, December 2003 (with Jihong Jin).
- "Some issues in multivariate stochastic root finding," Winter Simulation Conference, New Orleans, December 2003 (by Raghu Pasupathy).
- "Reporting significant digits of point estimators for simulation experiments," INFORMS, Atlanta, November 21, 2003 (by Wheyming Song).
- "What professors do for a living," Purdue IE Graduate Student Colloquium, November 11, 2003.
- "On giving technical presentations," Purdue IE Graduate Student Colloquium, September 16, 2003.
- "On being a successful graduate student," Purdue IE Graduate Student Colloquium, September 2, 2003.
- "Dynamic batch means in simulation output analysis," INFORMS, Atlanta, November 21, 2003 (with Yingchieh Yeh).
- "Smoothing piecewise-constant rate functions," Industrial Engineering Research Conference, Portland, Oregon, May 2003 (with Rishab Rao and Nyoman Kumala).
- "Stochastic root finding via retrospective approximation," Department of Operations Research, Naval Postgraduate School, April 23, 2003.
- "Stochastic root finding via retrospective approximation," Department of Industrial Engineering and Operations Research, University of California, Berkeley, March 3, 2003.
- "On being a successful graduate student," Keynote for PRISMS (Pacific Region Intercollegiate Symposium for the Management Sciences), March 1, 2003.
- "Effective technical writing: reports, papers, theses," Society of Women Engineers, Purdue University, April 2002.
- "Simulation analysis," ILOG Technical Advisory Board Meeting, Paris, France, January 2002.
- "On the mse robustness of batching estimators," Winter Simulation Conference, Arlington, Virginia, December 2001 (with Yingchieh Yeh).
- "Some myths and common errors in simulation experiments," Winter Simulation Conference, Arlington, Virginia, December 2001 (a tutorial).
- "Cross-cutting industrial engineering courses: Integrating Ideas of IE", IE 200 (Industrial Engineering Seminar), Purdue University, November 2001.
- "Simulation output analysis via dynamic batch means," Winter Simulation Conference, December 2000 (by Yingchieh Yeh).
- "Developing a national allocation model for cadaveric kidneys," Winter Simulation Conference, December 2000 (by S.E. Taranto, with A.M. Harper, E.B. Edwards, J.D. Rosendale, M.A. McBride, O.P. Daly, D. Murphy, B. Poos, J. Reust).

- "Modeling organ-allocation policies," University of Michigan, February 2000.
- "Advanced input modeling for simulation experimentation. Winter Simulation Conference, Phoenix, AZ, December 1999.
- "Retrospective stochastic optimization of buffer allocation," INFORMS Meeting, Cincinnati, May 1999 (by Song Foh Chew).
- "Dynamic batch means in simulation output analysis," INFORMS Meeting, Seattle, November 1998 (by Yingchieh Yeh).
- "Numerical retrospective optimization," INFORMS Meeting, Montreal, May 1998 (with Jihong Jin).
- "Simulating stochastic systems: Some myths and common errors," Arizona State University, March 1998.
- "Retrospective approximation algorithms for stochastic root finding," University of Arizona, March 1998.
- "Computational efficiency of batching methods", Winter Simulation Conference, Atlanta, GA, December 1997 (with David Goldsman).
- "Retrospective Methods for Stochastic Root Finding and Optimization," University of Cincinnati, October 1997.
- "Towards black-box sampling: a random-direction interior-point Markov chain Monte Carlo approach," INFORMS Meeting, Dallas, October 1997 (with Ming-Hui Chen).
- "Why I don't like confidence intervals," Sixth Industrial Engineering Research Conference, Miami Beach, May 1997.

Teaching (1998–2005)

Spring	2005	IE 581	Simulation Design and Analysis
		IE 230	Probability and Statistics in Engineering I
Fall	2004	IE 230	Probability and Statistics in Engineering I
		IE 697	Graduate Student Colloquium
Spring	2004	IE 581	Simulation Design and Analysis
Fall	2003	IE 230	Probability and Statistics in Engineering I
		IE 330	Probability and Statistics in Engineering II
		IE 697	Graduate Student Colloquium
Fall	2002	IE 680	Advanced Simulation Design and Analysis
		IE 230	Probability and Statistics in Engineering I
Spring	2002	IE 581	Simulation Design and Analysis
		IE 230	Probability and Statistics in Engineering I
Fall	2001	IE 680	Advanced Simulation Design and Analysis
Spring	2001	IE 581	Simulation Design and Analysis
		IE 230	Probability and Statistics in Engineering I
Fall	2000	IE 230	Probability and Statistics in Engineering I
Spring	2000	IE 581	Simulation Design and Analysis
Fall	1999	IE 680	Advanced Simulation Design and Analysis
		IE 230	Probability and Statistics in Engineering I
Spring	1999	IE 536	Stochastic Models in Operations Research
		IE 581	Simulation Design and Analysis
		IE 697	Graduate Student Colloquium
Fall	1998	IE 680	Advanced Simulation Design and Analysis
		IE 697	Graduate Student Colloquium

University Service (not recently updated)

Purdue University

- Member, Engineering Area Promotions Committee, 2005–2006.
- Member, Regenstrief Center for Health Care, Search Committee, 2004–2005.
- Chair, Schools of Engineering, Grade Appeals Committee, 2002–2004.
- Member, Committee on Faculty Relations, Schools of Engineering, 2001–2003.
- Member, School of Industrial Engineering Coordinating Committee,
as Chair of the Operations Research Area, 2000–02.
- Member, School of Industrial Engineering Computer-Utilization Committee, 2003–05.
- Member, School of Industrial Engineering Faculty-Search Committee, 2000–01.
- Member, School of Industrial Engineering Head-Search Committee, 1980–81,
1992–93, 1999–00.
- Member, Industrial Engineering Graduate Committee, 1981–85, 86–88, 93–94, 96–01
Chair, 1997–01.
- Member, School of Industrial Engineering Student Advisory Committee, 1998–02.
- Member, Industrial Engineering Seminar Committee, 1993–98.
Chair, 1993–95.
- Chair, Ad-hoc Committee on Teaching Evaluations, 1998–99.
- Co-Chair, Ad-hoc Committee on Teaching Assistants, 1998–99.
- Member, Engineering Academic Personnel Grievance Committee, 1986–88, 1989–90,
1997–98.
- Member, Industrial Engineering Computer Committee, 1992–93.
- Member, Industrial Engineering Undergraduate Curriculum Committee, 1992–93,
01–02.
- Member, Industrial Engineering Graduate Admissions Committee, 1988–90, 91–93.
- Freshman Engineering Counselor, 1980–81.
- Member, Change-of-Degree-Objective Committee, School of Industrial Engineering,
1980–81, 1982–83.
- Member, *Ad hoc* committee to create Industrial Engineering Teaching Award, 1980.
- Member, *Ad hoc* committee on Industrial Engineering Teaching Awards, 1997–98.
- Chair, *Ad hoc* committee to create Student Teaching Evaluations Policies and
Procedures, 1999.
- Member, University Graduate Council, 1984–85, 1986–89.
Ad hoc Committee on Integrity, 1984.
Ad hoc Committee on Graduate Programs, School of Technology, 1985.
Area B Committee (Engineering), 1986–1989.
Area E Committee (Social Sciences), 1984–1985.
- Representative, School of Industrial Engineering, to the Schools of Engineering Area
Promotion Committee, spring 1989.
- Member, *Ad hoc* Committee on Undergraduate Student Distribution, Schools of
Engineering, 1987.

Southern Methodist University

- OR/MS Student Group Advisor, Fall 1977–Spring 1979.
- School of Engineering and Applied Science (SEAS) Faculty Affairs Committee,
Summer 1977–Spring 1979.
- SEAS Freshman Curriculum Committee, Summer 1979–Spring 1979.
- SEAS Evaluation Committee, 1976–77.
- School of Business/SEAS Information Technology Committee, 1976–1978.
- Computer Science Education Committee, Fall 1976–Spring 1977.