

Abridged Curriculum Vitae

R. Alan Bowman

Education

Ph.D., Cornell University, Operations Research, 1990.

MS, Cornell University, Operations Research, 1989.

MBA, Arizona State University, 1986.

BS, Arizona State University, Industrial Engineering, 1980.

Department and Current Rank

Professor of Management, Union Graduate College since 1990.

Associate Dean, School of Management, Union Graduate College since July, 2009.

Publications

Ashman, Thomas, Bowman, R. Alan, Lambrinos, James, Article
“Inefficiencies in the NBA Betting Markets: The Surprising
‘Home Disadvantage Situation’”, To Appear in the Journal of
Sports Economics.

Bowman, R. Alan, “Efficient Gradient-Based Tolerance Article
Optimization Using Monte Carlo Simulation,” Journal of
Manufacturing Science and Engineering, Volume 131(3),
2009.

Bowman, R. Alan, “Efficient Sensitivity Analysis of PERT Article
Network Performance Measures to Significant Changes in
Activity Time Parameters,” Journal of the Operational
Research Society, Volume 58(10), 2007.

Bowman, R. Alan, “Developing Activity Duration Specification Article
Limits for Effective Project Control,” European Journal of
Operational Research, Volume 174, 2006.

Bowman, Alan and Schmee, Josef, “Estimating Sensitivity of Article
Process Capability Modeled by a Transfer Function,” Journal
of Quality Technology, Vol. 36 Number 2, 2004.

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- Bowman, R. Alan, "Sensitivity Curves for Effective Project Management," Naval Research Logistics, Volume 50, 2003. Article
- Bowman, R. A., "Job Release Control Using a Cyclic Schedule," Production and Operations Management, Volume 11 Number 2, 2002. Article
- Bowman, R. Alan., "Due Date-Based Metrics for Activity Importance in Stochastic Activity Networks" Annals of Operations Research, Volume 102, 2001. Article
- Bowman, R. Alan. and Schmee, Josef, "Pricing and Managing a Maintenance Contract for a Fleet of Aircraft Engines", Simulation, Volume 76 Number 2, 2001. Article
- Sox, C.R., Jackson, P.L., Bowman, R.A., And Muckstadt, J.A., "A Review of the Stochastic Lot Scheduling Problem," International Journal of Production Economics, Volume 62 Number 3, 1999. Article
- Bowman, R.A., Haimowitz, I.M., Mattheyses, A.Y., and Phillips, M., "Discrete Time Simulation of an Equipment Rental Business," Winter Simulation Conference Proceedings, 1998. Article
- Bowman, R.A., and Muckstadt, J.A., "Production Control of Cyclic Schedules with Demand and Process Variability," Production and Operations Management, Volume 2 Number 4, 1995. Article
- Bowman, A., "Efficient Estimation of Arc Criticalities in Stochastic Activity Networks," Management Science, Volume 41 Number 1, 1995. Article
- Bowman, R. Alan, "Stochastic Gradient-Based Time-Cost Tradeoffs in PERT Networks Using Simulation, Annals of Operations Research, Volume 53, 1994. Article
- Bowman, R. Alan, "Inventory: The Opportunity Cost of Quality," IIE Transactions, Volume 26 Number 3, 1994. Article
- Bowman, R. A. and Muckstadt, J. A., "Stochastic Analysis of Cyclic Schedules," Operations Research, Volume 41 Number 5, 1993. Article

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Other Scholarly Output

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| Bowman, A., Doganaksoy, N., and Schmee, J. “Efficient Gradient-Based Optimization of Capability Modeled by Transfer Functions with Multiple Response Variables,” submitted to <u>Communications in Statistics – Simulation and Computation</u> . | Article
Submitted |
| Carlson, Jay P., Huppertz, John W., Bowman, R. Alan, Lambrinos, James, Strosberg, Martin A., Kutzer, Natalie A., “Volunteering Time Decisions: A Multifactor Experimental Study,” submitted to <u>Journal of Non-Profit and Voluntary Sector Marketing</u> . | Article
Submitted |
| Bowman, R. A. and Schmee, J. “Sensitivity Analysis of Process Capability With Extensions to Tolerancing Using a Transfer Function”, Presented at INFORMS Conference, 2004. | Presentation |
| Bowman, R. A. and Schmee, J. “Sensitivity Analysis of Process Capability With Extensions to Tolerancing Using a Transfer Function”, Presented at SAS Institute Conference, 2004. | Presentation |
| Rosenblum, M., Bowman, R. A. and Dirani, R. “Using Survival Models to Predict the Start of Insulin in Patients With Type 2 Diabetes Mellitus,” Presented at ISPOR Conference, 2002. | Presentation |
| Bowman, R.A., “Timing Material Flow into Bottlenecks Using a Cyclic Schedule,” presented at INFORMS Conference in Montreal, 1998. | Presentation |
| Bowman, R.A., “Coordinating Vendor Replenishments with Volume Constraints and Demand Variability,” presented at Spring POMS Conference in Pittsburgh, 1995. | Presentation |

Consulting and Other Work Experience

Developed forecasting and staffing models for AAA Northway Travel Agency’s Call Center, 2008-2009.

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Developed statistical models to evaluate fair market cost of electric utility services for First Quartile Consulting, 2008-2009.

Developed a Statistical Model to Predict the Progression of Diabetes Patients to Insulin Therapy for Integrail, 2001-2002.

Presented many multi-day training sessions for General Electric on Six Sigma Quality, 1998-2001.

Provided consulting on statistical analysis and benchmarking for Mercatus/Integrail/National Medical Health Card, 1998-2002.

Developed simulation model for an equipment rental business for General Electric, 1998.

Developed (along with Professor Josef Schmee) an engine maintenance statistical and simulation model for General Electric, 1997.

Developed and conducted a one-day training session (along with Professor Josef Schmee) for General Electric on Design for Manufacturing, 1995.

Developed and conducted a one-day training session for Mechanical Technologies, Inc. on Project Management, 1995.

Served as an advisor on management science and operations management for Theodore Barry and Assoc., 1992-1996.

Supervisor of Operations Research group, Salt River Project, 1982 to 1986.

Industrial Engineer for Reynolds Metals, Co., 1978 to 1982.

Off-Campus Service

Invited speaker at the February 2002 meeting of the Upstate New York Chapter of the Project Management Institute. Topic: The Use of Computer Simulation in Project Management, 2002.

Served on Board of Directors of Sofco-Mead, Inc., from 1991-1996.

On-Campus Service

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Admissions Committee, 1995-present.

Waiver Committee Chair, 2001-present.

Chair of Union Graduate School Faculty Executive Committee, 2006-present.

Chair of Curriculum Committee, 2006-present.

Assessment Committee, 2007-present.

Program Chair, MBA Management, 1993-2004.

Chair of Tenurability Ad Hoc Committee, 2002.

Program Chair, MSIA, 1993-2002.

Chair of Union Athletic Facilities Committee, 2000-2001.

Middle States Accreditation Sub-Committee looking at Intellectual Life in the Classroom, 1998.

Sub-Committee of the Faculty Review Board to Investigate Administrative Simplifications to the Ad Hoc Tenurability Process, 1998.

Tenurability Ad Hoc Committee, Fall 1997.

Chair of the Social Sciences Division and Member of the Campus-Wide Planning and Priorities Committee, September 1993 to June 1996.

GMI Library Liaison, 1995.

Professional Development Activities

AACSB Integrated Curriculum Conference, Baltimore, November, 2007.

Faculty Development in International Business, University of South Carolina, 2002.

Summer Workshop on Experimental Learning in Operations Management at Cornell University, 1994, 1996.

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INFORMS Conference, 1994, 1998, 2004.

POMS Conference, 1995.

Union College Workshop on Collaborative Learning, 1993.

Winter Simulation Conference, 1991.