VITA (December 31, 2012)
of
UTTARAYAN BAGCHI
Professor
The University of Texas at Austin

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4834 Twin Valley Drive

Austin, Texas 78731

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Department of Information, Risk, & Operations Management
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EDUCATION

Ph.D. The Pennsylvania State University, August 1982
Major: Operations Management

M.S. Washington State University, August 1978
Major: Chemistry

M.Sc. Indian Institute of Technology, Kharagpur, July 1976
Major: Chemistry

B.Sc. Indian Institute of Technology, Kharagpur, July 1974
Major: Chemistry

EMPLOYMENT

Assistant Professor, Department of Management (1982-1986), The University of Texas at Austin.
Associate Professor, Department of Management (1986-1992), The University of Texas at Austin.
Visiting Associate Professor (Summer 1989, Summer 1991), Helsinki School of Economics and Business Administration.
Professor, Department of Management (1992-2005), The University of Texas at Austin
Professor, Department of Information, Risk, & Operations Management (2005-), The University of Texas at Austin

HONORS AND AWARDS

Faculty Honor Roll, Fall 2010
EEM (Executive Engineering Management Program) Outstanding Faculty Award, August 2008
MSTC (Master of Science in Technology Commercialization Program) Outstanding Professor Award, May 2007
MSTC (Master of Science in Technology Commercialization Program) Outstanding Professor Award, May 2006 .
Core Faculty Honor Roll, Fall 2000, Spring 2001, Spring 2002 - McCombs School of Business.
Voted most effective professor by first-year MBA students, Fall 1995, Graduate Business Council, The University of Texas at Austin.
Joe D. Beasley Award for teaching excellence in the masters' curriculum, 1991, Graduate School of Business, The University of Texas at Austin.
Outstanding MBA Elective Professor, Fall 1990, Graduate Business Council, The University of Texas at Austin.
Outstanding MBA Core Professor, Spring 1985, Graduate Business Council, The University of Texas at Austin.

Best Outgoing Student, 1975-76, The Chemistry Society, Indian Institute of Technology, Kharagpur.
National Science Talent Search Scholar, 1971-76, Government of India.

TEACHING EXPERIENCE

The University of Texas, Austin (1982 -):

Undergraduate

OM 335 Operations Management
OM 337 Total Quality Management

Graduate

BA 380N Operations Management (MBA Core, HMBA Core, EMBA Core)
MAN 384 Operations Management (MBA Elective)
MAN 392 Sequencing and Scheduling (Ph.D. Seminar)
MAN 386 Management of Quality (MBA Elective)
STC 380 Converting Technology to Wealth (MS in Technology Commercialization)
STC 386T2 Risk Analysis (MS in Technology Commercialization)
ENM 383.2 Strategic Decision & Risk Analysis (MS in Engineering Management)

The Pennsylvania State University (1979-1982):

Undergraduate

MGMT 210 Operations Management
MGMT 410 Operations Planning and Control

Graduate

MGMT 510 Operations Management

DOCTORAL PROGRAM INVOLVEMENT

Chairman of Permanent Ph.D. Committee of:

Reza H. Ahmadi (Management), graduated May, 1988,

Member of Permanent Ph.D. Committee of:

Yih-Long Chang (Management) - Graduated May, 1985
Tapan K. Mallik (General Business) - Graduated August, 1985
H. V. Ravinder (Management) - Graduated May, 1986
Javad Ahmadi (General Business) - Graduated December, 1986
Chang Juck Suh (Management) - Graduated December, 1987
Manuel Laguna (Mechanical Engineering) - Graduated May, 1990
Samar Mukhopadhyay (Management) - Graduated December, 1990
Hongyu Li (Management) - Graduated May, 1992
Chon-Huat Goh (Management) - Graduated May, 1992
Wen-Hsien Chen (Management) - Graduated May, 1992
Tian-Shyug Lee (Mechanical Engineering) - Graduated December, 1993
Constantin Vaitsos (Management) - Graduated August, 1995
Isnoerwati Soejoto (Educational Administration) - Graduated May, 1996
John Chambers (Mechanical Engineering) - Graduated August, 1996
Anita Crockett (Nursing) - Graduated May, 1997
William Nanry (Mechanical Engineering) – Graduated May, 1998
Noreen Thomas (Education) – Graduated May, 1998
John Christopher Butler (Mgmt. Sci. and Info. Sys. – Graduated August, 1998
Shantanu Bhattacharya (Management) – Graduated August, 1998
Saurabh Gupta (Management) – Graduated December, 1998
Anand Paul (Management) – Graduated August 2000
Jeriad Zoghby (Mechanical Engineering) – Graduated December 2002
Michael Bradshaw (Education) – Graduated August 2003
Siwate Rojanasoonthon (Mechanical Engineering) – Graduated December 2003

Lily F. Tercero (Education) – Graduated May 2004
Karthik Ramachandran (IROM) – Graduated 2007
Sinan Erzurumlu (IROM) – Graduated 2007

M.B.A. PROFESSIONAL REPORT SUPERVISION

Long, S. A., August 1985, Reversing the Decline of American Industry
Thomas, B. F., August 1985, Robotics: Trends, Effects on Employment and Implications for Management.
Borsos, C. P., August 1986, A Manager's Guide to CAD/CAM.
Bequette, T. P., August 1986, Bar Code Technology: Applications in Manufacturing.
Miller, M. R., August 1986, Locating the Company Site: In Theory and in Practice.
Sellers, B. G., December 1986, The Role of Simulation Analysis in Computer Integrated Manufacturing.
Hersh, M. J., December 1986, Robots and FMS: A Managerial Overview.
Mourelatos, A. A., December 1986, Just-In-Time and Computer Integrated Manufacturing: Tools to Make American Manufacturing a Competitive Weapon.
Choong, I. W. K., December 1986, Development of an Expert System for Job-Shop Scheduling.
Braverman, S.J., December 1987, A Case Study in Project Scheduling.
Murphy, S. C., December 1988, An Examination of History, Characteristics and Competition in the Manufacturing Applications Sector of the Software Industry
Westby, J.M., December 1989, Selling the Factory of the Future.

REFEREED JOURNAL ARTICLES

Roundhill, D. M., W. B. Beaulieu and U. Bagchi. 1979. Kinetics and Mechanism of the Reaction of Palladium (II) Complexes of o-Diphenylphosphinothioanisole and o-Diphenylphosphino-selenoanisole with the Nucleophiles Thiocyanate and Iodide. Journal of American Chemical Society 101, 5428-5430.
Ord, J. K. and U. Bagchi. 1983. Truncated Normal-Gamma Mixture as a Distribution for Lead Time Demand. Naval Research Logistics Quarterly 30, 359-365.
Bagchi, U., J. C. Hayya and J. K. Ord. 1983. The Hermite Distribution as a Model of Demand During Lead Time for Slow-Moving Items. Decision Sciences 14, 447-466.
Bagchi, U. and J. C. Hayya. 1984. Demand During Lead Time for Normal Unit Demand and Erlang Lead Time. Journal of the Operational Research Society 25, 131-135.
Bagchi, U. 1984. A Note on Linearly Decreasing, Delay-Dependent, Non-Preemptive Queue Disciplines. Operations Research 32, 952-957.
Bagchi, U., J. C. Hayya and J. K. Ord. 1984. Modeling Demand During Lead Time. Decision Sciences 15, 157-176.
Bagchi, U. and R. S. Sullivan. 1985. Dynamic, Non-Preemptive Priority Queues with General Linearly Increasing Priority Function. Operations Research 33, 1278-1298.
Chang, Y. L., R. S. Sullivan, U. Bagchi and J. R. Wilson. 1985. Experimental Investigation of Real-Time Scheduling in Flexible Manufacturing Systems. Annals of Operations Research 3, 355-377.
Bagchi, U., R. S. Sullivan and Y. L. Chang. 1986. Minimizing Mean Absolute Deviation of Completion Times About a Common Due Date. Naval Research Logistics Quarterly 33, 227-240.
Bagchi, U., J. K. Ord and R. S. Sullivan. 1986. Parameter Estimation for Convolutions and Compound Distributions Operations Research Letters 4, 301-308.
Bagchi, U., J. C. Hayya and C. H. Chu. 1986. The Effect of Lead-Time Variability: The Case of Independent Demand. Journal of Operations Management 6, 159-177.
Bagchi, U., R. S. Sullivan and Y. L. Chang. 1987. Minimizing Mean Squared Deviation of Completion Times About a Common Due Date. Management Science 33, 894-906.
Bagchi, U. and R. H. Ahmadi. 1987. An Improved Lower Bound for Minimizing Weighted Completion Times with Deadlines. Operations Research 35, 311-313.

Bagchi, U. 1987. Modeling Lead Time Demand for Lumpy Demand and Variable Lead Time. Naval Research Logistics Quarterly 34, 687-704.

Bagchi, U., R. S. Sullivan and Y. L. Chang. 1987. Minimizing Absolute and Squared Deviations of Completion Times With Different Earliness and Tardiness Penalties and a Common Due Date. Naval Research Logistics Quarterly 34, 739-752.

Bagchi, U. 1989. Simultaneous Minimization of Mean and Variation of Flow Time and Waiting Time in Single Machine Systems. Operations Research 37, 118-125.

Ahmadi, R.H. and U. Bagchi. 1990. Improved Lower Bounds for Minimizing the Sum of Completion Times of n Jobs over m Machines in a Flow Shop. European Journal of Operational Research 44, 331-336.

Ahmadi, R.H. and U. Bagchi. 1990. Lower Bounds for Single Machine Scheduling Problems. Naval Research Logistics 37, 967-979.

Ahmadi, R.H. and U. Bagchi. 1992. Minimizing Job Idleness in Deadline Constrained Environments. Operations Research 5, 972-985.

Bagchi, U. and G. Gutierrez. 1992. Effect of Increasing Commonality on Service Level and Holding Cost. Naval Research Logistics 39, 815-832.

Bagchi, U., F.M. Julien and M.J. Magazine. 1994. Due Date or Deadline Assignment to Multi-Job Customer Orders. Management Science 40, 1389-1392.

Ahmadi, R.H., U. Bagchi and T.A. Roemer. 2005. Coordinated Scheduling of Customer Orders for Quick Response. Naval Research Logistics 52, 6, September, 493-512.

Hayya, J.C., U. Bagchi, J.G. Kim and D. Sun. 2008. On static stochastic order crossover. International Journal of Production Economics 114, 404-413.

Hayya, J.C., U. Bagchi and R. Ramasesh. 2011. Cost Relationships in Stochastic Inventory Systems: A Simulation Study of the ($S, S - 1, t = 1$) Model. International Journal of Production Economics 130, 196-202.

BOOK CHAPTERS

Bagchi, U., A. Guiffrida, L. O'Neill, A. Zeng, and J.C. Hayya. 2007. The effect of RFID on inventory management & control. Trends in Supply Chain Design and Management Technologies and Methodologies. Series: Springer Series in Advanced Manufacturing, Jung, Hosang; Chen, F. Frank; Jeong, Bongju (Eds.) ISBN: 1-84628-606-9.

PROCEEDINGS

Bagchi, U. 1981. Capacity Planning: An Inventory Theoretic Approach. Proceedings of the Southeast AIDS Conference, Charlotte, February 25-27.

Ord, J. K. and U. Bagchi. 1982. Truncated Distributions in Inventory Control. Proceedings of the American Statistical Association Meeting, Business Economics Section, Cincinnati, August 12-15.

Bagchi, U., J. K. Ord and J. C. Hayya. 1983. Distributions of Demand During Lead Time: Approximations and Aids to Decision Making. Proceedings of the American Statistical Association Meeting, Business Economics Section, Toronto, August 15-18.

Chang, Y. L., R. S. Sullivan and U. Bagchi. 1984. Experimental Investigation of Quasi Realtime Scheduling in Flexible Manufacturing Systems. Proceedings of the First ORSA/TIMS Special Interest Conference on Flexible Manufacturing Systems, Ann Arbor, August 15-17.

Bagchi, U., J. C. Hayya and C. H. Chu. 1984. Toward a Solution of the Problem of Lead-Time Variability. Proceedings of AIDS National Meeting, Toronto, November 5-7.

Bagchi, U. and J. C. Hayya. 2005. RFID, Inventory Costs, and Velocity Management. Proceedings of the IEEE International Conference on Service Operations and Logistics, and Informatics, Beijing, August 10-12.

PROFESSIONAL PRESENTATIONS

Bagchi, U. 1981. Capacity Planning: An Inventory Theoretic Approach. Southeast AIDS Conference, Charlotte, February 25-27.

Ord, J. K. and U. Bagchi. 1982. Truncated Distributions in Inventory Control. American Statistical Association Meeting, Cincinnati.

Bagchi, U. and J. C. Hayya. 1982. The Hermite Distribution As a Characterization of Demand During Lead Time. ORSA/TIMS Joint National Meeting, San Diego, October 25-27.

Bagchi, U., J. C. Hayya and J. K. Ord. 1982. On the Distribution of Demand During Lead Time. 14th Annual Meeting of AIDS, San Francisco, November 22-24.

Bagchi, U., R. S. Sullivan and J. K. Ord. 1983. Estimating the Parameters of Lead Time Demand. TIMS/ORSA Joint National Meeting, Chicago, April 25-27.

Bagchi, U., J. K. Ord and J. C. Hayya. 1983. Distribution of Demand During Lead Time: Approximation and Aids to Decision Making. American Statistical Association Meeting, Toronto, August 15-18.

Bagchi, U. and R. S. Sullivan. 1983. Sampling Distribution for Variable Sample Size. ORSA/TIMS Joint National Meeting, Orlando, November 7-9.

Bagchi, U. 1983. Compound Distributions for Slow-Moving Items. 15th Annual Meeting of AIDS, San Antonio, November 21-23.

Bagchi, U. and R. S. Sullivan. 1984. Linearly Decreasing Delay-Dependent, Priority Queuing Systems. TIMS/ORSA Joint National Meeting. San Francisco, May 14-16.

Bagchi, U. and J. C. Hayya. 1984. Distributions of Lead Time Demand When Demand Per Unit Time is Stuttering Poisson. ORSA/TIMS Joint National Meeting. Dallas, November 26-28.

Bagchi, U., R. S. Sullivan and Y. L. Chang. 1985. Minimizing Mean Squared Deviation of Completion Times About a Common Due Date. TIMS/ORSA Joint National Meeting. Boston, April 29-May 1.

Bagchi, U. 1986. Common Components and Deployment of Safety Stock. TIMS/ORSA Joint national Meeting. Los Angeles, April 14-16.

Ahmadi, R. H. and U. Bagchi. 1986. Minimizing Earliness Subject to Deadlines. TIMS/ORSA Joint National Meeting. Los Angeles, April 14-16.

Ahmadi, R. H. and U. Bagchi. 1986. Just-In-Time Scheduling in Single Stage Environments. ORSA/TIMS Joint National Meeting. Miami, October 27-29.

Bagchi, U. 1986. Simultaneous Minimization of Mean and Variation of Flow and Waiting Times. ORSA/TIMS Joint National Meeting. Miami, October 27-29.

Bagchi, U. 1987. Component Commonality and the Deployment of Safety Stock. TIMS/ORSA Joint National Meeting. New Orleans, May 4-6.

Ahmadi, R.H. and U. Bagchi. 1987. Just-In-Time Scheduling in Flow Shops. TIMS/ORSA Joint National Meeting. New Orleans, May 4-6.

Bagchi, U. 1987. Due Date or Deadline Assignment to Multi-Job Orders to Minimize Total Penalty in the One Machine Scheduling Problem. Operations Research Seminar, Department of Mechanical Engineering, The University of Texas at Austin, October 16. (Invited)

Bagchi, U. 1987. Due Date or Deadline Assignment to Minimize Total Penalty for the One Machine Scheduling Problem. ORSA/TIMS Joint National Meeting. St. Louis, October 25-28. (Invited)

Mukhopadhyay, S.K. and U. Bagchi. 1989. Optimal Quality Path and Its Effect on the Market Share During the Life Cycle of a Product. ORSA/TIMS Joint National Meeting. New York, October 16-18. (Invited)

Mukhopadhyay, S.K. and U. Bagchi. 1989. Robustness and Sensitivity Analysis of Schedules. ORSA/TIMS Joint National Meeting. New York, October 16-18. (Invited)

Ahmadi, R. and U. Bagchi. 1990. Scheduling of Multi-Job Customer Orders in Multi-Machine Environments. ORSA/TIMS Joint National Meeting. Philadelphia, October 29-31. (Invited)

Bagchi, U. 1990. On Some Non-Traditional Scheduling Problems. Decision Systems Laboratory, Texas Instruments, Inc., Dallas, December 12. (Invited)

Bagchi, U. 1991. On Some Non-Traditional Scheduling Problems. The Pennsylvania State University, February 25. (Invited)

Bagchi, U. 1991. Scheduling of Multi-Job Customer Orders. Operations Research Seminar, Department of Mechanical Engineering. The University of Texas at Austin, April 17. (Invited)

Bagchi, U. and S.K. Mukhopadhyay. 1991. What is Product Quality?. TIMS/ORSA Joint National Meeting. Nashville, May 12-15. (Invited)

Mukhopadhyay, S.K. and U. Bagchi. 1991. Scheduling with Incomplete Information. TIMS/ORSA Joint National Meeting. Nashville, May 12-15. (Invited)

Bagchi, U. 1991. Multi-job Customer Order Scheduling. Duke University, November 13. (Invited)

Bagchi, U. 1992. Total Quality Management in Higher Education. The Pennsylvania State University, March 20. (Invited)

Bagchi, U. 1992. Total Quality Management in Higher Education. ITESM - Campus Morelos, Mexico, April 10. (Invited)

Bagchi, U. 1993. Teaching Topics Related to Quality Management to MBA Students. ORSA/TIMS Joint National Meeting. Phoenix, October 31- November 3. (Invited)

Bagchi, U. and S. Gupta. 1995. Toward a Theory of Process Orientation. TIMS/ORSA Joint National Meeting. Los Angeles, April 23-April 26.

Ahmadi, R. and U. Bagchi. 1996. Scheduling of Customer Orders with Due dates. INFORMS Atlanta, November 3-6., (Invited)

Gupta, S. and U. Bagchi. 1997. What is Process Orientation? INFORMS Dallas, October 26-29.

Bagchi, U. 1998. Total Quality Management for Engineering and Business. ITESM - Campus Queretaro, Mexico. October 23. (Invited)

Bagchi, U. 1999. Owning Your Business or Leading a Company: Strategies for Personal Growth and Success. Universidad Iberoamericana Plantel Golfo-Centro, Puebla, Mexico, April 23. (Invited)

Bagchi, U. 1999. Assembly Scheduling Problems with Two or Three Stages. INFORMS Cincinnati, May 2-5. (Invited)

Bagchi, U. 1999. Total Quality Management for Engineering and Business. Instituto Technologico de Morelia, Michoacan, Mexico, September 24. (Invited)

Bagchi, U. 1999. Assembly Scheduling Problems with One or More Stages. Indian Institute of Management, Calcutta, December 14. (Invited)

Bagchi, U. 1999. Toward a Theory of Operations Management. POMS-India Conference, Indian Institute of Technology, New Delhi, December 21-24.

Bagchi, U. 1999. Delivering Quality in Higher Education: A Road Map for the Faculty. International Conference on Delivering Service Quality: Managerial Challenges for the 21st Century, Indian Institute of Management, Ahmedabad, December 28-29.

Bagchi, U. 2000. Assembly Scheduling Problems. Pennsylvania State University, September 8.

Bagchi, U. 2003. Three-Stage Scheduling of Customer Orders. EURO/INFORMS Istanbul, July 10.

Bagchi, U. 2004. Toward a Theory of Operations Management. MSOM Eindhoven, July 1-2.

Bagchi, U. and J. C. Hayya. 2005. RFID, Inventory Costs, and Velocity Management. IEEE SOLI Beijing, August 10-12.

Bagchi, U., A. Guiffrida and J.C. Hayya. 2006. Identification Technologies and Inventory Costs. INFORMS International, Hong Kong, China, June 25-28.

Bagchi, U. New Results for the Two- and Three-Stage Assembly Flowshop Scheduling Problems. MSOM International. Beijing, June 18-19, 2007.

Bagchi, U. Laws of Operations. POM Tokyo, August 5-7, 2008.

Bagchi, U. The Two- and Three-Stage Assembly Flowshop Scheduling Problem. EURO Bonn, July 7, 2009

Bagchi, U., A. Dutta and J.C. Hayya. 2010. Knowledge Management or Knowledge Leadership. ALIO/INFORMS Buenos Aires, June 6-9.

Bagchi, U. 2010. Delivering Student Satisfaction in Higher Education: A QFD Approach. ICSSSM Tokyo, Japan, June 28-30.

Bagchi, U., A. Dutta and J.C. Hayya. 2011. Knowledge Leadership: Why, What and How? IFORS Melbourne, July 8-12.

Bagchi, U. 2012. Scheduling the Assembly Flow Shop to Minimize Makespan. INFORMS International, Beijing, June 24-27.

ADMINISTRATION

DEPARTMENT OF MANAGEMENT

Operations Management Area Faculty Coordinator--(1986-91)
Executive Committee--(1984-89)
Executive Committee (ex officio)--(1990-91)
Graduate Studies Committee Chairman--(Sept. 1990 - Dec. 1993)
Associate Department Chairman--(Sept. 1990 - June 1991)
Department Chairman--(July 1991 - Jan. 15, 1994)
Faculty Advisor to the Quality Management Consortia—(Jan. 1996-2001)

DEPARTMENT OF INFORMATION, RISK, & OPERATIONS MANAGEMENT

OM Area Faculty Coordinator—(Sept. 2008-)
OM Area Faculty Director – (March 2012 -)

COLLEGE

Graduate School of Business Standing Committee--(1986-88)
MBA Core Course Coordinator—Operations Management (1987-93, 94-)
MBA Curriculum Revision Task Force--(1992)
Chairman, MBA Core Council-- (1998-2000)
College of Business Administration Teaching Awards Committee--(1994, 1996, 1997)
CBA Honors Program (2002-2003)
MBA Core Council--(1992-93, 1994-2003)
MBA Scholarship Committee (2003)

UNIVERSITY

University Parking and Traffic Panel--(1987-89)
UT/IBM Total Quality Management Proposal Task Force--(1992)
Continuing University Fellowship Committee—(1997-99)
Graduate Studies Committee (MSSTC Program)—(1999-2010)
Faculty Welfare Committee (Vice-Chair)-(2009-2010)
Faculty Welfare Committee (Chair) – (2010-2011)
Parking and Traffic Appeals Committee – (2011-2012)

PROFESSIONAL ACTIVITIES

Associate Editor for Decision Sciences (August 1986-December 1989)
Editorial Board Member for International Journal of Advanced Operations Management (October 2008 -)

Referee for Management Science, Operations Research, Decision Sciences, Naval Research Logistics, Engineering Economist, European Journal of Operations Research, Journal of Operations Management, Decision Support Systems, IIE Transactions, INFORMS Journal on Computing, Manufacturing and Service Operations Management, International Journal of System Sciences

Book Reviewer for West, Dryden Press, Addison-Wesley, Prentice-Hall and Macmillan

Proposal Reviewer for National Science Foundation.

EXECUTIVE EDUCATION

Dr. Bagchi has conducted numerous management development programs both in this country and abroad in a variety of topic areas including world-class manufacturing, business process redesign, quality deployment and implementation, service quality, customer service, project management, risk analysis, supply chain management and service operations management.

PROFESSIONAL ORGANIZATION MEMBERSHIP

Institute for Operations Research and the Management Sciences
Production and Operations Management Society