

SUMMARY PAGE

BHABA R. SARKER

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INTERESTS: Production and Manufacturing Systems Engineering: Production Planning & Control, Flexible/Cellular Manufacturing Systems, Material Handling, Scheduling, Location Theory, JIT Inventory Systems, Warehouse Logistics and Distribution, Lean Manufacturing, Supply Chain Management, Military Logistics, and Renewable Energy.

EDUCATION:

<i>PhD (IE)</i>	Texas A&M University , College Station, TX (1989)
<i>IEngr</i>	Syracuse University , Syracuse, NY (1982)
<i>MS (Eng. Admin)</i>	Syracuse University , Syracuse, NY (1979)
<i>MTech (IE & OR)</i>	Indian Institute of Technology , Kharagpur, India (1976)
<i>BScEngg (Mech)</i>	Bangladesh Univ. of Eng. and Technology , Dhaka (1974)
<i>BA (Distinction in Math)</i>	University of Dhaka , Bangladesh (1972).

P. E. **Professional Engineer** (Louisiana License #32879), December 21, 2006
FELLOW **Institute of Industrial Engineers (USA)**, May 20, 2003.

EXPERIENCE:

<i>Teaching:</i>	Louisiana State University, Baton Rouge, LA	22.0 years
	Texas A&M University, College Station, TX	3.0 years
	The University of Texas at Austin, TX	1.5 years
	Centralia College, Centralia, WA	1.5 years
	Bangladesh Management Development Center, Dhaka	1.5 years
<i>Industrial:</i>	NASA (MSFC, KSC and JSC)	6 months
	US Army Corps of Engineers, Vicksburg, MS	9 months
	World Bank, Washington, DC	6 months
	Energy Research Center, OU-Norman, OK	1 year
	Jay Engineering Company, Calcutta, India	5 months
	GODREJ & Boyce Mfg. Company, Bombay, India	3 months

PUBLICATIONS:

<i>Textbook (Production & Supply Logistics Systems)</i>	1 Manuscript
<i>Book Chapters</i>	6 Papers
<i>Book Reviews</i>	14 Textbooks
<i>Refereed Journal Articles</i>	113 Papers
<i>Conference Proceedings</i>	65 Papers
<i>Conference Presentations</i>	75 Papers
<i>Symposiums/workshops attended</i>	25 Attendance
<i>Invited lectures/Conducted workshops</i>	27 Lectures
<i>Papers under Review by Journals</i>	13 Papers
<i>Total number of citations in ISI database</i>	1,527 Citations

NATIONAL AWARDS: 2006 IIE David F. Baker Distinguished Research Award
Best Dissertation Awards from IIE (1991), DSI (1990) and POMS (1990).

EDITORIAL BOARDS: IIE Trans, C&OR, EJOR, IJPR, IJPE, IJPAMS, PPC, APJOR, and JAMDS.

IIE RECOGNITION: Supervised MS thesis won Graduate Research Award (two times).

TEACHING AWARDS: Most Valuable Professor, IE Professor of the Year and Dean's Recognition.

CITATION/SCHOLAR.: United Nations Scholar, cited by Voice of America, Who's who in America, etc.

SPONSORING AGENCIES: NSF, ARO, NASA USACE, ONR, LEQSF, IBM, and Pritsker Associates.

THESIS SUPERVISION: PhD: 5 (Completed), 3 (Advising); MS: 25 (Completed) + 1 (Advising).

SOCIETY MEMBERSHIP: ASEE, DSI, IEEE, IIE, INFORMS, POMS, AAUP, and NY Academy of Sc.

NATIONALITY: U. S. Citizen.

BHABA RANJAN SARKER

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USA
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RESEARCH AND TEACHING INTERESTS:

Production and Manufacturing Systems Engineering: Production Planning & Control, Flexible/Cellular Manufacturing Systems, Material Handling, Scheduling, Location Theory, JIT Inventory Systems, Warehouse Logistics and Distribution, Lean Manufacturing, Supply Chain Management, Military Logistics, and Renewable Energy Systems.

Secondary Teaching Interests:

Linear and Nonlinear Programming, Network Optimization, Queuing Theory, Applied Probability and Statistics, Quality Control, Reliability Engineering and Systems Simulation.

EDUCATION:

<i>PhD (IE)</i>	Texas A&M University , College Station, TX <i>Major: Industrial Engineering (1989)</i>
<i>IE (Engr)</i>	Syracuse University , Syracuse, NY <i>Major: Post-MS Degree of Industrial Engineer (1982)</i>
<i>MS (Eng. Admin.)</i>	Syracuse University , Syracuse, NY <i>Major: Engineering Administration (1979)</i>
<i>MTech (IE&OR)</i>	Indian Institute of Technology , Kharagpur, India <i>Major: Industrial Engineering & Operations Research (1976)</i>
<i>BScEngg (Mech)</i>	Bangladesh University of Engineering & Technology , Dhaka <i>Major: Mechanical Engineering (1974)</i>
<i>BA (Arts & Math)</i>	University of Dhaka , Dhaka, Bangladesh <i>Major: General Arts, with distinction in Mathematics (1972).</i>

P.E. **Professional Engineer** (Louisiana License #32879), December 21, 2006
FELLOW **Institute of Industrial Engineers (USA)**, May 2003.

Dissertation/Theses:

Ph.D. Dissertation: "The Amoebic Matrix and One-Dimensional Machine Location Problems," Department of Industrial Engineering, Texas A&M University, College Station, TX 77843, September 26, 1989 (345 pages); *UMI #DA90-15575*, **51**(1), July 1990, p. 369B, [Co-advisors: Prof. Wilbert E. Wilhelm and Prof. Gary L. Hogg]. **Best Dissertation Awards.**

I.Engr. Thesis: "A Generalized Approach for Serial or Parallel Line Balancing," Department of Industrial Engineering and Operations Research, Syracuse University, May 1, 1982 [Advisor: Professor J. G. Shanthikumar, University of California, Berkeley, CA].

M.Tech. Thesis: "A Comparative Study of Some Assembly Line Balancing Techniques," Indian Institute of Technology, Kharagpur, June 15, 1976 [Advisor: Professor N. Prakasa Rao].

B.Sc.Engg. Thesis: "Buckling under Eccentric Tensile Load," Bangladesh University of Engineering and Technology, Dhaka, January 10, 1974 [Advisor: Professor Anwar-ul Karim].

1. EXPERIENCES AND WORK HISTORY:

LOUISIANA STATE UNIVERSITY, BATON ROUGE, LA

Department of Industrial Engineering

Coordinator, IE Graduate Program and Admissions

July 2011 – Present

Professor-in-Charge, Logistics & Supply Chain Systems

July 2002 – Present

Coordinator, IMSE Graduate Program

Jan 2000 – June 2002

Elton G. Yates Distinguished Professor of Engineering

July 2003 – Present

Professor

August 2000 – June 2003

Associate Professor

Aug 1996 – Aug 2000

Assistant Professor

Aug 1990 - Aug 1996

Teaching/research in the area of production and manufacturing systems, just-in-time inventory systems, supply chain management, lean production systems, simulation, sequencing and scheduling, location theory, and operations research.

U.S. ARMY CORPS OF ENGINEER RESEARCH AND DEVELOPMENT CENTER, Vicksburg, MS:

Geotechnical Laboratory—Mobility Systems Modeling Branch

Summer Faculty Research Fellow

May 2004 – Aug 2004

Computation of transportation network capacity from sparse data sources. Methods are developed to estimate the arc/route capacity for network various characteristics and terrain conditions, to evaluate the network throughput rate emanating from a seaport or airport.

LOUISIANA STATE UNIVERSITY, BATON ROUGE, LA

Department of Industrial and Manufacturing Systems Engineering

Graduate Program Coordinator

Jan 2000 – June 2002

To administer the IMSE Graduate Program of about 70-80 students of which about 15-20 were doctoral students. Processing admissions, assistantships, monitoring students' progress, graduate assignments, and updating graduate curriculum.

NASA JOHNSON SPACE CENTER, HOUSTON, TX

Safety, Reliability and Quality Assurance Office (JSC):

Summer Faculty Fellow

May 2002 – Aug 2002

Diagnosis, identification, and evaluation of human factors errors, and *process failure modes and effects analysis (PFMEA)* for efficient and effective operations of Space Shuttle systems.

NASA MARSHALL SPACE FLIGHT CENTER/KENNEDY SPACE CENTER:

Systems Management Office (MSFC), and

Process Integration Office (KSC):

Summer Faculty Fellow

May 2001 – Aug 2001

Task assessments and development of a roadmap for research on second-generation space launch initiatives and reusable launch vehicle. Study of Orbiter Processing Facilities at KSC.

U.S. ARMY CORPS OF ENGINEERS - *Waterways Experiment Station*, Vicksburg, MS:

Hydraulics Laboratory—Estuaries Division:

Summer Faculty Research Fellow

May 1996 – Aug 1996

Time series analysis and system simulation for an estuarial system to predict the effect of salinity and other fluid pollutants in oceanographic and riverine systems.

U.S. ARMY CORPS OF ENGINEERS - *Waterways Experiment Station*, Vicksburg, MS:

Geotechnical Laboratory—Mobility Systems Branch

Summer Faculty Research Fellow

May 1993 – Aug 1993

Conceptualization of army mobility problems--engineer resources planning for roads and bridges during the military operations in global mapping system

TEXAS A&M UNIVERSITY, College Station, TX

Department of Industrial Engineering

Assistant Professor (Visiting)

Jan 1990 - May 1990

Lecturer and Graduate Assistant

Sep 1987 - Dec 1989

Taught undergraduate courses on Production Control Systems which dealt with production planning, inventory control, and scheduling. Conducted LAB and problem session.

THE UNIVERSITY OF TEXAS AT AUSTIN, Austin, TX

Department of Management

Instructor

Jan 1986 - Aug 1987

Taught a course on Production Management designed for junior and senior level students in business management and engineering. The class sizes were between 21 and 60 students.

CENTRALIA COLLEGE, Centralia, WA

Division of Business Management and Computer Science

DP & CS Instructor

Aug 1984 - Dec 1985

Developed and taught courses in BASIC, COBOL, FORTRAN, CIS, Computer Logic, Systems Analysis, and developed vocational training programs in business and engineering.

THE UNIVERSITY OF OKLAHOMA, Norman, OK

Department of Industrial Engineering and Energy Resources Center

Research /Teaching Assistant

Sep 1983 - Jul 1984

Research Assistant

Jan 1983 - May 1983

Developed energy storage model for electronic power systems for over-production of electric power. Performed statistical analysis and used SAS at Stat Lab in Energy Research Center.

WORLD BANK, Washington, DC

East-African Region

Systems Analyst

May 1983 - Sep 1983

Enhanced programs and graphics, and maintained a package HANDE used for analytical work in economics, finance and accounting for about 2000 program officers in the bank. Improved the data array and the statistical output tables for the package.

OKLAHOMA STATE UNIVERSITY, Stillwater, OK

Department of Industrial Engineering and Management

Halliburton Research Assistant

Sep 1981 - Dec 1982

Explored the possible use of MOVIE.BYU for application to product design and layout. Used assembly language on microprocessor for process control; extended to other applications.

WORLD BANK, Washington, DC

Central Procurement Unit

Systems Analyst

May 1980 - Aug 1980

Developed an MIS for repetitive procurement materials to use in operations and planning. Classified most frequent items; used ABC analysis for classification; forecasting and analyzing the price trend for steel market.

SYRACUSE UNIVERSITY, Syracuse, NY

Department of Industrial Engineering and Operations Research

Research /Teaching Assistant

Jan 1980 - Aug 1981

Responsible for modeling and analysis of software life cycle costs. Used APL, FORTRAN, SPSS, SURFACE-II and graphics packages. Taught courses on introductory probability and statistics

BANGLADESH MANAGEMENT DEVELOPMENT CENTER, Dhaka

Productivity and Vocational Training Division

Management Counselor & Head of Division

Jan 1977 - Sep 1978

Developed, coordinated and taught practice-oriented courses in Production and Materials Management, QC, Work Study, Quantitative Decision Analysis, and Plant Layout. Guided industrial training programs and implemented many IE techniques in different industries.

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, Dhaka
Department of Mechanical Engineering

Research Fellow

Jul 1976 - Dec 1976

Study of information system on spare parts availability and production for improved utilization of production facilities for textile companies [PD: Dr. M. Anwarul Azim].

JAY ENGINEERING COMPANY, Calcutta, India

Usha Fan Factory (Fan Assembly Line)

Graduate Thesis Intern

Jan 1976 – June 1976

Developed operation standards. Forecast demand to integrate multi-shift schedules. Balanced and re-designed a multi-model assembly line for varying production rates. Analyzing alternative workforce schedules.

GODREJ AND BOYCE MANUFACTURING COMPANY, Bombay, India

Filing Cabinet and Cupboard Plant

Graduate Summer Intern

May 1975 - Jul 1975

Developed time-scaled utilization profile of a bending press shop. Identified delays, determined line efficiency by flow analysis. Standardized the operations and estimated manpower on the line.

KARNAPHULI ELECTRIC COMPANY

Manufacturing Plant and On-Site Workshop

Mechanical Engineer

Jan 1974 - Sept 1974

Design and supervised mechanical fabrication and construction of different power transmission materials like electric transmission poles, cantilever hanger, supervision rod, ladder, etc. In the fabrication shop, he was in charge of two supervisors and 15-20 workers.

(A) NON-TECHNICAL (JOURNALISM) EXPERIENCE:

The Bangladesh Observer (A Daily Newspaper in Dhaka)

BUET (Varsity) Reporter

Jan 1969 - Dec 1972

Reporting news (academic, students' affairs, cultural affairs, and political events on campus) and feature articles on students' residential problems from within and/or relating to Bangladesh University of Engineering and Technology (BUET).

(B) INTERNATIONAL COLLABORATION:

Bangladesh University of Engineering and Technology (BUET), Dhaka

Visiting Professor

Dec 2003 - Jan 2004

Conducted 10-day workshop on developing research capability in supply chain management under AIBS (American Institute of Bangladesh Studies) Fellowship Program for about 20 faculty members of all technical universities in Bangladesh.

Bangladesh University of Engineering and Technology (BUET), Dhaka

Visiting Professor

Dec 2005 - Jan 2006

Offered an accelerated graduate level course on Supply Chain Management to 28 graduate students at BUET. Most participants were full-time junior faculty and part-time industrial engineers from various industries.

Sun Yat-Sen University (SYSU), Guangzhou 510275, Guangdong, PR China

Visiting Scholar

Dec 10, 2009 – Dec 26, 2009

Department of Management Sciences, School of Business, SYSU, Guangzhou, Guangdong, China (Collaborated on research in supply chain management, on an International Exchange & Cooperation Program of China).

International Collaboration on NSF/La EPSCoR Project, China and Hong Kong

Delegation Member

July 8, 2011 – July 31, 2011

Delegation to 8 universities in China (Tsinghua, CUFU, Beihang, Shanghai Jiao-Tong, Fordan, HUST, Wuhan UST, Sun-Yat Sen) and 3 universities in Hong Kong (HKPoly, HKUST, City U of HK) for three weeks (Collaborated on research in supply chain management, on an International Exchange & Cooperation Program of China).

2. EDITORIAL BOARDS/PROFESSIONAL MEMBERSHIP

(A) MEMBER OF PROFESSIONAL SOCIETIES:

Past Membership:

- American Association of Bangladesh Engineers, Member (1990-94)
- Society of Manufacturing Engineers, Member (1992-96)
- Production and Operations Management Society (POMS), Member (1990-2001)
- Ahsanullah (BUET) Engineering Association, Kolkata, India (1995-2003)
- Institute of Electrical and Electronics Engineers, Member #402-24396 (1997-2006)

Current Membership:

- Alpha Pi Mu Honor Society, Life Member (1994-)
- American Society of Engineering Education, Member #38260 (1996-)
- Decision Sciences Institute (DSI), Member (1987-)
- DSI-Southwest Federation of Administrative Disciplines (SWFAD), Member (1992-)
- Institute For Operations Research and Management Science, Full Member #172202 (1978-)
- Institute of Industrial Engineers (IIE), *Fellow* #463-1247 (2003-)
- New York Academy of Sciences, Member #49-1884 (1998-).
- Louisiana Engineering Society, Member (2007-)
- National Society of Professional Engineers, USA Member #300 00 8504 (2007-)
- American Association of University Professors (AAUP, Membership #9909005), 2009-

P.E. Professional Engineer (Louisiana License #32879). December 21, 2006

(B) EDITORIAL BOARD MEMBERSHIP:

Served Previously:

- *Asia-Pacific Journal of Operational Research* (Area Editor, 2000-2006)
- *Computers & Operations Research* (Member of Editorial Board, 2002-2006)
- *European Journal of Operational Research* (Member of Editorial Board, 2003-2010)
- *IIE Transactions on IE Research* (Area Editor, 1993-96),
- *IIE Transactions on Operations Engineering* (Associate Editor, 1996 -2001),
- *IIE Transactions on Design and Manufacturing* (Department Editor, 2001-2009)
- *International Journal of Production Research* (Member of Editorial Board, 2002-2005)
- *Journal of Manufacturing Systems* (Associate Editor, 2001-2003)
- *Production & Operations Management* (Member of Editorial Review Board, 1992 -99).
- *Journal of Applied Mathematics and Decision Sciences* (Associate Editor, 2000-2009)

Serving Currently:

- *Advances in Decision Sciences* (Editorial Board, 2009-)
- *American Journal of Operations Research* (Editorial Board, 07/2011-)
- *International Journal of Production Economics* (Associate Editor, 1998-)

- *International Journal of Pure and Applied Mathematical Sciences (2004-)*
- *International J. of Logistics and Transportation Research (Editorial Board 2011-)*
- *International J. of Service and Computing Oriented Mfg. (Editorial Board 2011-)*
- *Production Planning & Control (Member of Editorial Board, 1991-)*

3. AWARDS/PRIZES/RECOGNITION

(A) NATIONAL/INTERNATIONAL PROFESSIONAL SOCIETY AWARDS:

- FELLOW** ***Institute of Industrial Engineers (USA), 2003***
 Awarded by the IIE in Hilton Portland, OR; May 20, 2003 (See *Industrial Engineering* magazine, Vol. 35, No. 6, June 2003).
- P.E.** **Professional Engineer** (Louisiana License #32879), December 21, 2006

(B) NATIONAL/INTERNATIONAL RESEARCH AWARDS:

- WINNER** ***IIE: David F. Baker Distinguished Research Award, 2006***
 Awarded (only one award per year) by the Institute of Industrial Engineers, in Orlando, FL, May 21, 2006 (*Industrial Engineer*, **38**(7), July 2006, pp. 56-57; *Decision Line*, **37**(4), July 2006, p. 13; *OR/MS Today*, **33**(4), July 2006, p. 59). [Highest recognition by IIE for significant contributions to the advancement and progress of the industrial engineering profession through outstanding research. It is given for a career of accomplishments that have broadly benefited practitioners, organizations or other researchers, rather than for a single activity or application].
- WINNER** ***IIE: Best Doctoral Dissertation Competition, 1991***
 Awarded by the Institute of Industrial Engineers, in Detroit, MI, May 22, 1991 (*Industrial Engineering*, Vol. 23, No. 6, June 1991).
- WINNER** ***DSI: Elwood S. Buffa Doctoral Dissertation Competition, 1990***
 Awarded by Decision Science Institute in San Diego, CA, November 20, 1990 (*Decision Line*, Vol. 22, No. 1, December-January 1991, pp. 27-28).
- RUNNER-UP** ***POMS: Best Doctoral Dissertation Competition, 1990***
 Awarded by Production and Operations Management Society in Washington, DC, October 16, 1990 (*POM Chronicle*, Vol. 2, No. 1, Winter 1991, p. 3).

(C) TEACHING/RESEARCH AWARDS:

- IE Outstanding Professor of the Year (April 28, 2010)***
 For excellent teaching and research at Department of Construction Management & Industrial Engineering, Louisiana State University (organized by Alpha Pi Mu Honor Society and selected by popular votes of graduate and undergraduate students).

- Rainmakers Award, LSU (2008)***
 Recognized with the *Rainmaker Award* that is selected for outstanding research at Louisiana State University, Baton Rouge, LA; October 15, 2008.

Recognition by Dean (1991, 1994, 1996)

For outstanding teaching at the College of Engineering, Louisiana State University (based on students' evaluation).

IE Professor of the Year (1992)

For excellent teaching at the Department of Industrial & Manufacturing Systems Engineering, Louisiana State University (selected by popular votes of graduate and undergraduate students and organized by Alpha Pi Mu Honor Society).

Most Valuable Professor Award (1989)

For excellent teaching at the Department of Industrial Engineering, Texas A&M University (selected by popular votes of graduate and undergraduate students, and organized by Alpha Pi Mu Honor Society).

(D) SERVICE AWARDS:

20-year Service Award:

Given in recognition of 20-year service at LSU for dedicated commitment and loyal service, May 2010.

15-year Service Award:

Given in recognition of 15-year service at LSU for dedicated commitment and loyal service, May 2005.

10-year Service Award:

Given in recognition of 10-year service at LSU for dedicated commitment and loyal service, May 2000.

(E) RECOGNITION FOR SUPERVISED RESEARCH:

1. Second Prize ***1995 IIE Graduate Research Award*** to Vijay S. Nori for the MS Thesis "A Branch and Bound Approach to Solve One-dimensional Machine Location Problem," (Supervisor: Bhaba Sarker) awarded at the Industrial Engineering Conference, Nashville, TN; May 23, 1995.
2. **Citation of Excellence** by the ANBAR Hall of Excellence for highest quality paper, September 1999: Sarker, B. R., and Mondal, S., "Grouping efficiency measures in cellular manufacturing: A survey and critical review," *International Journal of Production Research*, Vol. 37, No. 2, February 1999, pp. 285-314.
3. Second Prize ***2001 IIE Graduate Research Award*** to Ahmad Diponegoro for the MS Thesis entitled "Machine location in a multi-product flowline," (Supervisor: Bhaba Sarker) awarded at the Industrial Engineering Solutions Conference, Dallas, May 21, 2001.

(F) RECOGNITION BY LEARNED COMMUNITY:

1. *1994 Who's Who Among Asian Americans* (Gale Research, Inc.),
2. Listed in *International Directory of Distinguished Leadership*, 5th ed., 1994-1995,
3. Listed in the *Most Admired Men and Women of the Year 1994-95*, 2nd edition, American Biographical Institute, Inc.

4. Listed in *Who's Who in Science and Engineering* (5th and 6th editions, 2000-2001), Marquis Publications, New Providence, NJ 07974.
5. Listed in *Who's Who in America* (55th edition, 2001; 58th edition 2004), Marquis Publications, New Providence, NJ 07974.
6. Listed in *Strathmore's Who's Who* (2000-2001 edition), Strathmore Directories Ltd., Westbury, NY 11590.
7. *INFORMS Speakers Bureau Member* (November 2001 -): Manufacturing Systems, Just-in-time Production, Supply Chain Systems, Job Routing and Machine Locations and Cellular Manufacturing.
8. Listed in *Who's Who in Engineering Education (WWE)*, 2002 edition.

(G) CITATIONS BY PUBLIC/MASS MEDIA

1. *Voice of America (Radio Broadcast) - East Asia Bengali Program*, Washington, DC: A personal interview on “The Dissertation Competition by DSI and POMS,” conducted and broadcast by Sarkar Kabiruddin, November 15, 1990 (10 AM-11 AM EST, and 10. PM - 11 PM Bangladesh Standard Time).
2. *Voice of America (Radio Broadcast) – South-East Asia Bengali Program*, Washington, DC: A personal interview on “David F. Baker Distinguished Research Award,” conducted and broadcast by Roquia Haider, May 23, 2006 (11 AM-12 AM EST, and 10. PM - 11 PM Bangladesh Standard Time, VOA-I).
3. *The Thikana*, A Bengali newspaper from New York, NY published a feature news item under the caption “*Bangali Engineer Won the National Award*” reported by ENA (Eastern News Agency) from Florida on “David F. Baker Distinguished Research Award” given by IIE [*The Thikana*, Friday, May 26, 2006 issue; page 29, Column 1].

(H) FELLOWSHIP AND SCHOLARSHIP AWARDS:

- National Merit Scholar (Bangladesh), 1965-1973.
- Indian Post-Graduate Fellowship, 1974-1976.
- United Nations Development Program (UNDP) Fellowship, 1978-1980.
- USACE-WES Summer Faculty Fellowship (ERDC, Vicksburg, MS), 1993
- USACE-WES Summer Faculty Fellowship (Geo-Tech Lab, Vicksburg, MS), 1996
- NASA-ASEE Summer Faculty Fellowship (Marshall Space Flight Center), 2001
- NASA-ASEE Summer Faculty Fellowship (Johnson Space Center), 2002
- USAC-ERDC, Summer Faculty Fellowship (Vicksburg, MS), 2004.
- Fellowship, American Institute of Bangladesh Studies (AIBS), USAID program in USA.

(I) WORLD TOP 20 MOST PRODUCTIVE RESEARCHER/AUTHOR IN POM (1959-2009): A SURVEY

[Hsieh P.-N. and Chang, P.-L., “An assessment of world-wide research productivity in production and operations management,” *International Journal of Production Economics*, August 2009, **120**(2): pp. 540-551]:

World-wide Rank (Bhaba Sarker):	6 th in POM* (1999-2009)
World-wide Rank (Bhaba Sarker):	10 th in POM (1989-1998)
World-wide Rank (Bhaba Sarker):	17 th in POM (1959-2009)
World-wide Rank (Bhaba Sarker):	20 th in 5 leading POM journals (1959-2009)

*POM's (Production and Operations Management) five leading journals (based on *h*-index): *Management Science*, *Operations Research*, *European Journal of Operational Research*, *International Journal of Production Research*, and *Mathematics of Operations Research*.

4. PUBLICATIONS AND PUBLIC DISSEMINATIONS:

(A) TEXTBOOKS:

1. Sarker, B. R., *Production and Supply Logistics Systems* (500-600 printed pages: manuscript under preparation, 70% completed; publisher under negotiation; for **graduate level**), Intended publication: Summer 2011.

(B) BOOK CHAPTERS WRITTEN:

1. Sarker, B. R., Wilhelm, W. E., Hogg, G. L. and Han, M. H., "Backtracking of Jobs and Machine Locations Problems," *Progress in Material Handling and Logistics: Material Handling '90*, Vol. 2, Eds. John A. White and Ira W. Pence (Springer-Verlag, Berlin; ISBN: 0-387-53442-2), January 1991, Section 2, pp. 117-141 [35 pages].
2. Sarker, B. R., Xu, Y. and Li, Z., "Job routing in a multi-product manufacturing system" in *Progress in Material Handling Research: 1998*, Eds. Robert J. Graves, Leon F. McGinnis, Debra J. Medeiros, Richard E. Ward and Mickey R. Wilhelm (Braun-Brumfield, Inc., Ann Arbor, MI; ISBN: 1882780-03-5), June 1998, pp. 481-505 [15 pages].
3. Sarker, B. R., Webster, D. B., and Ray, T.G., "Production Planning" (Chapter 4 in Part 1) in *Mechanical Engineer's Handbook: Manufacturing and Management*, 3rd Edition, 2006, ISBN: 13-978-0-471-44990-4, Edited by Myer Mutz, John-Wiley & Sons, Inc., New York, NY; pp. 110-172 [63 pages].
4. Sharma, P. Sarker, B. R., and Romagnoli, R.A., "Integrated Framework for Enterprise Management—A Synergistic Approach Towards Sustainable Biorefineries," (Chapter 11; 6 pages) in 20th *European Symposium on Computer Aided Process Engineering* (ISBN: 978-04-4453-5691), Volume 28 (*Computer-Aided Chemical Engineering*, 1225 pages), Edited by S. Pierucci and G. Buzzi Ferraris (CMCI Polytechnico di Milano, Milan, Italy), Elsevier, Amsterdam, July 1, 2010; pages 1009-1014 [6 pages].
5. Sarker, B. R., Duan, Q., Wu, B., and Yu, J., "Consignment Policy for Retailers," (Chapter 25) in *Managing Global Services Emerging Trends* (ISBN-978-81-7446-922-9), 1st edition, Edited by B. A. Metri, J. N. D. Gupta and B. S. Sahay, EXCEL Books, Naraina, Phase I, New Delhi 110 028, India, January 2011; pages 324-344 [21 pages].
6. Sarker, B. R., Rahman F. and Wang S., "Emergency Logistics and Supply Chains: Models and Practices in Humanitarian Disasters" in *Humanitarian Logistics and Supply Chains: Case Studies and Research Issues (Integrated Supply Chain Management)*, (ISBN-978-1-4200-4290-0), 288 pages, Edited by Dave M. Goldsman, Auerbach Publications; 1 edition (May 1, 2012). [26 pages].

(C) BOOK REVIEWS IN REFEREED JOURNALS:

1. Sarker, B. R.: *Discrete Location Theory*, edited by P. B. Mirchandani and R. L. Francis, 1st edition 1991, John-Wiley and Sons, Inc., New York, NY; in *European Journal of Operational Research*, Vol. 52, No. 6, June 1991, pp. 388-389.
2. Sarker, B. R.: *Progress in Material Handling and Logistics: Material Handling '90* (Vol. 2), edited by J. A. White and I. W. Pence, Springer-Verlag, Berlin, 1991; in *International Journal of Production Research*, Vol. 30, No. 7, July 1992, pp. 1737-1738.
3. Sarker, B. R.: *Performance Modeling of Automated Manufacturing Systems* by N. Viswanadham and Y. Narahari, 1st edition 1992, Prentice Hall, Inc., New York; in *IIE Transactions on Design and Manufacturing*, Vol. 25, No. 4, July 1993, p. 105.
4. Sarker, B. R.: *Modeling and Analysis of Manufacturing Systems* By Ronald G. Askin and Charles R. Standridge, 1st edition 1993, John-Wiley & Sons Inc., New York, NY; in *International Journal of Production Research*, Vol. 31, No. 10, October 1993, pp. 2509-2510.
5. Sarker, B. R.: *Practitioner's Guide to Quality and Process Improvement* By A. B. Badiru and B. J. Ayeni, 1st edition 1993, Chapman & Hall, Inc., London; in *International Journal of Production Research*, Vol. 32, No. 9, September 1994, p. 2731.
6. Sarker, B. R.: *Engineering Reliability: Fundamentals and Applications* By R. Ramakumar, 1st edition 1993, Prentice-Hall, Inc., Englewood Cliffs, NJ; in *International Journal of Production Research*, Vol. 33, No. 7, July 1995, pp. 2065-2066.
7. Sarker, B. R.: *System Approach to Computer-Integrated Design and Manufacturing* By Nanua Singh, 1st edition 1996, John Wiley & Sons, Inc., New York, NY; in *International Journal of Production Research*, Vol. 34, No. 8, August 1996, pp. 2375-2376.
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15. Sarker, B. R. and Nori, V. S., "A B&B algorithm for minimizing Backtracking in Machine Location Problem," *Final Program of the Fifth Annual Meeting of the Production and Operations Management Society*, Washington, DC, October 8-11, 1994, p. 89.
16. Sarker, B. R., Babu, P. S. and Nori, V. S., "A Heuristic for Locating Machines along Material Handling Track," *TC10.2: Final Program of the TIMS/ORSA Annual Meeting*, Detroit, MI, 24-26, October 1994, p. 84.
17. Waikar, A. M. and Sarker, B. R., "An EOQ model for inventory-dependent demand with allowable shortages," *Final Program of the American Society of Business and Behavioral Sciences*, Las Vegas, NV, January 3, 1995.
18. Waikar, A. and Sarker, B. R., "Operational analysis of highway stripping operation," *SA2.2: Final Program of the Production and Operations Management Society*, Pittsburgh, PA, October 7-10, 1995.

19. Sarker, B. R., Webster, D. B. and Balan, C. V., "Operations planning for a time-proportionate demand in a multi-stage production system," *SB4.4: Final Program of the Production and Operations Management Society*, Pittsburgh, PA, October 7-10, 1995.
20. Sarker, B. R., Waikar, A. M. and Balan, C.V., "Cell formation with operations times," *SC8.1: Final Program of the Production and Operations Management Society*, Pittsburgh, PA, October 7-10, 1995.
21. Nori, V. S. and Sarker, B. R., "A relative assignment algorithm for cell formation," *SD5.4: Final Program of the INFORMS (Institute For Operations Research and Management Science) National Meeting*, New Orleans, LA, October 29-November 1, 1995 (invited session), p. 9.
22. Coates, E. R., Sarker, B. R. and Waikar, A.M., "Setup cost reduction under variable leadtimes and finite opportunities for investment," *MC27.2: Final Program of the INFORMS (Institute For Operations Research and Management Science) National Meeting*, New Orleans, LA, October 29-November 1, 1995, p. 47.
23. Yu, J., Sarker, B. R. and Webster, D. B., "Optimal lot-sizes and schedules for multiple products in a flow shop," *MD3.2: Final Program of the INFORMS (Institute For Operations Research and Management Science) National Meeting*, New Orleans, LA, October 29-November 1, 1995, p. 50.
24. Sarker, B. R., Webster, D. B. and Balan, C. V., "Optimal planning for a multi-stage kanban system," *WB7.2: Final Program of the INFORMS (Institute For Operations Research and Management Science) National Meeting*, New Orleans, LA, October 29 - November 1, 1995, p. 107.
25. Parija, G. R. and Sarker, B. R., "Manufacturing batch sizes for JIT deliveries to multiple customers," *WB33.3: Final Program of the INFORMS (Institute For Operations Research and Management Science) National Meeting*, New Orleans, LA, October 29-November 1, 1995, p. 112.
26. Mann, L., Sarker, B. R., Triantaphyllou, E. and Mahankali, S. E., "Resource allocation for power restoration in an emergency situation," *WCI5.3: Final Program of the INFORMS (Institute For Operations Research and Management Science) National Meeting*, New Orleans, LA, October 29-November 1, 1995, p. 115.
27. Waikar, A. M. and Sarker, B. R., "Make vs. buy decision for multi-item and multi-supplier scenario under discount and resource constraints," *Final Program of the American Society of Business and Behavioral Sciences*, Las Vegas, NV, February 11-14, 1996.
28. Sarker, B. R. and Balan, C. V., "Operations planning for kanbans between two adjacent workstations," *19th International Conference on Computers & Industrial Engineering (See C&IE Conference Final Program, p. 6)*, Miami, FL, March 4-6, 1996 [Published in *Computers & Industrial Engineering*, Vol. 31, No. 1/2, October 1996, pp. 221-224].
29. Sarker, B. R., Coates, E. R. and Ray, T.R., "Manufacturing setup cost reduction," *19th International Conference on Computers & Industrial Engineering (See C&IE Conference Final Program, p. 7)*, Miami, FL, March 4-6, 1996 [Published in *Computers & Industrial Engineering*, Vol. 31, No. 1/2, October 1996, pp. 111-114].

30. Sarker, B. R., Mann, L., Triantaphyllou, E. and Mahankali, S. E., "Power restoration in emergency situations," *19th International Conference on Computers & Industrial Engineering* (See *C&IE Conference Final Program*, p. 12), Miami, FL, March 4-6, 1996 [Published in *Computers & Industrial Engineering*, Vol. 31, No. 1/2, October 1996, pp. 367-370].
31. Parija, G. R. and Sarker, B. R., "Just-in-time production inventory system for multiple products," *SE-18.2: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Atlanta, GA, November 3-6, 1996, p. 17.
32. Jamal, A. M. M. and Sarker, B. R., "Ordering policy for deteriorating items under permissible delay of payment," *WA-18.3: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Atlanta, GA, November 3-6, 1996, p. 77.
33. Nori, V. S. and Sarker, B. R., "Minimizing material flow distance in a multi-product flowline," *WC-23.4: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Atlanta, GA, November 3-6, 1996, p. 91.
34. Sarker, B. R., Mann, L., Triantaphyllou, E. and Wang, S., "Resources scheduling for revenue maximization in power restoration process," *WD-10.4: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Atlanta, GA, November 3-6, 1996, p. 95.
35. Balan, C. V., Nori, V. S. and Sarker, B. R., "Scheduling a multi-stage kanban system" *WD-23.1: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Atlanta, GA, November 3-6, 1996, p. 97.
36. Sarker, B. R., "Multi-Product Flowline Design," Blue Poster Session #320 (Friday): *1997 NSF Design and Manufacturing Grantees Conference*, Seattle, WA, January 7-10, 1997.
37. Sarker, B. R., Wang, S. and Waikar, A. M., "Locating machine cells with bottleneck machines," *SA-08.1: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Dallas, TX, October 26-29, 1997, p. 1.
38. Khan, M., and Sarker, B. R., "Grouping efficiency and efficacy in group technology," *SA-08.2: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Dallas, TX, October 26-29, 1997, p. 1.
39. Islam, K. M. S. and Sarker, B. R., "Measures of similarity/dissimilarity measures in cellular manufacturing," *SA-08.3: INFOMS National Meeting*, Dallas, TX, October 26-29, 1997, p. 1.
40. Jamal, A. M. M., Sarker, B. R. and Wang, S., "Optimal ordering policies for items with inflation and permissible delay in payment," *TD-01.4: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Dallas, TX, October 26-29, 1997, p. 42.
41. Wang, S., Sarker, B. R., and Triantaphyllou, "A resource allocation model for power restoration process," *TE-02.4: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Dallas, TX, October 26-29, 1997, p. 46.

42. Parija, G. R. and Sarker, B. R., "A life-cycle cost model for a production and delivery system," *TE-30.2: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Dallas, TX, October 26-29, 1997, pp. 48-49.
43. Xu, Y., Sarker, B. R., and Li, Z., "Operations sequences-based cell formation for a multi-product flowline," *WB-07.3: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Dallas, TX, October 26-29, 1997, p. 52.
44. Li, Z., Sarker, B. R., and Xu, Y., "Cell formation with alternative routings for multiple products," *WB-07.4: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Dallas, TX, October 26-29, 1997, p. 52.
45. Sarker, B. R., "Designing Flowlines for a Multi-product Manufacturing System," Blue Poster Session #269 (Thursday): *1997 NSF Design and Manufacturing Grantees Conference*, Monterrey, WA, January 5-8, 1998.
46. Waly, S. M. and Sarker, B. R., "Noise Reduction Using nonlinear Optimization Modeling," *23rd International Conference on Computers & Industrial Engineering*, Chicago, IL, March 29-April 1, 1998. [Published in *Computers & Industrial Engineering*, Vol. 35, No. 1-2, October 1999, pp. 327-330].
47. Parija, G. R. and Sarker, B. R., "Modeling a production-delivery system in supply chain system," *MC32(4): INFORMS (Institute For Operations Research and Management Science) National Meeting*, Montreal, Canada, April 26-29, 1998.
48. Sarker, B. R., Parija, G. R., and Mondal, S., "Batch sizing for products with rework process and scrapping," *WB07(1): INFORMS (Institute For Operations Research and Management Science) National Meeting*, Montreal, Canada, April 26-29, 1998.
49. Sarker, B. R., Xu, Y., and Li, Z., "Job routing in a multi-product manufacturing system" Poster Presentation, *5th International Colloquium on Material Handling Research* (sponsored by CIC-MHE, NSF and Motorola), Chandler (Phoenix), AZ, June 20-24, 1998.
50. Parija, G. R., Sarker, B. R., and Mondal, S., "Batch sizing for a multi-stage production system with rework processes," *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Seattle, WA, October 25-28, 1998.
51. Sarker, B. R., and Diponegoro, A., "Job routing and machine location in multi-product flowlines," *MC39.1: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Seattle, WA, October 25-28, 1998.
52. Sodhi, M. S., Sarker, B. R., and Hanjra, P., "Configuring flexible flow lines to minimize line length," Track CM-I: *25th International Conference on Computers & Industrial Engineering*, New Orleans, LA, March 29-31, 1999; Technical Program, p. 9.
53. Parija, G. R., and Sarker, B. R., "Manufacturing batch size for a supply chain model," *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Cincinnati, OH, May 2-5, 1999.
54. Jamal, A.M.M, Sarker, B. R and Wang, S., "Optimal Payment Time for a Retailer with Allowed Shortage and Delay in Payment," Track #SA36.3, *INFORMS (Institute For Operations*

Research and Management Science) National Meeting, San Antonio, TX, November 5-8, 2000.

55. Wang, S., Sarker, B. R., and Jamal, A.M.M, "A supply chain system controlled by kanban mechanism," Track #TA15.3 (Supply Chain Management I), *INFORMS (Institute For Operations Research and Management Science) National Meeting*, San Antonio, TX, November 5-8, 2000.
56. Wang, S., Sarker, B. R., and Jamal, A.M.M, "Supply chain models for perishable products under inflation and permissible delay in payment," Department of Industrial Engineering New Mexico State University, Santa Fe, NM, December 4, 2000.
57. Sarker, B. R., "Operations Analysis of Space Shuttle Systems," NASA-ASEE-Summer Intern Deliberation at *NASA Marshall Space Flight Center*, Huntsville, AL; July 28, 2001, POC: Gerald Karr (UAH, Huntsville, AL).
58. Sarker, B.R., "A Roadmap for Research and Exploration for Second Generation RLV Systems-I," Closed-Circuit Broadcast at *NASA Marshall Space Flight Center*, Huntsville, AL, and *NASA Kennedy Space Center*, Cape Canaveral, FL; August 16, 2001 (Host: Eric J. Shaw).
59. Sarker, B.R., "A Roadmap for Research and Exploration for Second Generation RLV Systems-II," Closed-Circuit Broadcast at *NASA Marshall Space Flight Center*, Huntsville, AL, and *NASA Kennedy Space Center*, Cape Canaveral, FL; August 17, 2001 (Host: Eric J. Shaw).
60. Jamal, A.M., Sarker, B. R., and Mondal, S., "Optimal manufacturing batch size with rework process in a single-stage production system," Track #WB45.3 (Production and Scheduling VII), *INFORMS (Institute for Operations Research and Management Science) National Meeting*, Miami, FL, November 4-7, 2001.
61. Sarker, B.R., and Shaw, E. J., "Performance evaluation procedure for 2GRLV ground operations (A Roadmap for Research and Exploration for Second Generation RLV Systems)," Session 6 (Economics of Space Transportation Systems), RLV Symposium, *NASA Marshall Space Flight Center*, Huntsville, AL; April 11-12, 2002 (Session Chair: Allen E. Goldstein).
62. Sarker, B. R., "Assembly Line Systems: Design Configuration, Model Sequencing and Lean Manufacturing," Assembly Technology Exposition organized by Association of North American Industry, Chicago, IL; September 24-26, 2002.
63. Sarker, B. R. and Sodhi, M.S., "Configuring Flexible Manufacturing," *INFORMS (Institute For Operations Research and Management Science) National Meeting*, San Jose, CA, November 17-20, 2002.
64. Sarker, B. R. and Yu, J., "A Directional Decomposition Heuristic for Machine-Cell Location Problem," Track TA12(2) - Cellular Manufacturing: *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Atlanta, GA, October 19-22, 2003.
65. Biswas, P. and Sarker, B. R., "Optimal Batch Quantity Models for Products with Rework and scrap," Track TD33(5) - Sequencing and Scheduling II: *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Atlanta, GA, October 19-22, 2003.

66. Sarker, B. R., and Diponegoro, A., "Finite horizon planning for a production system with lumpy demand" Track-95: *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Denver, CO, October 24-27, 2004.
67. Mungan, D., Sarker, B. R. and Yu, J., "An integrated inventory model for a supply chain system under continuous price decrease," *INFORMS (Institute for Operations Research and Management Science) Southwest Regional Conference*, College Station, TX, April 18-19, 2008.
68. Sharma, P., Sarker, B. R. and Romagnoli, J.A., "Integrated Framework for Enterprise Management—A Synergistic Approach towards Sustainable Biorefineries," *20th European Symposium on Computer Aided Process Engineering—ESCAPE20*, Ischia, Naples, Italy, June 6-9, 2010.
69. Yu, J., Sarker, B. R., and Tahmasebi, H. "A supply chain policy with multi-factored variable leadtime," *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Austin, TX, November 7-10, 2010.
70. Rochanaluk, R., Egbelu, P.J. and Sarker, B.R., "A replenishment policy for three-stage integrated system: Automobile system," *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Austin, TX, November 7-10, 2010.
71. Yi, H., Egbelu, P.J., and Sarker, B.R. "The role controllable lead time in consignment stock," *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Austin, TX, November 7-10, 2010.
72. Sarker, B. R., Duan, Q., Wu, B., and Yu, J., "Consignment policy for retailers with generalized demand distributions," *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Austin, TX, November 7-10, 2010.
73. Sarker, B. R., Yu, J., Duan, Q., and Wu, B. "Consignment Policy for Retailers," paper presented at the *International Conference on Decision Sciences in Managing Global Services (ISDSI-2010)*, held at the Management Development Institute, Gurgaon, Delhi-122007, India on December 28-31, 2010.
74. Biswas, P. and Sarker, B. R., "An integrated supply chain system with JIT delivery and transportation," *19th Institute of Industrial Engineers Annual Conference and EXPO*, Grand Sierra Resort Hotel, Reno, NV, May 21-25, 2011.
75. Sarker, B. R., Paudel, K. P., and Wu, B., "Renewable energy generation: plant Locations and biomass supply chain Problems," *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Charlotte, NC, November 13-16, 2011.

(I) EDUCATIONAL SYMPOSIUMS OR WORKSHOPS ATTENDED:

1. *United Nations Development Program (UNDP) International Symposium*, organized at Southern Methodist University, Dallas, TX, December 22-26, 1978.
2. *Gulf-South Oil Spillage Symposium*, Louisiana State University Plantation House, Essen Lane, Baton Rouge, LA 70808, June 14, 1994.

3. *Louisiana State Oil Spillage Program Workshop*, Louisiana State University Plantation House, Essen Lane, Baton Rouge, LA 70808, December 11, 1995.
4. *Manufacturing Research Section Meeting at the Industrial Engineering Research Conference* sponsored by the Institute of Industrial Engineers (IIE), Phoenix, AZ, May 23-24, 1999.
5. *Material Handling Research Colloquium* at Holiday Inn, Chandler (Phoenix), AZ, sponsored by the Material Handling Institute, June 20-24, 1998.
6. *National Science Foundation (NSF)/Georgia Tech Logistics Institute: "Delivering E-Commerce: Logistics and the On-line Revolution,"* NSF Grant for E-Commerce Forum, Georgia Institute of Technology, Atlanta, GA; February 10-11, 2000.
7. *National Science Foundation (NSF) Regional Grant Conference*, Louisiana State University, Baton Rouge, LA, March 19, 2000 (Host: Dr. Lynn Jelinski).
8. *University of Rhode Island, Kingston, RI: Visiting Research Professor* at the Department of Industrial and Manufacturing Systems Engineering, May 20 – June 3, 2000 (Host: Dr. Manbir Sodhi).
9. *National Science Foundation (NSF) Workshop on e-Product Design and Realization*, University of Pittsburgh, Pittsburgh, PA, October 18-20, 2000 (Host: Dr. Bart O. Nnaji).
10. *Systems Engineering: Planning, Design, and NASA Practices*, George C. Marshall Space Flight Center, Huntsville, AL 35812, May 15, 2001 (Primary host: Gerry Flannigan, Systems Engineering Department and UAH).
11. *Industrial Safety and Practices at NASA*, George C. Marshall Space Flight Center, Huntsville, AL 35812, May 16, 2001 (Primary host: NASA Safety Department).
12. *Systems Engineering: Planning, Design, and NASA Practices*, George C. Marshall Space Flight Center, Huntsville, AL 35812, May 15, 2001 (Primary host: Gerry Flannigan, NASA-MSFC, Systems Management Office, VS10).
13. *IT Security and Assurance Reinforcement and EXPO*, John C. Sparksman Complex Auditorium, Redstone Arsenal, AL; June 6-7, 2001 (Primary host: US Avionics Mission Command).
14. *2001 NASA Second Generation Reusable Launch Vehicle (2GRLV) Workshop*, Marshall Space Flight Center, Marriott Hotel at Space Park, Huntsville, AL; July 16-20, 2001.
15. 2009 Supply Chain Management Symposium: Best Practices for a Global Economy, E.J. Ourso College of Business, Executive Education, Louisiana State University, Baton Rouge, LA 70803, October 29, 2009 [Host: Dean Eli Jones and Prof. Edward Watson].
16. *Sun Yat-Sen University, Guangzhou, Guangdong 510275, China*, "Supply chain Management and Industrial Logistics," Conducted workshop at the Department of Management Sciences, School of Business: December 11- 26, 2009 [POC: Professor Zhixiang Chen].

(I) PROFESSIONAL TRAINING SYMPOSIUMS OR WORKSHOPS ATTENDED:

1. *Competing in the World of Sponsored Programs and Research*, Southern University, Baton Rouge, LA 70813, April 28-29, 1997.
2. *Faculty Forum: Research, Scholarship and Graduate Studies*, Alumni Center, Organized by Vice-Chancellor for Research, Louisiana State University, Baton Rouge, LA 70803, October 5, 1998.
3. *Material Handling Teachers' Institute* at Lehigh University at Bethlehem, PA, sponsored by College Industry Council on Material Handling Education and the Material Handling Institute, Charlotte, NC, June 19-25, 1999.
4. *Faculty on the Front Lines: Reclaiming Civility in the Classroom* at LSU, sponsored by Division of Instruction Support and Development, 49 Himes Hall, LSU, February 8, 2000.
5. *Louisiana State University: "Teaching-Learning Connections: Preparing for the 21st Century,"* Himes Hall (in collaboration with Center for Faculty Development at LSU), March 1, 2000.
6. *Center for Faculty Development at Louisiana State University: "Forging Educational Partnerships: A key to Students Learning and Success,"* Center for Measurement and Evaluation, Himes Hall (Live Interactive Teleconferences, produced by the University of South Carolina), April 27, 2000.
7. *Faculty Forum: Creating a Culture of Collaboration*, Lod Cook Alumni Center, Organized by George Strain, Vice-Chancellor for Research, Louisiana State University, Baton Rouge, LA 70803, October 30, 2000 (Host: George Strain).
8. *Human Reliability Assessment Training Course* (FRANCIE: Framework Assessing, Notorious Contributing Influences for Error), NASA Johnson Space Center (B45/R729), hosted by Dr. Garland T. Bauch, June 4-6, 2002: RTOP/ PFMEA (Garland Bauch and David Gertman, INEEL), J-85 Project (Dennis Pete), Neutral Buoyancy Lab (NBL), and Lean 6 Project (Mark A. McDonald, Biomedical Systems Division).
9. *2011 Faculty Development Workshop* (ENG²: Engineering Engagement for Students success— Project Year V, LSU-STEP Program), "Effective Teaching: A Workshop," Frank Walk Engineering & Design Center, Louisiana State University, Baton Rouge, LA, May 23-25, 2011 (Host: Dr. Warren Waggenpack and Dr. Roger Seals; Trainers: Dr. Richard Felder (NC State University and Dr. Rebecca Brent, Education Design, Inc. Cary, NC.).

(J) INVITED LECTURES AND SEMINARS GIVEN, OR WORKSHOPS CONDUCTED:

1. *University of Minnesota, Duluth, MN: "Backtracking Problems in shop floor scheduling,"* February 1989 [Host: Dr. Lester W. Garber, Department of Industrial Engineering].

2. *University of Missouri*, Rolla, MO: "Material handling in linear track," March 1989 [Host: Dr. Yildirim Omurtag, Department of Industrial Management].
3. *University of Houston*, Houston, TX: "Backtracking along a material handling track," October 1989 [Host: Dr. James P. Ignizio, Department of Industrial Engineering].
4. *University of Cincinnati*, Cincinnati, OH: "Measuring and minimizing one-dimensional material flows," December 1990 [Host: Dr. Amit Mital, Department of Mechanical and Industrial Engineering].
5. *Auburn University*, Auburn, AL: "Machine location problems in one-dimensional layout," January 24, 1990 [Host: Dr. Amitava Mitra, College of Business Administration].
6. *Tulane University*, New Orleans, LA: "Use of special structures of distance matrix to solve machine location problems," January 26, 1990 [Host: Dr. N. Balakrishnan, A. B. Freeman School of Business].
7. *Louisiana State University*, Baton Rouge, LA: "The amoebic matrix and machine location problems," January 28, 1990 [Host: Dr. L. Ken Keys, Department of Industrial and Manufacturing Systems Engineering].
8. *Case Western Reserved University*, Cleveland, OH: "Resolving computational problems in machine location problems," February 21 1990 [Host: Dr. Henry C. Co, Department of Operations Research].
9. *University of Arkansas*, Fayetteville, AR: "Multi-product flowline design," March 10, 1990 [Host: Dr. Eric M. Malstrom, Department of Industrial Engineering].
10. *Kansas State University*, Manhattan, KS: "Bi-directional flow minimization in manufacturing shop floor," March 25, 1990 [Host: Dr. R. Michael Harnett, Department of Industrial and Manufacturing Systems Engineering].
11. *American Association of Bangladesh Engineers*, Washington, DC: "The Amoebic Matrix and One-dimensional Machine Location Problems," Bethesda, MD, October 14, 1990 [Host: Dr. Golam Farid Aktar].
12. *Decision Science Institute (DSI) National Meeting*, Miami, FL: Panel Speaker for the Graduate Students Workshop, November 24-27, 1991 [Panel Chair: John F. Kottas].
13. *U.S. Army Corps of Engineers - Waterways Experiment Station*, Vicksburg, MS: "Applications of Operations Research in Military Logistics Planning," August 18, 1993 [Host: Dr. David A. Horner, Mobility Systems Modeling Division].
14. *Louisiana State University (ISDS Department, College of Business Administration)*, Baton Rouge, LA, "Job routing and its complexity in shop floor scheduling" Spring 1995 [Host: Dr. Sumit Sarkar, Department of Information Systems and Decision Sciences].
15. *Bangladesh University of Engineering and Technology, Dhaka*: "Graduate Education in the U.S.A." August 12, 1995 [Host: Dr. A.F.M. Anwar-ul Haque, Department of Industrial and Production Engineering].

16. *Assembly Technology EXPO 2002, Rosemont (Chicago), IL*, “Assembly Line Systems: Design Configuration and Model Sequencing.” September 25, 2002 [Host: Ms. Deborah Luongo], Conference Brochure, page 5.
17. *American Institute for Bangladesh Studies, USA*, and *Bangladesh University of Engineering and Technology, Dhaka*: Conducted a workshop on “Development of Research Capability in Supply Chain Management,” under the auspices of AIBS at BUET, January 6-13, 2004 [Host: Dr. A.F.M. Anwarul Haque and Dr. Nikhil R. Dhar, Department of Industrial and Production Engineering].
18. *USAC Engineer Research and Development Center Vicksburg, MS*, “Transportation Network: Computation of Capacity from Sparse Data,” presented at the Engineering Systems and Materials Division, WES, Vicksburg, MS: September 2, 2004 [Host: E. Alex Baylot, Mobility Systems Branch].
19. *USAC Engineer Research and Development Center, Vicksburg, MS*, “Influence of Urban Factors on Road Network Throughput Capacity,” presented at the Engineering Systems and Materials Division, WES, Vicksburg, MS: August 2, 2005 [Host: E. Alex Baylot, Mobility Systems Branch].
20. *Bangladesh University of Engineering and Technology (BUET), Dhaka*: Offered an accelerated graduate course on Supply Chain Management on January 2-12, 2006 [Host: Dr. Nikhil R. Dhar, Department of Industrial and Production Engineering, BUET].
21. *USAC Engineer Research and Development Center, Vicksburg, MS*, “Impact of Urban Factors on Transportation Network Capacity,” presented at the Engineering Systems and Materials Division, WES, Vicksburg, MS: June 9, 2006 [Host: E. Alex Baylot, Mobility Systems Branch].
22. *Air Force Institute of Technology (AFIT), Wright-Patterson AFB, OH*, “Optimal Production Plans and Shipment Schedules in a Multi-Supplier, Multi-Buyer Supply-Chain System,” presented at the Department of Operational Sciences: March 7, 2008 [Hosts: Kenneth Bauer, and Jeff Cochran, Department Head].
23. *Sun Yat-Sen University, Guangzhou, Guangdong 510275, China*, “Research Methodology I: How to do research—A brainstorm to get rid of fear,” A seminar presented at the Department of Management Sciences, School of Business: Tuesday, December 15, 2009 [POC: Professor Zhixiang Chen].
24. *Sun Yat-Sen University, Guangzhou, Guangdong 510275, China*, “Research Methodology II: General procedure to select a topic for research and identifying the problem(s)—Summary and relationship diagram,” A seminar presented at the Department of Management Sciences, School of Business: Wednesday, December 16, 2009 [POC: Professor Zhixiang Chen].
25. *Sun Yat-Sen University, Guangzhou, Guangdong 510275, China*, “Lean Production Concept: Its perspectives and objectives,” A seminar presented at the Department of Management Sciences, School of Business: Thursday, December 17, 2009 [POC: Professor Zhixiang Chen].

26. *Sun Yat-Sen University, Guangzhou, Guangdong 510275, China*, “JIT Systems: JIT production and delivery, its modeling, original concepts and evolution of the models, subsequent research offshoots and spin-offs.” A seminar presented at the Department of Management Sciences, School of Business: Tuesday, December 22, 2009 [POC: Professor Zhixiang Chen].
27. *Sun Yat-Sen University, Guangzhou, Guangdong 510275, China*, “Modeling Phase: Modeling multi-server and multi-buyer JIT delivery system with minimum idle time,” A seminar presented at the Department of Management Sciences, School of Business: Wednesday, December 23, 2009 [POC: Professor Zhixiang Chen].
28. *Beihang University (BUAA), Beijing, China*, “Global Supply Chain: Research Problems and Issues,” A seminar presented at the School of Automation & Processing Engineering, Friday, July 15, 2011 [POC: Professor Lin Zhang, Vice-Dean and Feo Tao].

(K) TECHNICAL REPORTS COMPLETED:

1. Sarker, B. R., *A Report on Industrial Training*, Godrej & Boyce Manufacturing Company (Filing Cabinet Manufacturing Plant), Bombay (India), August 27, 1975 [100 pages].
2. Sarker, B. R. and Horner, D.A., *Conceptualization of Army Mobility Problems: Engineer Resources Planning for Roads and Bridges*, Report #DAAL03-91-C-0034/ TCN: 93-381, US Army Corps of Engineers - Waterways Experiment Station (Mobility Systems Modeling Division), Vicksburg, MS, September 1993 [116 pages].
3. Hsieh, B. B., McAdory, R. T., and Sarker, B. R., *Time Series Analysis and System Simulation for An Estuarial System*, Report #DAAL03-91-C-0034/ TCN: 96-121. U.S. Army Corps of Engineers - Waterways Experiment Station (Estuaries Division), Vicksburg, MS, September 1996 [54 pages].
4. Mann, L., Sarker, B. R. and Triantaphyllou, E., *An Optimal Management of Repair Crews and Vehicles In Electric Power Utilities Companies*, Grant #LEQSF 1994-7:D-A-04, Louisiana State Board of Regents, Baton Rouge, LA, June 30, 1997 [37 pages].
5. Sarker, B. R. and Diponegoro, A., *Virtual Placement Methodology for PCB Assembly: A Report*, submitted to the Gulf Coast Region Maritime Technology Center (GCMRTC-UNO), Grant #ONR: N00014-94-2-0011, UNO: 327-01-5129, LSU: 127-30-4104, December 31, 1998 [59 pages].
6. Sarker, B. R., *Operations Analysis of Space Shuttle Systems: A Report*, submitted to the NASA-MSFC), Contract #MSFC: NAG8-1786, July 28, 2001 [7 pages]. POC: Dr. Gerald Karr (UAH, Huntsville, AL).
7. Sarker, B. R., *A Roadmap for Research and Exploration for Second Generation RLV Systems: A Report*, submitted to the NASA-MSFC), Contract #MSFC: NAG8-1845, LSU#: 127-30-5105 (Proposal #14533), September 19, 2001 [41 pages]. POC: Eric J. Shaw (NASA).

8. Sarker, B. R., *Performance Evaluation Procedure for 2GRLV Ground Operations: A Preliminary Report*, submitted to the NASA-MSFC, Contract #MSFC: NAG8-xxxx, LSU #127-30-5106 (Proposal #14807), April 4, 2002 [10 pages, Report submitted in advance]. POC: Eric J. Shaw (NASA).
9. Sarker, B. R., and Bauch, G.T., *An Application of Connection Matrix Technique to J-85 Engine: An Extended Study on process FMEA*, Report on Contract #NAG9-1422, August 13, 2002 [15 pages]. POC: Dr. Richard Bannerot, University of Houston (NASA-ASEE, Coordinator, Summer 2002).
10. Sarker, B. R., and Bauch, G.T., *Process Failure Modes and Effects Analysis using Connection Matrix Technique as applied to the J-85 Engine*, Report #JSC: 29867 (NAG9-1422), September 2002 [37 pages]. POC: Dr. Garland T. Bauch (NASA-JSC, Houston TX).
11. Sarker, B. R., and Baylot, E. Alex, *Transportation Network: Computation of Capacity from Sparse Data—Final Report*, Contract #DAAD19—02-D-0001, TCN: 04-043, Delivery Order: 0394, September 2, 2004 [100 pages]. POC: E. Alex Baylot (ERDC-WES, Vicksburg, MS).
12. Sarker, B. R., Baylot, E. A., Biswas, P. and Rahman, M.A. Phase I: *Urban Factors on Transportation Network Capacity*, Contract #DAAD19—02-D-0001, TCN: 04-022, Delivery Order: 0541, September 15, 2005 [137 pages]. POC: E. Alex Baylot (ERDC-WES, Vicksburg, MS).
13. Sarker, B. R., Baylot, E. Alex, and Biswas, P. Phase II: *Urban Factors on Transportation Network Capacity: Convoy Movement Simulation Under the Influence of Different urban factors*, Contract #DAAD19—02-D-0001, TCN: 05-022, Delivery Order: 0541, October 13, 2006 [532 pages]. POC: E. Alex Baylot (ERDC-WES, Vicksburg, MS).

(L) MAJOR INDUSTRIAL VISITS FOR ENHANCEMENT OF TEACHING AND TRAINING CAPABILITY:

1. *GM Manufacturing Plant*, Saginaw, MI: Summer, 1985 [Steering column production: fabrication, assembly systems, and product testing].
2. *Boeing Company*, Everett, WA: January 4, 1997 [Boeing 777: Fixed-point assembly, material handling, simulation, aerodynamic balancing, and installation].
3. *Lucent Technologies*, Shreveport, LA: 1991-1998 (several times) [Telephone production: surface mounting operations, modular cells, flowlines, and plastics operations].
4. *Georgia-Pacific Corporation—Port Hudson Operations*, Zachary, LA: 1991-1998 (several times), [Paper-production: pulps, paper production, sizing, material handing, customized production, and warehousing and distribution].
5. *Allied-Signal Aerospace Corporation*, Long Beach, CA: January 4, 1999 [Wing-sensor production: modular cells, job routing, assembly system, and testing].
6. *Walgreen's Distribution Center* at Industrial Park, Bethlehem, PA: June 22, 1999 [Warehousing and Distribution: Automated storing, retrieval, sorting, packaging, and distribution of millions of consumer items].

7. *Mack Trucks*, Macungie, PA: June 23, 1999 [Truck Manufacturing: fabrication, sheet metal, material handling, assembly, automation, testing and delivery].
8. *SI Handling Systems*, Easton, PA: June 24, 1999 [Material Handling Equipment: fabrication, automated storage/retrieval, assembly, automation, and testing].
9. *University of British Columbia*, Vancouver, BC, Canada: January 5, 2000 [Foundry and Fabrication Laboratory, and Computational Laboratory].
10. *Canadian Research Council Testing Laboratory* at Industrial Park, British Columbia, BC, Canada: June 8, 2000 [National Testing Facility].
11. *NASA Marshal Space Flight Center, Huntsville, AL*: Chandra Lab, and V-series Rocket Testing, Space Museum.
12. *Kennedy Space Center (Orbiter Processing Facilities)*, Cape Canaveral, FL, June 17-22, 2001 (Primary host: Grant Cates, Manager of Process Integration).
13. *NASA Johnson Space Center: Human Error Analysis Methodology, J-85 Engine Project, Crew Health Care System (Bio-medical Systems): Pre-ship Task Analysis, Neutral Buoyancy Lab (NBL) Process and Comparative study for J-85 Engine Refurbishment processes, Robonautics Laboratory, Nanotubes Laboratory, and Advanced Space Propulsion Laboratory (ASPL)*.

5. RESEARCH GRANTS AND CONTRACTS:

(A) FUNDED PROJECTS/CONTRACTS:

1. *Louisiana State University (Council of Research):*

Sarker, B. R., “Development of Similarity Coefficient in Cellular Manufacturing Systems,” DURATION: November 29, 1990 (Summer 1991), AMOUNT: \$4,000.

2. *Pritsker Corporation, West Lafayette, IN:*

Sarker, B. R. and Waikar, A. M., “*SLAM* System for Education and Research (for laboratory development),” SPONSOR: Awarded: December 1990, AMOUNT: \$18,000.

3. *Louisiana State University, Baton Rouge, LA*

Sarker, B. R., “Designing a Multi-stage, Just-in-time Production-Delivery System,” (*Halliburton Research Grant #127-99-6003*); DURATION: Summer 1991, AMOUNT: \$2,000.

4. *US Army Corps of Engineers - Waterways Experiment Station, Vicksburg, MS:*

(Geotechnical Laboratory—Mobility Systems Modeling Branch),

Sarker, B. R., “Conceptualization of Army Mobility Problems: Engineer Resources Planning for Roads and Bridges,” (Summer Faculty Research and Engineering Program, Contract #DAAL03-91-C-0034/ TCN: 93-381), DURATION: Summer 1993, AMOUNT: \$15,500.

5. Louisiana Education Quality Support Funds (LEQSF):

Mann, L., **Sarker, B. R.** and Triantaphyllou, E., “An optimal management of repair crews and vehicles in electric power utilities companies,” (*LEQSF 1994-7: D-A-04*), *LSU: 127-30-4117*; DURATION: 3 years (June 1994 - May 1997); AMOUNT: (LEQSF: \$121,000, LSU: \$103,282), Total: \$224,282.

6. IBM Corporation, Kingston, NY:

Sarker, B. R., “Optimization Subroutine Library (OSL) for Enhancement of Computational Facilities at LSU,” February 1995: Donation for joint research, AMOUNT: Estimated value is \$9,600.

7. U.S. Army Corps of Engineers - Waterways Experiment Station, Vicksburg, MS:

(*Hydraulics Laboratory—Estuaries Division*):

Sarker, B. R., “Time Series Analysis and System Simulation for An Estuarial System,” (Summer Faculty Contract #*DAAL03-91-C-0034/ TCN: 96-121*), DURATION: Summer 1996, AMOUNT: \$15,500.

8. Office of Naval Research (ONR)/University of New Orleans (UNO):

Sarker, B. R., “Virtual Placement Methodology for PCB Assembly,” Sub-Contract from the *Gulf Coast Region Maritime Technology Center (GCMRTC-UNO)*, Grant #*ONR: N00014-94-2-0011*, *UNO: 327-01-5129*, *LSU:127-30-4104*, DURATION: 6 months (July 1, 1998 - December 31, 1998); AMOUNT: \$10,000.

9. National Science Foundation (NSF):

Sarker, B. R., “Multi-product Flowline Design for a Flexible Manufacturing System,” Grant #*DMII: 96-22306*, *LSU: 127-30-5102*; DURATION: 3 years (September 1, 1996 - August 31, 2000); AMOUNT: (NSF: \$195,527, LSU: \$99,291), Total: \$294,818.

10. University of Rhode Island Research Foundation, Kingston RI:

Sarker, B. R., “Configuring Flexible Flowlines,” Collaborative Research funded by the Department of Industrial and Manufacturing Systems Engineering (May 20 – June 3, 2000); AMOUNT: \$7,100.

11. NASA-American Society of Engineering Education (NASA-ASEE):

Sarker, B. R., “Operations Analysis of Space Shuttle System,” (Summer Faculty Fellowship Program), NASA-MSFC Contract #*NAG8-1786 (Badge #275372)*, DURATION: 2 months (May 14, 2001 – July 20, 2001), Total: \$13,225. (POC: Joseph W. Hamaker and Eric J. Shaw).

12. NASA - George C. Marshall Space Flight Center:

Sarker, B. R., “Second Generation Space Launch Initiatives: An Exploration and Roadmap to Solving Problems,” LSU #*127-30-5105 (Proposal #14533)*, NASA Grant# *NAG8-1845 [MSFC Control#: 2001-54-53, Badge #448469]*, DURATION: 1 month (July 29, 2001 – August 29, 2001), Total: \$10,000. (POC: Eric J. Shaw).

13. NASA-American Society of Engineering Education (NASA-ASEE):

Sarker, B. R., “Identification and Evaluation of Human Reliability Factors in Engineering Processes” (Summer Faculty Fellowship Program), NASA-JSC Contract #*NAG9-1422*, DURATION: 2.5 months (June 3, 2002 – August 16,

2002), Total: \$13,950. [POC: Dr. Garland T. Bauch (NASA) and Dr. Richard Bannerot (UH)].

14. BOR Economic Development Assistance (EDA) at LSU:

Sarker, B. R. and Diponegoro, A., “Operations Planning in a Supply Chain Systems;”
SUBMITTED: February 28, 2003; DURATION: 1 year (August 2002 – July 2003);
AMOUNT: Total: \$25,000.

15. US Army Research Office (Battelle Scientific Service Programs):

Sarker, B. R., “Computation of Transportation Network Capacity from Sparse Data Sources,” (Battelle Summer Faculty Research and Engineering Program, Contract #DAAD19-02-D-0001: TCN: 04-043, Delivery Order: 0394), May 24, 2004 – August 31, 2004 (3 months), POC: E Alex Baylot (USAC-ERDC), AMOUNT: ARO: \$20,207 and ERDC: \$2,310, Total: \$22,517.

16. US Army Research Office (Battelle Scientific Service Programs):

Sarker, B. R., “Phase-I: Urban Factors on Transportation Network Capacity,” LSU #127-30-6102 (Proposal #19170), Battelle Prime Contract #DAAD19-02-D-0001: TCN: 04-022, Delivery Order: 0541), January 12, 2005 – December 31, 2005 (12 months), POC: E Alex Baylot, USAC-ERDC), AMOUNT: \$57,490.

17. US Army Research Office (Battelle Scientific Service Programs):

Sarker, B. R., “Phase II: Urban Factors on Transportation Network Capacity,” LSU #127-30-6102 (Proposal #19170-2), Battelle Prime Contract #DAAD19-02-D-0001: TCN: 05-022, Delivery Order: 0541) January 1, 2006 – January 11, 2007 (12 months), POC: E Alex Baylot, USAC-ERDC), AMOUNT: \$25,000.

18. US Army Corps of Engineers Research and Development Center, Vicksburg, MS:

Sarker, B. R., “Validation of Simulation Model to Predict the Throughput Rate for Convoy Movement Through Urban Areas,” BAA (GSL-3) Proposal BAA #06-4000 (Contract #W912HZ-06-P-0243, Requirement/Purchase Request #W81EWF-6132-1213, Code: W912HZ-4CM59), June 07, 2006 – August 15, 2006 (3 months), POC: E Alex Baylot (USAC-ERDC), AMOUNT: \$20,800.

19. LSU Council of Research:

Sarker, B. R., “Efficient Mass-Exit Plans during Emergency Evacuation,” (2006-07 LSU FRG #127-30-9102), July 1, 2006 – June 30, 2007 (12 months), POC: Todd A. Pourciau (Program Director, LSU), AMOUNT: \$10,000.

20. Louisiana Economic Development Assistantship (EDA):

Sarker, B. R., “Bio-energy Development: Plant Location for Converting Plant Residues and Livestock Wastes to Liquid Hydrocarbons, July 1, 2011– June 30, 2015 (48 months), AMOUNT: \$100,000.

(B) TRAVEL GRANTS FOR SYMPOSIUM/CONFERENCES:

1. Material Handling Institute (MHI):

Sarker, B. R., *Travel Grant* to present a paper entitled “Job routing in a multi-product manufacturing system” at the 5th *International Colloquium on Material Handling Research*,” sponsored by MHI (CIC-MHE), NSF and Motorola, held at Chandler (Phoenix), AZ on June 20-23, 1998; AMOUNT: (CIC-MHE: estimated \$950).

2. Georgia Tech Logistics Institute/National Science Foundation (NSF):

Sarker, B. R., “Travel grant to attend Executive Forum on Delivering E-Commerce: Logistics and the On-line Revolution,” NSF Grant for E-Commerce Forum at Georgia Tech., Atlanta, GA (February 10-11, 2000); AMOUNT: \$500.

3. National Science Foundation (NSF)/University of Pittsburgh:

Sarker, B. R., Travel Grant for “e-Product Design and Realization: Workshop,” University of Pittsburgh, (October 19-20, 2000), ESTIMATED AMOUNT: \$500.

4. NASA - George C. Marshall Space Flight Center:

Sarker, B. R., 2001 NASA Second Generation Reusable Launch Vehicle (2GRLV) Workshop, Marshall Space Flight Center, Marriott Hotel at Space Park, Huntsville, AL; July 16-20, 2001. ESTIMATED AMOUNT: \$400.

5. Association of Assembly Industry (USA):

Sarker, B. R., Travel Grant for “Mixed-Model Assembly: Operations and Design Perspectives,” Assembly Technology Exposition, Chicago, (September 24-26, 2002), AMOUNT: \$828.

6. American Institute of Bangladesh Studies (AIBS):

Sarker, B. R., Workshop grant on “Development of Research Capability in Supply Chain Management,” at the Department of Industrial and Production Engineering, BUET on January 6-13, 2004 [Host: Dr. A.F.M. Anwarul Haque and Dr. Nikhil R. Dhar], AMOUNT: \$6,589.57.

7. U.S. Army Corps of Engineers - Waterways Experiment Station, Vicksburg, MS:

Sarker, B. R., Travel grant for presenting the paper “Estimation of throughput capacity for convoy movement,” by Sarker, B.R. and Baylot, E.A., *Proceedings of 13th International Conference on Hong Kong Society for Transportation Studies (HKSTS)*, InterContinental Grand Stanford Hotel, Hong Kong, December 13-15, 2008. POC: E Alex Baylot (USAC-ERDC), AMOUNT: \$2,500.

8. NSF-EPSCoR (IGERT Preproposal):

Liao, T.W., Egbelu, P.J., Sarker, B. R., and Chen, Y.S., “Developing an NSF IGERT Proposal on “Research and Education in Global Supply Chain Management,” Travel grant for writing proposal in 2012, *LSU Proposal # 37593-1, LSU A/C# 127-30-4115*; DURATION: 12 months (July 1, 2011 – June 30, 2012), BUDGET: NSF: \$10,000.

6. PROFESSIONAL SERVICES

(A) SERVICES AT NATIONAL/INTERNATIONAL PROFESSIONAL ORGANIZATIONS:

- *President*, IIE Senior Chapter, Baton Rouge, LA, 1992-1994;
- *Judge*, 1991 DSI Best Doctoral Dissertation Competition (Chairman: John F. Kottas)
- *Session Organizer*, INFORMS Meeting at New Orleans, LA, Fall 1995.
- *Member*, Organization Committee, 25th International Conference on Computers & Industrial Engineering, Hotel Monteleone, New Orleans, LA, March 29-31, 1999.

- *Member*, American Biography, Inc. (ABI) Research Board of Advisors, 1999-
- *Member*, Organization Committee, International Conference on Manufacturing (ICM2000), February 24-26, 2000, BUET, Dhaka, Bangladesh.
- *Member*, Technical Program Committee, Gulf Coast Conference on Lean Manufacturing at the University of Southern Mississippi, Hattiesburg, MS, February 2002.
- *Member*, Organizing Committee, Second International Industrial Engineering Conference, Department of Industrial Engineering, King Saud University on December 19-21 2004 (Host: Professor Moncer Hariga).
- *Speaker and Program Coordinator*, AIBS-BUET Workshop on Supply Chain Systems, Bangladesh University of Engineering and Technology, Dhaka, January 6-13, 2004.
- *Member*, Organizing Committee, INFORMS Southwest Regional Conference (Connect Locally Through Theory and Practice), Venue: Texas A&M University, College Station, TX 77843; April 18-19, 2008.
- *Member*, Advisory Committee of International Conference on Industrial Engineering and Operations Management (IEOM 2010), Dhaka, Bangladesh, January 9-10, 2010 (organization activities from Fall, 2009).
- *Member*, Advisory Committee of International Conference on Global Supply Chain Management (ICGSCM 2011), Kharagpur, India, December 2-4, 2011 (organization activities from April 9, 2010).
- *Member*, Advisory Committee of International Conference on Smart Manufacturing and Industrial Systems (ICSMIS 2011), Hyatt Regency, Port of Spain, Trinidad and Tobago, West Indies, March 10-11, 2011 (organization activities from April 9, 2010).
- *Member*, Advisory Committee of International Conference on Industrial Engineering and Operations Management (IEOM 2010), Istanbul Technical University, Management Faculty, Macka, Istanbul, Turkey, July 3-6, 2012 (organization activities from Fall, 2011).
- *Member*, International Program Committee of “1st International Conference on Operations Research and Enterprise Systems” – (ICORES 2012), Hotel Tivoli Victoria, Vilamoura - Algarve, Portugal, February 4-6, 2012 (Invited June 22, 2011, Program Chair: Carlos Luz, Polytechnic Institute of Setúbal, Portugal).

(B) LEADERSHIP/ORGANIZATIONAL ACCOMPLISHMENTS:

- (1) *Third Place*, National Outstanding Chapter, Alpha Pi Mu Honor Society at Louisiana State University at Baton Rouge (served as Faculty Advisor), 1993-94.
- (2) *Third Place*, National Outstanding Chapter, Alpha Pi Mu Honor Society at Louisiana State University at Baton Rouge (served as Faculty Advisor), 1994-95.
- (3) *Second Place*, National Outstanding Chapter, Alpha Pi Mu Honor Society at Louisiana State University at Baton Rouge (served as Faculty Advisor), 1995-96.
- (4) *Third Place*, National Outstanding Chapter, Alpha Pi Mu Honor Society at Louisiana State University at Baton Rouge (served as Faculty Advisor), 1996-97.

(C) BOOK REVIEWS FOR PUBLISHERS PRIOR TO PUBLICATION:

- (1) *Production and Operations Management* (4th edition, 1989) by Norman Gaither, Dryden Press, Hinsdale, IL, 1988-89.
- (2) *Introduction to Engineering Design Optimization* (1st edition, 1997) by Chinyere Onwubiko, PWS Publishing Company Boston, MA 02116-4324, November 1996.
- (3) *Manufacturing Systems Modeling and Analysis* (1st edition, 2003) by Guy L. Curry, Brooks/Cole Duxbury Publishing Company, Belmont, CA 94002; March 16, 2003.
- (4) *Introduction to Statistical Quality Control: Design and Six Sigma* by Theodore Allen, 1st Edition, Prentice-Hall, Inc. Upper Saddle River, NJ 07458, May 15, 2004.
- (5) *Applied Statistics and Probability for Engineers* by Douglas C. Montgomery and George C. Runger, 4th Edition, John-Wiley & Sons, Inc. New York, NY, September 15, 2004.
- (6) *Statistical Quality Design and Controls* by Richard E. DeVor, Tsong-how Chang, and John W. Southerland. 2nd Edition (2007), ISBN: 0-13-041344-5, Prentice-Hall, Inc. Upper Saddle River, NJ, November 19, 2005.
- (7) *Engineering Economics* by Stephen Robinson. 1st Edition, John Wiley & Sons, Inc., Hoboken, NJ, July 9, 2006 [POC: Lindsay Murdock].

After-Publication Review/Survey of Textbooks for Publishers:

1. *Simulation Methodology for Statisticians, Operations Analysts, and Engineers, Vol. I*, (1st edition, 1989) by P. A. Lewis and E. J. Orav, Wadsworth & Brooks/Cole Advanced Books & Software, Pacific Grove, CA [ISBN: 0-534-09450-3], March 1993.
2. *Manufacturing Facilities: Location, Planning, and Design* (2nd edition 1999) by Dileep R. Sule, International Thompson Publishing (ITP), Boston, MA [ISBN: 0-534-93435-8], May 1994.
3. *Statistical Quality Assurance Methods for Engineers* (1st edition, 1999) by Stephen Vardeman and J. Marcus Jobe, John Wiley & sons, Inc., New York, NY [ISBN: 0-471-7654321], November 1998.
4. *Total Quality Management* (2nd edition, 1999) by Dale H. Besterfield, *et al.*, Prentice-Hall, Inc., Upper Saddle River, NJ [ISBN: 0-13-639403-5], April 1999.
5. *Combinatorial Algorithms: Generation, Enumeration, and Search* (1st edition 1999) by Donald L. Kreher and Douglas R. Stinson, CRC Press, New York [ISBN: 0-8493-3988], May 1999.
6. *Fundamentals of Engineering Economics*, 2nd edition (2008), by Chan S. Park, Prentice Hall, Upper Saddle River, NJ 07458 (February 12, 2007).
7. *Fundamentals of Engineering Economics*, 3rd edition (2011), by Chan S. Park, Prentice Hall, Upper Saddle River, NJ 07458 (February 18, 2011)

(D) JOURNALS WHEREIN TECHNICAL PAPERS WERE PUBLISHED:

- *Annals of Operations Research*
- *Computers & Industrial Engineering*
- *Computers & Operations Research*
- *European Journal of Operational Research*
- *IIE Transactions*
- *Industrial Engineering Journal (India)*
- *Integrated Manufacturing Systems*
- *International Journal of Production Economics*
- *International Journal of Production Research*
- *International Journal of Quality and Reliability Management*
- *Journal of the Operational Research Society*
- *Journal of the Institute of Engineers (India)*
- *Journal of Operations Management*
- *Management Development*
- *OPSEARCH*
- *Production Planning & Control*

(E) REVIEWED PAPERS FOR JOURNALS:

- *Analysis and Modeling of Manufacturing Systems*
- *Annals of Operations Research*
- *Asia-Pacific Journal of Operational Research*
- *Computers & Industrial Engineering*
- *Computers & Operations Research*
- *Decision Sciences*
- *European Journal of Operational Research*
- *IEEE Transactions on Systems, Man and Cybernetics*
- *IIE Transactions*
- *Integrated Manufacturing Systems*
- *INTERFACE*
- *International Journal of Flexible Manufacturing Systems*
- *International Journal of Production Economics*
- *International Journal of Production Research*
- *International Journal of Operations and Production Management*
- *International Journal of Operations and Quantitative Management*
- *International Journal of Quality and Reliability Management*
- *International Journal of Systems Sciences*
- *International Transactions in Operations Research*
- *Journal of Applied Mathematics and Decision Sciences*
- *Journal of Industrial & Systems Engineering*
- *Journal of Manufacturing Systems*
- *Journal of Manufacturing Processes*
- *Journal of Operations Management*
- *Journal of Operational Research Society*
- *Journal of the Operational Research Society*
- *Location Science*
- *Management Science*
- *Mathematical and Computer Modelling*
- *Mathematics Today*

- *OMEGA: The International Journal of Management Science*
- *Operations Research*
- *OPSEARCH*
- *Proceedings of the Intl. Conference on Computers & Industrial Engineering*
- *Proceedings of the Decision Sciences Institute Conference*
- *Proceedings of the IEEE Conference on Robotics and Automation*
- *Proceedings of the Industrial Engineering Research Conference*
- *Production and Operations Management*
- *Production Planning & Control.*

<i>Year</i>	<i>1986-06</i>	<i>2007</i>	<i>2008</i>	<i>2009</i>	<i>2010</i>	<i>2011</i>
<i>Number of Papers Reviewed</i>	317	15	18	16	15	14

(F) REVIEWER FOR FUNDING AGENCIES:

- *National Science Foundation (NSF), Washington, DC:*

- Review Panel (DMII: Operations Research and Production Systems):
 - December 1995 (17 proposals).
- Reviewer (Decision Risk and Management Science):
 - Spring 1997 (15 proposals).
- Review Panel (Operations Research and Production Systems):
 - May 1997 (12 proposals), June 1997(2 proposals), November 2000 (15 proposals).
- Review Panel (Integration Engineering)
 - April 2001 (12 proposals).
- Reviewer Panel (CMII)
 - April 2007 (1 proposal), December 3, 2008 (9 proposals).

- *University of Rhode Island Transportation Center (URITC), Kingston, RI:*

- Reviewer for Research Proposal,
 - March 14, 2002 (1 proposal).

(G) PROFESSIONAL SERVICES:

Session Chair:

1. WA-27: Inventory Theory, *ORSA/TIMS Joint National Meeting*, Denver, CO, October 23-26, 1988.
2. TB-28: Facility Layout, *ORSA/TIMS Joint National Meeting*, Las Vegas, NV, May 7-9, 1990.
3. TB-55: Inventory Control and Queuing Networks, *3rd Industrial Engineering Research Conference*, Atlanta, GA, May 18-19, 1994.
4. WB-61: Dynamic Systems, *4th Industrial Engineering Research Conference*, Nashville, TN, May 24-25, 1995.
5. SA4 (2): Sizing and Scheduling Interfaces, *6th Production and Operations Management Society Conference*, Pittsburgh, PA, October 7-10, 1995.
6. SC8: Planning and Control Systems for New Process Technologies, *6th Production and Operations Management Society Conference*, Pittsburgh, PA, October 7-10, 1995.

7. SD5: Cellular Design and Layout, *INFORMS (Institute For Operations Research and Management Science) National Conference*, New Orleans, LA, October 29-November 1, 1995 (invited session).
8. WC15: Resource Allocation, *INFORMS (Institute For Operations Research and Management Science) National Conference*, New Orleans, LA, October 29-November 1, 1995 (invited session).
9. T6.1: Manufacturing Economics, *19th International Conference on Computers & Industrial Engineering*, Miami, FL, March 3-6, 1996.
10. SE18: Operations Management I, *INFORMS (Institute For Operations Research and Management Science) National Conference*, Atlanta, GA, November 3-6, 1996.
11. WD10: Logistics II, *INFORMS (Institute For Operations Research and Management Science) National Conference*, Atlanta, GA, November 3-6, 1996.
12. Sun 6-7: Production Systems, *6th Industrial Engineering Research Conference*, Miami Beach, FL, May 17-18, 1997.
13. Sun 7-5: Inventory, *6th Industrial Engineering Research Conference*, Miami Beach, FL, May 17-18, 1997.
14. SA-08: Cellular Manufacturing, *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Dallas, TX, October 26-29, 1997.
15. TE-30: Scheduling and Inventory, *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Dallas, TX, October 26-29, 1997.
16. MC32: Logistics-Supply Chains, *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Montreal, Canada, April 26-29, 1998.
17. T-1: Inventory Systems, *25th International Conference on Computers & Industrial Engineering*, New Orleans, LA, March 29-31, 1999.
18. T-3: Cellular Manufacturing II, *25th International Conference on Computers & Industrial Engineering*, New Orleans, LA, March 29-31, 1999.
19. Track II: Manufacturing II (Product and Process Design), Sunday: *9th Industrial Engineering Research Conference*, Cleveland, OH, May 17-18, 2000.
20. Session S16: Production and Inventory I, Sunday: *12th Industrial Engineering Research Conference*, Hilton Towers at Portland, OR, May 17-21, 2003.
21. Session S118: Logistics and Scheduling 9, Monday: *12th Industrial Engineering Research Conference*, Hilton Towers at Portland, OR, May 17-21, 2003.
22. Track TD33 (5): Sequencing and Scheduling II, *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Atlanta, GA, October 19-22, 2003.

23. *Track #IERC-28: Logistics and Inventory – 9: Supply Chain Integration I, 15th Institute of Industrial Engineers Annual Conference, Orlando, FL, May 20-24, 2006.*
24. *Track: Plenary Session (Invited Talk 11:45-13:45): Revenue Management, Network Analysis and Meta Analysis, the 39th Annual Convention of Operational Research Society of India, Heritage Institute of Technology, Kolkata, India, January 6, 2007.*
25. *Track: SC-1 (Supply Chain 1): Supply Chain Management, International Conference on Industrial Engineering and Operations Management (IEOM-2010), Islamic University of Technology (IUT), Board Bazar, Gazipur, Dhaka, January 9-10, 2010.*
26. *TD-12: Supply Chain Systems (Consignment Stock), INFORMS (Institute For Operations Research and Management Science) National Meeting, Austin, TX, November 7-10, 2010.*

(H) LECTURE ORGANIZED:

1. *Primary Host, Chancellor Distinguished Lecture Series Speaker: Dr. Salah E. Elmaghraby, University Professor, North Carolina State University, Raleigh, NC: at LSU on March 10-12, 1999 [First speaker of the series; Total 250 attendees].*
2. *Primary Host, Chancellor Distinguished Lecture Series Speaker: Dr. Hanif D. Sherali, Member of the National Academy of Engineering, VPI and State University, Blacksburg, VA: at LSU on March 19-21, 2003: Total 203 attendees].*

7. UNIVERSITY/COMMUNITY SERVICE

A) SERVICE TO THE DEPARTMENT:

- *Advisor, Alpha Pi Mu Society, 1991-97*
- *Advisor, Undergraduate Curriculum, 1991-93*
- *Member, Graduate Curriculum Committee, 1991-92*
- *Member, Manufacturing Research Group, 1991-92*
- *Member, Faculty Search Committee, 1991-92*
- *Member, IMSE Department Chair Search Committee, 1993-94*
- *Chairman, Scholarships and Awards Committee, 1991-2000*
- *Coordinator, MSIE Board of Regents Self-Assessment Review Report, 1992*
- *Member, Strategic Planning Committee, 1994-1998*
- *Chairman, Sub-Committee on OR Curriculum, 1994-95*
- *Member, Curriculum Committee, 1994-1996*
- *Member, Research and External Funding Enhancement Committee, 1997-99*
- *Contributor to the IMSE Department Endowed Support Fund, 1997*
- *Member, Curriculum Committee (Updating and Information Technology), 1999-2001*
- *Member, Course Scheduling Committee, 1999-2000*
- *Coordinator, IMSE Graduate Program, 2000-2002; 2011-*
- *Member, EIT Tutorial Group, Fall 2000*
- *Coordinator, Graduate Seminar Series (Spring 1999, Fall 2000, Spring 2002)*
- *Member, Faculty Mentoring Drafting Committee (Fall 2001)*
- *Member, ITAP Student Selection Committee (2002)*
- *Chair, Curriculum Review Committee, 2004*

- *Chair, New- Faculty (untenured) Reappointment Evaluation Committee, Spring 2005*
- *Chair, Departmental Promotion and Tenure Committee, 2002- 2006*
- *Member, Faculty Search Committee (2005-2007)*
- *Member, Departmental Promotion and Tenure Committee, 2007-08*
- *Member, Departmental Promotion and Tenure Committee, 2008-*
- *Member, Departmental Syllabus Committee for ABET (USC) for ABET, Spring 2009*
- *Representative, CMIE P&T Committee, Spring 2009.*
- *Member, Graduate Admission Committee 2010*
- *Member, Curriculum Review Sub-Committee, 2010*
- *Member, ME & IE Merging Transition Committee, 2011*

(B) SERVICE TO THE COLLEGE OF ENGINEERING:

- *Member (Ex-Officio), College Academic Matters Committee, 1998-2001.*
- *Member, LSU COE Research Development Group, 2000-.*
- *Member, LSU COE P&T Ad-hoc Committee, Fall 2000*
- *Member, Coordination Council for Environ. & Technology Hazards Prevention, 2000-2001*
- *Member, COE Graduate Coordinator's Committee, 2001-2003*
- *Member, IMSE Department Chair Search Committee, 2001*
- *Member, COE MSES/PhDES Focus Group on Infrastructure, 2001.*
- *Election Commissioner, LSU Faculty Senator Selection from COE, 2001*
- *Joint Election Commissioner, LSU Faculty Senator Selection from COE, 2002, 2003*
- *Alternate Member, College Policy Committee, 2003.*
- *Member, LSU COE P&T Ad-hoc Committee, Fall 2003, 2004, 2005*
- *Chair, College of Engineering Promotion and Tenure (P&T) Committee, 2004-2005*
- *Member, LSU COE P&T Ad-hoc Committee, Spring 2006*
- *Member, College Policy Committee, (2007-2009)*
- *Election Coordinator, COE College Policy Committee, 2009*
- *Member, Pilot Program for Expanded Proposal Preparation, 2010*
- *Member, Supply Chain & Logistics External Collaboration Committee, 2009-2010*

(C) SERVICE TO THE UNIVERSITY

- *Graduate School Representative to doctoral examinations*
- *Associate Member, Graduate Faculty, 1990-96*
- *Member, Graduate Faculty, 1996-*
- *Member, Systems Science (Computer Science Dept.) Curriculum Committee, 1992-97.*
- *Member, Univ. Senate Committee on Admissions, Standards and Honors (ASH), 1994-97.*
- *Primary Host, Chancellor Distinguished Lectureship Series, March 10-12, 1999*
- *Faculty Advisor, Bangladesh Students' Association (LSU Students' Welfare), 1997-*
- *Member, University Senate Committee on Courses and Curricula, 1998-2001.*
- *Member, Dean Search Committee for the College of Engineering, 1999-2000.*
- *Senator, LSU Faculty Senate, 2000-2003.*
- *Reviewer/Member, 2001 Council on Research Sub-Committee on Summer Stipends at LSU.*
- *Primary Host, Chancellor Distinguished Lectureship Series, March 19-21, 2003*
- *Member, LSU Students' Aid and Scholarship Appeals Committee (SAS), 2003-2006.*
- *Member, LSU COE Research Development Group (RDG), 2002-04.*
- *Member, LSU Council of Research Advisory Planning Committee, 2003-2006*
- *Member, EDA Proposal Review Committee 2007, 2008*
- *Member, Eng. Res. & Dev Group (LSU Office of Research & Graduate Studies), 2004-*
- *Senator, LSU Faculty Senate, 2010-2013.*
- *Faculty Mentor, Chancellor's Future Leaders in Research (CFLR) Program, 2011-*

(D) SERVICE TO THE STATE AND FEDERAL GOVERNMENTS:

- *Judge*, Capitol District Science Fair, LSU Field House, March 9, 1995
- *Special Judge*, Capitol District Science Fair (NASA Related Projects), March 9, 1995
- *Judge*, Louisiana State Science and Engineering Fair, April 7, 1995.
- *Jury*, U.S. District Court (Middle District of LA), Baton Rouge, LA, February 9, 1998
- *Judge*, Capitol District Science Fair, March 4, 1998
- *Judge*, Louisiana State Science and Engineering Fair, April 7, 1998.
- *Judge*, Capitol District Science Fair, LSU Field House, March 1, 2000
- *Judge*, Louisiana State Science and Engineering Fair, April 14, 2000.
- *Advisor*, NASA-MSFC Space Launch Initiative Cost and Econ. Research Group, 2001-02.

(E) SERVICE TO NON-GOVERNMENT ORGANIZATIONS:

- *Judge*, Pre-Teen America: Scholarship and Recognition Program, Springdale, AR, September 1-3, 2000.

8. CURRICULUM DEVELOPMENT AND COURSES TAUGHT:

(A) NEW COURSES DEVELOPED:

CM-4xxx: Construction Logistics and Procurement (LSU, Undergraduate; May 11, 2009)
IE-3520: Supply Chain Logistics I (LSU, Undergraduate; April 18, 2006)
IE-4512: Operations Research in Engineering II (LSU, Undergraduate; November 5, 1996)
IE-4520: Supply Chain Logistics II (LSU, Undergraduate; April 18, 2006)
IE-4530: Lean Manufacturing Systems (LSU, Undergraduate; April 18, 2006)
IE-7382: Probability Theory in Engineering (LSU, Graduate; January 13, 1999)
IE-7541: Linear Programming Algorithms (LSU, Graduate; Spring 1994, 2001, 2008)
IE-7551: Queuing Theory (LSU, Graduate; Spring 1993)
IE-7571: Network Modeling and Optimization (LSU, Graduate; Fall 2004)
IE-7761: Production Planning & Control (LSU, Graduate; Spring 1993)
IE-7762: Supply Chain Systems (LSU, Graduate; January 26, 2000)
IE-7764: Logistics and Distribution Systems (LSU, Graduate; January 2010)
IE-7765: Lean Production Systems (LSU, Graduate, August 2002; initiated as IE-7721)
IE-7768: Sequencing and Scheduling (LSU, Graduate, Fall 2004, initiated as IE-7720)
IE-7771: Engineering Design of Manufacturing Systems (LSU, Graduate; Fall 1994)
IE-7720: Logistics and Industrial Distribution (LSU, Graduate; Fall 2006).

(B) COURSES UPDATED:

IE-3520: Supply Chain Logistics I (LSU, Undergraduate; May 31, 2008)
IE-4510: Operations Research in Engineering I (LSU, Undergraduate; April 12, 1996)
IE-4520: Supply Chain Logistics II (LSU, Undergraduate; May 31, 2008)
IE-4512: Operations Research in Engineering II (LSU, Undergraduate; April 12, 1998)
IE-7771: Design of Manufacturing Systems (LSU, Graduate; Revised Fall 1994)

(C) COURSES TAUGHT:

(1) Bangladesh Institute of Management (BMDC):

Time and Motion Studies (BMDC-United Nations Development Program: 1977-78)
Operations Control (BMDC-United Nations Development Program: 1977-78)
Quantitative Decision Analysis (1978)

Project Management (1977-78)
Industrial Quality Control (1977-78)
Facilities Planning and Layout (1977)
Materials Management (1977-78)

(2) Syracuse University, Syracuse, NY:

Math-316: Probability and Statistics (1979-82)

(3) The University of Oklahoma, Norman, OK:

Math-412: Applied Probability and Statistics (Spg 1983)

(4) Centralia College, Centralia, WA:

BA-100: Business Mathematics (1984-85)
DP-130: Computer Logic (1984-85)
DP-143: Computer Information Systems (1984-85)
DP-151: Computer Languages (1984-85)
DP-163: Systems Analysis (1984-85)

(5) The University of Texas at Austin, TX:

Man-335: Production and Operations Management (1986-87)

(6) Texas A&M University, College Station, TX:

INEN-315: Production Control Systems (1987-90)
INEN-420: Operations Research I (1987-90)

(7) Louisiana State University, Baton Rouge, LA:

Undergraduate Level:

IE-3201: Engineering Economics (Sum 95, 00, Spg 06, Sum 06, 07, Spg 08, 09)
IE-3302: Engineering Statistics (Spg 01, Fall 04, Spg 06, Sum 06, Fall 06, Spg 07, s 09, 11)
IE-3520: Supply Chain Systems I(Fall 11)
IE-4362: Advanced Engineering Statistics (Fall 02, 03, Spg 04, 07, Fall 07, 08, 09, 10)
IE-4382: Applied Probability Theory (Spg 96)
IE-4419: Engineering Production Control (Fall 92, 93, 98, 00, Fall 04, 05)
IE-4453: Industrial Quality Control (Fall 98, 99, Spg 00, 02, 11)
IE-4510: Operations Research in Engineering I (Spg 95, 01, 05, 07)
IE-4511: Industrial Simulation (Fall 90, 91, 92, 94, 95, 96, 97, 01)
IE-4512: Operations Research in Engineering II (Spg 96)
IE-4520: Supply Chain Logistics II (Spg 08, 09, 10, 11)
IE-4540: Reliability Engineering (Spg 93, 94, 97, 98, 99, 03, 07, 08, 10)

Graduate Level:

IE-7541: Linear Programming Algorithms (Fall 96, 08)
IE-7561: Programming Methods in Oper. Res. (Spg, 91, Fall 94, Fall 10)
IE-7720: Production Scheduling and Inventory Systems (Fall 91)
IE-7720: Production and Mfg. Systems (Spg 93)
IE-7721: Analysis of Industrial Operations (Spg 92)
IE-7721: Design of Production and Manufacturing Systems (Spg 92)
IE-7761: Production Planning & Control (Fall 93, 95, 97, 01)
IE-7762: Supply Chain Systems (Fall 00, 02, Spg 04, 09)
IE-7771: Design of Manufacturing Systems (Spg 94, 95, 97, 98, 99, 00, 02).
IE-7765: Lean Production Systems (Spg 03, 05, Fall 07, 11)

IE-7768: Sequencing and Scheduling (Fall 03, 05)
IE-7720: Logistics and Industrial Distribution (Fall 06)

9. THESES/DISSERTATIONS COMMITTEES SERVED:

(A) POST-DOCTORAL/VISITING SCHOLARS SUPERVISION:

1. **Dr. Zhixiang Chen** (Professor, Department of Management Sciences, School of Business, Sun Yat-Sen University, 135 Xingang Xi Road, Guangzhou 510275, P.R. of China), DURATION: September 11, 2007 – June 30, 2008, RESEARCH CONCENTRATION: Supply Chain Logistics and Lean/JIT Production Systems.
2. **Dr. Bibhas C. Giri** (Associate Professor, Department of Mathematics, Jadavpur University, Kolkata, India), DURATION: January 17, 2012 – September 30, 2012, RESEARCH CONCENTRATION: A quantitative study of managing disruption risks in supply chains (Scheduled and funded by the Fulbright Council for International Exchange of Scholars, Washington, DC).[Scheduled].

(B) PHD DISSERTATION SUPERVISED:

1. **Junfang Yu** (Machine-cell location problems for multi-product flowlines), LSU-IMSE Department, October 20, 1999; 381 pages (Advisor: Bhaba R. Sarker). Assistant Professor, Louisiana State University, Baton Rouge, LA 70820. [4 journal papers in *EJOR* and *COR*; 3 proceedings papers, and 3 presentations]. [Assistant Professor, Eng. Systems & Mgmt. Information, Southern Methodist University, Dallas, TX].
2. **Shaojun Wang** (Control of Supply Chain Systems by Kanban Mechanism), LSU-IMSE Department, March 20, 2001; 190 pages (Advisor: Bhaba R. Sarker). Assistant Professor of Industrial and Engineering Technology, Southeast Missouri University, Cape Girardeau, MO [7 journal papers in *EJOR*, *JORS*, *COR*, *JORS*, *IJPE*, and *PPC*; 6 proceedings and 5 presentations]. [Associate Professor of Industrial Engineering, South-East Missouri State University, Cape Girardeau, MO].
3. **Ahmad Diponegoro** (Finite-Horizon Operations Planning for a Lean Supply Chain System), LSU-IMSE Department, May 13, 2003; 162 pages (Advisor: Bhaba R. Sarker). Consultant in Indonesia. [7 papers in *IJPE*, *COR*, *EJOR*, *JORS* and *OPSEARCH* and 4 proceedings papers, and 2 conference presentations]. [Associate Professor, Badong Institute of Technology, Indonesia].
4. **Pablo Biswas** (Optimal Control of Production and Distribution in a Supply Chain System Operating under a JIT Delivery Policy), LSU-IE Department, November 20, 2006, 131 pages (Advisor: Bhaba R. Sarker). 1 paper in *IJPR* and [4 papers in review by *EJOR*; *IJPR*, *OPSEARCH* and *JORS*, 4 proceedings papers, and 2 conference presentations].
5. **Mohammad Anwar Ashek Rahman** (Stochastic Demand Forecast and Inventory Management of a Seasonal production in a Supply Chain Systems), LSU-CMIE Department (Engineering Science), October 4, 2007; 106 pages (Advisor: Bhaba R. Sarker). 1 paper in *EJOR* and 3 conference presentations. [Assistant Professor of Industrial Engineering, University of Southern Mississippi, Biloxi, MS].

Currently Supervising:

- **Hengameh Tahmasebi** (Supply Chain Systems, Expected May 2010)
- **Huizhi Yi** (Optimal consignment policy for a supply system with controllable lead time, May 2012)
- **Bingqing Wu** (Biomass supply system and renewable biogas processing plant location, December 2015)

(C) MS THESES/REPORTS SUPERVISED:

1. P. Sobhan Babu (A Construction Heuristic for One-dimensional Machine Location Problems); An MS Thesis (145 pages), LSU-IMSE Department, March 30, 1993.
2. Jose R. G. Leal DosSantos (Evaluation of the Classed-based Storage Scheduling Technique Applied to Dual Shuttle Automatic Storage and Retrieval Systems), An MS Thesis (85 pages), LSU-IMSE Department; December 1993 (Co-advisor: Lawrence Mann); [1 paper in *PPC*].
3. Haixu Pan (Minimization of Utility Time and Idle Time of Operators in a Mixed-Model Assembly Line); An MS Thesis (119 pages), LSU-IMSE Department, October 29, 1993, [4 papers in *IJPE*, *C&IE*, *JORS*, and *IJPR*, 4 proceedings]. [ABC Manufacturing Co., San Jose, CA]
4. Junfang Yu (A Procedure for Solving Bottleneck Problems in a Cellular Manufacturing System: An MS non-thesis research report published in *IJPR*); LSU-Engineering Science, February 3, 1994 [3 papers *IJPR*, *C&IE*, and *IJORM*, 2 proceedings and 2 conference papers]. [Faculty at Southern Methodist University].
5. Vijay S. Nori (A Branch-and-Bound Approach to Solve One-Dimensional Machine Location Problems); An MS Thesis (201 pages), LSU-IMSE Department, August 4, 1994 (**1995 IIE Graduate Research Award winner(2nd Prize) for MS Thesis**), [3 papers in *JORS* and *PPC*, 1 proceeding paper and 1 presentation]. [Senior Consultant, Velent, Inc., Atlanta, GA].
6. Chidambaram B. Balan (Operations Planning for A Multi-stage Kanban System with Linear Demand), An MS Thesis (147 pages), LSU-IMSE Department, February 2, 1996 [4 papers *IJPR*, *EJOR*, and *IJPE*, 2 proceedings and 4 presentations]. [Manager, US Airline, Chicago, IL.].
7. Khan Md. Saiful Islam (Similarity Coefficient Measure for the Design of Cellular Manufacturing Systems), An MS Thesis (119 pages), LSU-IMSE Department, March 19, 1998 [2 journal papers in *C&IE*, and *IJPR*; 2 proceedings papers].
8. Mahbubur R. Chowdhury (Optimal Ordering Policies for Products with Shelf Lives), An MS Thesis (90 pages), LSU-IMSE Department, May 14, 1998 [1 journal paper in *IJPR*, and 1 proceedings].
9. Shaojun Wang (A Depot Allocation Model for Electric Power Restoration after A Natural Disaster); An MS Thesis (119 pages), LSU-IMSE Department, December 4, 1998

[1 journal paper in *EJOR*; 2 proceedings papers]. [Associate Professor, SE Missouri State University].

10. Ahmad Diponegoro (Asymmetric and unequally-spaced machine location problem in a multi-product flowline), An MS Thesis (154 pages), LSU-IMSE, May 17, 2000. **2001 IIE Graduate Research Award winner (2nd Prize) for MS Thesis**. [2 journal papers in *EJOR*, and *JORS* ; 4 conference presentations]. [Faculty, Badung Institute of Technology, Indonesia].
11. Pablo Biswas (Optimal batch quantity models for a lean production system with rework and scrap), An MS Thesis (90 pages), LSU-IMSE Department, December 3, 2002 [2 journal papers under review by *JORS* and *C&IE*; 1 paper in conference]
12. Swati Kambalapally (Web-Mapping for AIDS Case Trends in Louisiana), A non-thesis Research Report (37 pages), LSU-Engineering Science, (Co-advisor: Nina S.-N. Lam, Dept. of Geography and Anthropology), December 9, 2002.
13. Mohammad Anwar Ashek Rahman (Supply chain models for an assembly system with preprocessing of raw materials), An MS Thesis (87 pages), LSU-IMSE Department, December 9, 2002 [1 journal papers under review by *EJOR*], [Faculty at University of Southern Mississippi, Biloxi, MS].
14. Mahmood Abdullah Al Kindi (Optimal ordering policies in response to discount offer, An MS Non-thesis Research Report), An MS Thesis (26 pages), LSU-IMSE Department, November 26, 2003 [1 paper in *IJPE*]. [Faculty, Department of Mechanical and Industrial Engineering, Oman University].
15. Divesh Ojha (Optimal Batch Sizing for Imperfect Production Systems with Quality Assurance and Rework, An MS Non-thesis Research Report (56 pages), LSU-IMSE Department, December 2, 2003 [1 journal paper in *IJPR*]. [Assistant Professor, University of Texas at Denton, TX].
16. Erick J. Comeaux (Joint Optimization of Process Improvement Investments for Supplier-Buyer Cooperative Commerce), An MS Thesis (66 pages), LSU-IMSE Department, December 3, 2003 [2 journal papers in *JORS*]. [Manager, Crompton Chemical Corporation, Geismar, LA].
17. Sanjay Gurav (Route Planning of Automated Guided Vehicles for Container Logistics), An MS Thesis (63 pages), LSU-IMSE Department, March 31, 2004, [1 paper in *IJPR*].
18. Amresh D. Chawhan (An Optimal Ordering and Recovery Policy with Multiple Setups for Recoveries and Procurements), An MS Non-thesis Research Report (35 pages), LSU-IMSE Department, November 8, 2004 [1 paper under review by OPSEARCH].
19. Hengameh Tahmasebi (An Optimal Inventory Policy for an Integrated Supply System with Shortages Backordered: An Efficient Algebraic Approach), An MS Non-thesis Research Report (40 pages), LSU-IE Department, May 15, 2006 [1 paper for *EJOR*].

20. Deniz Mungan (An optimal operational policy for an integrated production-delivery system under continuous price decrease), An MS Thesis (77 pages), LSU-CMIE Department, March 30, 2007), [2 papers for *JORS* and *EJOR*].
21. Farhana Rahman (Three-Echelon Supply Chain Delivery Policy with Trade Credit Consideration), An MS Thesis (78 pages), LSU-CMIE Department, August 25, 2008.
22. Chiranjit Saha (An Operational Policy for a Single Vendor Multi-Buyer Integrated Inventory Supply Chain System Considering Shipping Time, An MS Thesis (68 pages), LSU-CMIE Department, March 20, 2010.
23. Ratkrit (Nai) Rochanaluk (Replenishment Policies for a Tree-type Three-Echelon Supply Chain System, An MS Thesis (98 pages), LSU-CMIE Department, May 17, 2011).
24. Bingqing Wu (An Optimal Production and Delivery Scheduling Model for a Supply Chain System of Deteriorating Items, An MS Thesis (63 pages), LSU-CMIE Department, September 29, 2011).
25. Huizhi Yi (An Integrated Inventory System with Controllable Lead Time under the 'Consignment Stock' Case, An MS non-thesis report (98 pages), LSU-CMIE Department, September 1, 2011).

Currently Supervising:

- **Akintunde (Akin) Okedokun** (Requirement Planning for Deteriorating Materials in a Supply Chain System, Expected Summer 2012)

(D) SERVED AS A MEMBER OF THE COMMITTEES

(i) PhD Dissertations:

1. Mary P. Langley (Learning Horn-clauses as Classification Rules for Relations), LSU-Computer Science Department, Fall 1992 (Advisor: S. Kundu).
2. Joseph Claudet (An Exploration of the Organizational Structure of Instructional Supervision), LSU-College of Education, April 1, 1993 (Advisor: Chad D. Ellett).
3. Daryl D. Thomas (An Incremental Navigation Localization Methodology for Applications to Semi-Autonomous Mobile Robotic Platforms to Assist Individuals Having Severe Motor Disabilities), LSU-Computer Science Department, February 1, 1994 (Co-advisors: S. S. Iyengar and James Oxley).
4. Maurice George Durler (An Empirical Analysis of the Association Between the Intercompany Effects of Electronic Data Interchange and Level of Computerization and Integration of the Accounting Information System in Small Business), LSU-Accounting Department, March 4, 1997 (Advisor: Michael S. Luehlfiing).

5. Robert (Bobby) C. Baker, IV (Customers' Perceptions of the Service They Receive: The Influence of Employee Extra-role Job Behaviors), LSU-Psychology (Industrial/Organizational Psychology) Department, June 29, 1999, (Advisor: Eric Braveman).
6. Chuang Zhang (Techniques for low voltage analog, digital and mixed signal integrated circuits design), LSU-Electrical and Computer Engineering Department, February 23, 2005, (Advisor: Ashok Srivastava and Pratul Ajmira).
7. James Douglas Rogers (Speech Communication), LSU-Department of Speech Communication, November 9, 2005 (Advisor: Loretta I. Pecchioni).
8. Kimberly Nichols LaPrairie (Insights into Using Emergenetics® STEP^{AM} as a Selection and Placement Strategy to Enhance Process and Performance in High School Learning Groups), Department of Educational Leadership, Research and Counseling, February 15, 2007 (Advisor: Prof. Janice Hinson).
9. Hongye Wang (A Unified Methodology of Maintenance Management for Repairable Systems Based on Optimal Stopping Theory), Department of Industrial Engineering, LSU, July 28, 2008 (Advisor: Xiaoyue Jiang).
10. Glynn W. Cavin, Jr. (The Problem Solving Styles of Emergency Operations Center Staffs of Local and State Government Agencies), School of Human Resource Education & Workforce Development, May 14, 2009 (Advisor: Dr. Krisanna L. Machtmes).
11. Srivathsan Srinivasagopalan (Oblivious Network Design: Buy-at-Bulk Network Design Problems and Wireless Sensor Networks), LSU-Computer Science Department, April 13, 2011 (Co-Advisors: S. S. Iyengar and Costas Busch).
12. Paritosh Sharma (Process Optimization and Supply Chain), LSU-Chemical Engineering, Proposal: February 25, 2011, Graduation expected May, 2012 (Co-Advisor: Jose A. Romagnoli).
13. Jerry Weltman (Toward Digitizing the Human Experience: A new Resource for Natural Language Processing), LSU-Computer Sciences, Proposal defended: October 27, 2011 (Advisor: S. S. Iyengar).
14. Gregory Robertson (Supply Chain in Chemical Process Industries), LSU- Chemical Engineering, Proposal: December 2011 (Co-Advisor: Jose A. Romagnoli).
15. Abhimanyu Halder (Semantics Analysis), LSU-Engineering Sciences Program, Proposal: Spring 2012 (Advisor: Gerry K. Knapp).

(ii) MS Theses:

1. Gyana R. Parija (Traffic Signal Timing Optimization Using Simulation and Dynamic Programming), LSU-IMSE Department; December 1991 (Advisor: Kwan S. Lee).
2. Srikanth Nagarajan (Implementation and Comparison of Methods for Identification of Wet Hazardous Locations), LSU-IMSE Department; December 1991 (Advisor: Kwan S. Lee).

3. Subhasis Mukherjee (Research Report), LSU-Civil and Environmental Eng., May 1993 (Advisor: Dipak K. Roy).
4. Imran Hashmi (An Investigation of Injuries in the Oil and Gas Field Services Industry in Louisiana), LSU-IMSE Department; December 1993 (Advisor: Fereydoun Aghazadeh).
5. Sembian Krishnamurthy (An Integrated Method for Facility Layout Design Using Heuristics and CAD), LSU-IMSE Department, September 20, 1995 (Advisor: Lawrence Mann, Jr.).
6. Aniruddha S. Deshpande (Construction of Logical Decision Rules for Pattern Classification from Complete and Incomplete Data), LSU-IMSE Department, June 14, 1995 (Advisor: Evangelos Triantaphyllou).
7. Damin Li (The Application of Fuzzy Pattern Recognition in Weld and Weld Defects Identification), LSU-IMSE, December 16, 1996 (Advisor: T. Warren Liao).
8. Md. Shabbir Talukder (Accelerated testing), LSU-IMSE, March 12, 1998 (Advisor: Gerald M. Knapp).
9. Jaydeep Khedkar (Tribological Performance of PTFE and PTFE Composites in Mechanical Seal Applications), LSU-ME (Engineering Science), December 3, 1998 (Advisor: Efstathios I. Meletis).
10. Peter Haynes (A Metaheuristic Approach for the Single Machine Tardiness Problem), LSU-IMSE, December 10, 1998 (Advisor: E. Triantaphyllou).
11. Milton Maada Saidu (Effects of automobile seating posture on trunk muscle activities), LSU-IMSE, February 6, 2004 (Advisors: Fred Aghazadeh and Craig Harvey).
12. Viswanath Uma Gnanasekaran (Improved Opportunity Cost Algorithm for Carrier Selection in Combinatorial Auctions), LSU-IMSE, March 12, 2004 (Advisor: Gerald K Knapp).
13. Harish J. Kingree (Bezier Curves for Metamodeling of Simulation Output), LSU-IMSE Department, September 24, 2004, (Advisor: Charles McAllister).
14. Billy Gerald Yeung-Vee-Kao (Distribution Tails Classification for Linear Physical Programming in Multidisciplinary Design Optimization, MS Report), LSU-IE Department, August 1, 2005 (Advisor: Charles D. McAllister).
15. Frank M. Pitts (Musculoskeletal Disorders in Dentistry), LSU-IE Department, November 15, 2005, (Advisor: Fred Aghazadeh).
16. Peng Zhu (Optimal Maintenance on Warranted Product and Maintenance Service Contract with Preventive Replacement), LSU-IE Department, November 15, 2005 (Advisor: Xiaoyue Jiang).
17. Maryam Muhammed Amin (Influence of Circadian Rhythm on the Physical and Mental Performance), LSU-IE Department, December, 2006 (Advisor: Fred Aghazadeh).

18. Sherwin Shaidae (LSU Course and Curriculum Management), LSU-IE Department, December 2006 (Advisor: Gerald Knapp).
19. Mohammad Anwar Ashek Rahman (Demand Forecast of a Seasonal Product prior to Mail Sale Period using Bayesian Techniques, 41 pages), MS Report, LSU-EXST Department, November 13, 2007 [Advisor: Luis A. Escobar].
20. Satya Anasuya Paritala (Effects of Physical and Mental Activities on Heart Rate Variability), LSU-IE Department, May 2009 (Advisor: Laura Ikuma).

(E) EXTERNAL EXAMINER (INTERNATIONAL)

1. Tan Mien Duan (Michael Tan), M. Eng Thesis (Linear Programming Models for Supply Chain Analysis), National University of Singapore, Industrial Engineering Department; February 22, 2002 (Advisors: Professor L. C. Tang and H. L. Ong).
2. Teng Suyan, Ph.D. Dissertation (Design and Analysis of Algorithms for Solving Some Stochastic Vehicle Routing and Scheduling Problems), National University of Singapore, Industrial Engineering Department; September 22, 2003 (Advisors: Professors Ong Hoon Liong and Huang Huei Chuen).
3. Paramjeet Singh Rajpal, Ph.D. Dissertation (Modeling and Analysis of Reliability, Availability and Maintainability of Repairable Systems Using Certain Artificial Intelligence Techniques), Department of Applied Mechanics, Indian Institute of Technology, New Delhi-110016; June 16, 2006 (Advisors: K.S. Shishodia and G.S. Sekhon).
4. Kalipada Maity, Ph.D. Dissertation (On some inventory problems via optimal theory), Department of Mathematics, Vidyasagar University, Midnapore-721102, West Bengal, India. June 21, 2006 (Advisor: Manoranjan Maiti).
5. Liu Shubin, Ph.D. Dissertation (Routing and shop scheduling problems), Department of Industrial and Systems Engineering, National University of Singapore, Singapore, April 24, 2008 (Advisor: Professor Ng Kien Ming).
6. Chandrasekhar Vishnu Chaudhuri, Ph.D. Dissertation (An Integrated Methodology of the Study of Supply Chain Management using Theory of Constraints), Department of Production Engineering, Jadavpur University, Kolkata, India, December 13, 2007 (Advisor: Professors Bijan Sarkar and S. K. Mukhopadhyay).
7. Dibyendu K. Choudhury, Ph.D. Dissertation (Project Engineering Management for Mechanical Construction of Crude and Vacuum Distillation Units of Refinery), Department of Mechanical Engineering, National Institute of Technology, Kurukshetra University, Kurukshetra, HR 132119, India, March 3, 2011 (Advisor: Professor S.K. Sharma; Contact: Dr. Rajendra Kumar, Controller of Examinations).

(F) UNDERGRADUATE SUPERVISION:

(a) Senior Projects:

1. Dion A. Faucheux and Lee A. Lavespere (Improving Material Handling Bottleneck Problem in Daniell Battery Manufacturing Company, Baton Rouge, LA; Fall 1991).
2. Ricky D. Allen and Thomas E. Stirling (Facilities Layout Improvement, Fall 1992).
3. Khanh Mai, Mark Cosnahan, and Trieu Trinh (Production Schedule and Resource Requirement Planning in Electro-Medical Equipment Company, Baton Rouge, LA; Fall 2000).
4. Karelys D. Bastidas, Ilke Mollaoglu, and Sandra Paola Flores Corletto (Assessment of the LSU Campus Transit Transportation Systems, Baton Rouge, LA; May 8, 2002; POC: Eric T. Reid, Office of Parking, Traffic and Transportation, LSU).
5. Raymundo Castillo, Joy Smith and Claudio Gamio (Staff Planning and Scheduling at the Eatel Customer Service Call Center, Baton Rouge, LA; December, 8, 2002; POC: Lloyd Daniel, EATEL, 913 S. Burnside Avenue, Gonzales, LA 70737-4258).
6. Ana Lucia Rivera, Ernesto Allwood, and Trinh Thai (Scheduling of the EATEL Customer Support Representatives, May 15, 2003; POC: Charles Babin and Deborah Lambert, EATEL, 913 S. Burnside Avenue, Gonzales, LA 70737-4258).
7. Hunter Marks, Alfred Martin, and Deniz Mungan (Stock Control at School Time Uniforms, LLC, Madeville, LA Store #5), May 12, 2005; POC: Charles Babin and Deborah Lambert. .
8. Armeen Rahman, Zowril Razik, and Allan Williams (Inventory Control and Warehouse Layout), Window World, 8405 Airline Highway, Baton Rouge, LA 70815, May 12, 2007; POC: Jim Roland.
9. Jackoby Bertot, Roland LeBlanc, Laura Player and Phillip Singleton (Analysis of the Process of the Allocation of Mail Handling Equipment at USPS, Port Allen, LA), December 12, 2008. POC: Scott Sulick and Catherine Allen.
10. Gretel Barany, Diego Moreno, and Sina Zarei (Packaging System Renovation at Electro-Mechanical Equipment (EME) Company, Inc.: Introduction of Flow Wrapper), 12015 Industriplex Boulevard, Baton Rouge, LA 708009, May 2009, POC: Leonard Carmouche (225 751-0159.)

(b) Chancellor Future Leaders in Research Program (supervision):

1. Darren Michael Harkness: A Study on Software Usage and Capability Matrix (2000-2003).
2. Franklin Worrell: Supply Chain Software Capability Analysis (2001-2004).

APPENDIX II
MANUSCRIPTS SUBMITTED TO REFEREED JOURNALS

1. Biswas, P. and Sarker, B.R., "Optimal control of production supply systems with minimal idle time operating under just-in-time delivery policy," *International Journal of Production Research* (Submitted October 20, 2010).
2. Biswas, P. and Sarker, B.R., "Optimal control of multi-supplier and multi-buyer supply chain system with JIT Delivery," *European Journal of Operational Research* (Submitted December 15, 2007; 1st Revision September 4, 2008, 2nd Revision November 21, 2009, under revision).
3. Tahmasebi, H., Yu, J. and Sarker, B.R., "An optimal policy for a supply system with lost sales and multi-factored variable lead time," *Computers and Mathematics with Applications*, (Submitted October 26, 2011).
4. Chen, Z and Sarker, B.R. "Relationship between JIT production practice and production operations performance," *Production Planning and Control* (Submitted January 22, 2010, under revision June 2010).
5. Egbelu, P. J., Liao, T. W., and Sarker, B. R. "Scheduling and Material Staging to Minimize Handling Cost in Construction Projects," *Automation in Construction* (Submitted July 31, 2010, under revision July 2011).
6. Sarker, B.R., and Baylot, E.A., "Throughput capacity estimation for convoy movement in linked roads," *Journal of Transportation Engineering*. (Paper-2: Submitted March 29, 2011, 1st revision December 5, 2011).
7. Yi, H. and Sarker, B.R., "An integrated inventory system with controllable lead time under the 'consignment stock' case," *Journal of the Operational Research Society* (Submitted April 28, 2011).
8. Laili, Y., Tao, F., Zhang, L. and Sarker, B.R., "A study of optimal allocation of computing resources in cloud manufacturing systems," *International Journal of Advanced Manufacturing Technology (IJAMT)*, (Submitted June 20, 2011).
9. Sarker, B. R., Rochanaluk, R. and Egbelu, P.J., "An optimal replenishment policy for three-stage distributive supply chain system with retailers' backorders," *Computers and Operations Research* (Paper-1: Submitted August 5, 2011; under 1st revision October 24, 2011).
10. Sarker, B. R., Rochanaluk, R. and Egbelu, P.J., "Improving retailers' service rate and tree-type three-echelon supply chain system with backorders," *European Journal of Operational Research* (Paper-2: Submitted August 7, 2011).
11. Wu, B. and Sarker, B.R. "Optimal manufacturing and delivery schedules in a supply chain system of deteriorating items," *International Journal of Production Research* (submitted October 15, 2011).
12. Sarker, B.R. and Wu, B. "An economic production and supply chain model of deteriorating items with raw materials storage costs," *European Journal of Operational Research* (submitted October 17, 2011).
13. Chen, Z.X. and Sarker, B.R. "Integrated Optimal Models of Vendor Production and Buyer Procurement with Delivery-Vehicle Routing," *Operations Research* (submitted October 25, 2011).