

## **ROTIMI S. ADEROHUNMU**

Dept. of Statistics and Operations Research  
Daniels College of Business  
University of Denver, Denver, CO 80208  
TEL: (303) 871-2289

### **U.S. CITIZEN**

### **EDUCATION:**

**Ph.D.** SOUTHERN METHODIST UNIVERSITY, Dallas, Texas - 1986.  
Operations Research (Mathematical Programming, Production Systems)

**M.S.** SOUTHERN METHODIST UNIVERSITY, 1984  
Operations Research

**M.B.A.** UNIVERSITY OF DENVER, Denver, CO. - 1975  
Quantitative Methods

**M.S.** UNIVERSITY OF DENVER, Denver, CO - 1971  
Mechanical Engineering  
THESIS: Optimization of Explosive Forming of Tank Ends

**B.S.(with Honors)** AHMADU BELLO UNIVERSITY, Nigeria -1969  
Mechanical Engineering  
PROJECT: Design and Construction of a Solar Cooker  
**Won The Mobil Prize for Best Engineering Project.**

### **WORK EXPERIENCE:**

**ASSOCIATE PROFESSOR** 1993 - Present  
Department of Statistics and Operations Technology,  
University of Denver; Research and Teaching in Quality, Operations  
Management, Operations Research, Statistics for Graduate and Undergraduate  
Classes.

**ASSISTANT PROFESSOR** 1989 - 1993  
**VISITING ASSISTANT PROFESSOR** 1986 -1989  
School of Management, State University of New York at Binghamton; Research  
and Teaching in Operations Management, Manufacturing Management, Project  
Management, Quality, Statistics - Graduate and Undergraduate Classes.

**INSTRUCTOR** 1984 -1985  
Dept. of Computer Science, Southwestern Christian College, Terrel, TX. Taught  
BASIC Programming, Flow Charting, Computer Applications - Undergraduates.

**ADJUNCT PROFESSOR 1979 - 1980**

Faculty of Business Administration, University of Lagos.  
Taught Production Management - MBA classes

**MANAGEMENT CONSULTANT/HEAD OF DEPARTMENT 1976 -1980**

Center for Management Development, Lagos. Supervised and Conducted Consulting Assignments and Management Development Seminars in Production/Operations Management, Project Management. Business Feasibility Studies & Planning.

**PRODUCTION ENGINEER/PLANNER 1975 - 1976**

C.F.& I. Engineers, Denver CO. Designed Machine Parts, Scheduled Production Activities, and Carried Out Inventory Management in the Manufacturing of Sugar Machinery and U.S. Navy Winches.

**MECHANICAL ENGINEER 1972 - 1975**

Stearns Roger Corporation, Denver CO. Layout Design, and Stress Analysis of Piping Systems for Large Power Plants.

**RESEARCH ASSISTANT 1970 -1971**

Denver Research Institute, University of Denver  
Conducted Research on Explosive Fabrication of Metals.

**PUBLICATIONS & RESEARCH ACTIVITIES:**

**REFEREED ARTICLES:**

On "Joint Vendor-Buyer Policy in JIT Manufacturing," (with A. Mobolurin, and N. Bryson), **Journal of the Operational Research Society**, (1997).

"Equivalence of the One-Tailed, and Two-tailed Statistical Tests in Title VII Employment Discrimination Litigation," (with Darl Bien) **Proceeding of the Western Decision Science Institute, 1997.**

"Joint Vendor-Buyer Policy in JIT Manufacturing," (with A. Mobolurin, and N. Bryson), **Journal of the Operational Research Society**(1995), 46, 375-385.

"The Solution of Multiperiod Network Models with Bundle Constraints by Aggregation," (with J. E. Aronson), **Management Science**, Vol. 39, No. 1, January 1993, 54-71.

"Optimal Timing of New Product Projects," (with P. Burger) **Proceedings of Product Development & Management Association**, 1992.

FORNETR, a FORTRAN Code for Solving Multiperiod Network Problems (with J. Aronson, and David Chen), European Journal of Operations Research, No. 38, 1989, 119-120.

"A Network Aggregation Model for Scheduling the Multistage, Multi-Item, Capacitated Production System," being revised for Management Science. Has been Accepted for Publication (When Released) in Applications of Management Science an annual publication of selected practical research results in Operations Research and Management Science.

### **REFEREE ACTIVITIES**

I have refereed articles for many professional journals including:

*Management Science*

*Journal of the Operational Research Society*

*European Journal for Operations Research*

*Operations Research in Electrical Engineering & Computers*

*Annals of Operations Research*

*WDSI – Western Decision Science Institute*

### **UNPUBLISHED WORKING PAPERS & CASES:**

Cost Analysis of Order Splitting in JIT Purchase Agreements (with A. Mobolurin)  
Comparison of Three Supplier Policies in JIT Manufacturing (with Ayodele Mobolurin)

"Pro Renata Process at the Metropolitan Hospital,"- Process Awareness and Analysis used in Process Improvement Section of IMBA 4160.

"Ruth Owades - Location Example," An Appendix to a management case.

### **PRESENTATIONS & PROCEEDINGS:**

I have made presentations (some invited) at many professional meetings including ORSA/TIMS, WDSI, INFORMS, Product Development & Management Association.

"Equivalence of the One-Tailed and Two-tailed Statistical Tests in Title VII Employment Discrimination Litigation," (with Darl Bien) Proceeding of the Western Decision Science Institute, 1997.

"Optimal Timing of New Product Projects," (with P. Burger) Proceedings of Product Development & Management Association, 1992.

### **APPLIED RESEARCH**

Statistical Quality Control at a Can End Manufacturing Plant

"Equivalence of the One-Tailed and Two-tailed Statistical Tests in Title VII Employment Discrimination Litigation," (with Darl Bien).

"Propagation of Quality Problems Along a Supply Chain."

"Comparing Two Solution Methods to the Multiperiod Network Models with Bundle Constraints, by Aggregation" (with J.E. Aronson, and J. Higbie).

"Aggregation Techniques Applied to the Multiperiod Assignment Problem"

### **COURSES DEVELOPED**

Statistical Quality Control, 1993.

Data Collection and Analysis for SPC (External Seminars), 1991.

Management of the Software Development Project (Ext. Seminars), 1991

Project Management, 1987.

Manufacturing Management for Graduates and Advanced Undergraduates, 1987.

### **COURSES TAUGHT:**

### **PROFESSIONAL ACTIVITIES:**

**Member**, Operations Research Society of America.

**Member**, American Society for Quality Control.

**Reviewed** for Annals of Operations Research - Networks.

**Reviewed** for The European Journal for Operations Research

**Invited to be Reviewer for:** Journal of the Operational Research Society.

**Session Chairman** - Just-In-Time Production

Joint National ORSA/TIMS Meeting, Nashville, TN., May 1991.

**Session Chairman** - Network Flows,

Joint National ORSA/TIMS Meeting, Washington, D.C., April 1988.

### **PRESENTATIONS:**

"Comparison of Three Vendor Policies in JIT Manufacturing," (with A. Mobolurin, and N. Bryson), Proceedings of the National Meeting of ORSA/TIMS, New Orleans, October, 1995.

"The Joint Economic Delivery Lot Size in a JIT Environment," Presented at the Joint National ORSA/TIMS Meeting, Nashville, TN., May, 1991.

**Invited Presentation:** "A Network Aggregation Model for Scheduling the Multistage, Multi-Item, Capacitated, Production System." Presented at the TIMS/ORSA Meeting, Las Vegas, May, 1990.

"A Forward Network Based Implementation of an Algorithm for Solving Multiperiod Network Flow Problems," (with J. E. Aronson). Presented at the Joint National ORSA/TIMS Meeting, Washington D.C. April 1988.

"The Solution of Multiperiod Network Models with Bundle Constraints by Aggregation, Computational Results," Joint National ORSA/TIMS Meeting, New Orleans LA May, 1987.

"Computational Results of Problems Applying Aggregation of Multiperiod Network Models for Production Planning," (with J. E. Aronson). Presented at the Joint National ORSA/TIMS Meeting , Atlanta, GA, November, 1985.

"The Solution of Multiperiod Network Models with Bundle Constraints by Aggregation." Presented at the Joint National ORSA/TIMS Meeting, San Francisco, CA, May 1984.

#### **GRANTS & PROPOSALS:**

- NSF: Measuring the Impact of Automation and a Quality Assurance Program  
on the Quality of Service, Productivity, and Morale of Colorado Department of Health Research Survey Unit (with Tom Obremski, Hank Giclas, Marilyn Leff, and Carrol Garrett), 1994.
- Development of an Expert System to Determine the Optimum Product Development Speed (with P. Burger).
- General Electric Grant for Curriculum Development in Quality, (Team), 1991
- University-wide Competitive Summer Research Grant, 1990
- School of Management Competitive Summer Research Grant, 1992.

#### **ACADEMIC COMMITTEES:**

1993- IMBA Committee on Quality Management Course

AT BINGHAMTON UNIVERSITY, DISSERTATION/THESIS COMMITTEES:

- 1991 Chung-Yu Liu, **M.S. Industrial Engineering**, "An Expert System Approach to the Pick and Place Machine Selection."
- 1991 Hong-Ji Shieh, **M.S. Industrial Engineering**, "Developing a Selection Model for Pick and Place Equipment in Surface Mount Technology."
- 1990 Korosec, Francis, **M.S. Robotics**, "Industrial Automation and Experiment Creation."
- 1990 Cala, Martin, **Ph.D. Advanced Technology**, "An Intelligent Model-Based Process Planning Methodology for Surface Mount Technology."

#### **ADMINISTRATIVE COMMITTEES:**

- 1997- 1998 DCB Educational Technology Committee.
- 1995-1997 DCB Graduate Programs Committee.
- 1993-1994 College of Business Administration (CBA) Committee on Quality.
- 1994-1994 CBA Committee on Diversity.

#### **AT BINGHAMTON UNIVERSITY:**

- 1992 - 1993 School of Management Dean Search Committee
- 1992 - 1993 School of Management Computer Resources Planning Committee
- 1989 - 1992 School of Management Academic Standards Committee
- 1988 - 1989 President's Advisory Committee on Auxiliary Services
- 1987 - 1988 School of Management Ad Hoc Committee on Graduate Assistants
- 1987 - 1989 School of Management Computer Resources Committee

#### **CONSULTING ACTIVITIES:**

Consulting Activities Include:

A T & T Information Systems Development - Conducted Seminar on "Management of the Software Development Project," (Seminar for Project Managers).

Saulsbury Fire Equipment Company - Quality Audit, In House Seminar on Statistical Process Control.

Medicoaches Ambulance Manufacturing Company - Quality Audit, 1989. Problem Solving Course.

Mec-Rastor, (Biggest Management Consulting Firm in Finland) - Representative in Africa 1978 -1981.

**SEMINARS ATTENDED:**

"THE THEORY OF CONSTRAINTS (Optimized Production Technology)," 1990. Conducted for **APICS by Eliyahu Goldratt Institute.**

"MANAGEMENT OF QUALITY," May 23 -26, 1988.  
**Juran Institute, Stamford Connecticut.**

"SIMULATION TECHNIQUES USING PERSONAL COMPUTERS," May 9-13, 1988. Conducted by **The George Washington University , School of Engineering and Applied Science, Washington D.C.**

"PRODUCTION/OPERATIONS MANAGEMENT," March - May 1980.  
**Carl Duisberg-Gesellschaft Ev. and Procon Consulting GMBH, West Berlin**

"MANAGEMENT CONSULTING," June-September 1978.  
Conducted by **SGV Consulting Group, Manila, Phillippines.**

"PROCESS CONSULTING," 1977.  
Conducted by **International Labor Organization. Geneva, Switzerland.**