

GUNTER P. SHARP

Specialty Areas

Logistics, transportation planning, material handling systems analysis, project investment analysis, feasibility studies, facility planning.

Educational Background

Ph.D., Industrial and Systems Engineering, Georgia Institute of Technology, 1973.
M.S., Engineering Economic Systems, Stanford University, 1966.
B.I.E., Industrial Engineering, Georgia Institute of Technology, 1965.

Professional Experience

2009-present, Professor Emeritus, School of Industrial and Systems Engineering (ISyE), Georgia Institute of Technology (GT), Atlanta, Georgia, and Metz, France.
1973-2008 Assistant Professor, Associate Professor, School of Industrial and Systems Engineering (ISyE), Georgia Institute of Technology (GT), Atlanta, Georgia.
1982-1994 Program Manager for Warehousing Systems, Material Handling Research Ctr., GT. Responsible for inter-disciplinary research in material handling and logistics.
1986 Visiting Professor, University of Dortmund, Germany.
1977-1981 Project Director, Multi-State Corridor University Research Program, GT. U.S. DOT contract involving nine universities, 1976-81.
1966-1970 Industrial Engineer, consulting firms in Athens, Riyadh, Atlanta.

Consulting Activity (selected)

1. Halstead New England, Calhoun, GA, 2016-17. Robotics for packaging operations, warehousing.
2. NutraSweet, Augusta, GA, 2007-08. Warehouse analysis, lean manufacturing.
3. Shelman Swiss-Hellenic Wood Products Manufacturers, Athens, Greece, 2006. Manufacturing operations survey and warehouse operations analysis.
4. Papastratos Mfg. Co., Athens, Greece, 2001-2003. Distribution center redesigns for raw material and finished products warehouses. Justification of RF-bar code system and new warehouse management system.
5. Wolff & Samson, Roseland, NJ, 2001. Expert consulting on automated storage/retrieval system: evaluation of technology installed in an automated parking garage, evaluation of prospective contractors to complete a contract that was terminated due to default.
6. Michael Best & Friedrich, Chicago and Milwaukee, 1999. Expert consulting on warehouse and order picking system: development of analytical approach to support legal position for plaintiff in lawsuit over performance of facility.
7. Tria Epsilon Group, Athens, Greece, 1991-1999. Facility master plans for Athens, Thessaloniki, and Patras bottling plants; facility layouts for 3 plants; production planning and inventory control for 4 plants; production allocation of products; depot location study; warehousing analysis.
8. Bradley Specialty Retailing, Columbus, GA, 1997. Distribution center layout for sports paraphernalia distributor with 100,000 products. (Faculty liaison work)
9. Global Concepts, Little Rock, Arkansas, 1996-1997. Design of generic warehouse layout and operations analysis for an Auto-Zone parts distribution center containing 25,000 m² floor area, 32,000 pallet spaces, and 18,000 products.
10. Distech Pty. Ltd., Sydney, Australia, 1993-1994. Technology and market assessment for pick-to-light systems to improve order picking productivity and quality.

Books and Publications (selected)

1. Roodbergen, K., G.P. Sharp, and I.F.A. Vis, "Designing the Layout Structure of Manual Order-Picking Areas in Warehouses," *IIE Transactions*, 1032-1045 (2008).
2. Sharp, G.P., "Warehousing," in Taylor, G.D. (Ed.), *Logistics Engineering Handbook*, CRC Press, New York, Ch. 12 (2007).
3. Sharp, G.P., M. Garfinkel, and J. Sokol, "Minimizing Multi-zone Orders in the Correlated Storage Assignment Problem," in Meller, R., et al. (Eds.), *Progress in Material Handling Research: 2006*, MHI, Charlotte, pp. 387-406 (2006).
4. Lin, L. C., and G.P. Sharp, "Quantitative and Qualitative Indices for the Plant Layout Evaluation Problem," *Eur. Jrl. Optns. Research*, Vol. 112, (1999).
5. Lohmann, J., and Sharp, G.P., *Fundamentals of Engineering Economy*, electronic text, (2001). Written to support the video-streaming and web-based approach for remote delivery of the course that was developed in 1999.
6. Sharp, G.P., "Warehouse Management," in Salvendy, G. (Ed.), *Handbook of Industrial Engineering, 3rd Ed.*, John Wiley & Sons, New York, pp. 2083-2109 (2001).
7. Gibson, D.R. and Sharp, G.P., "Order Batching Procedures," *Europ. Jrl. Optnl. Res.*, Vol. 58-1, pp. 57-67, 1992.
8. Park, C.S. and Sharp-Bette, G.P., *Advanced Engineering Economics*, John Wiley & Sons, Inc., NY (1990).

Professional Society Activities (selected)

1. Registered Professional Engineer, Georgia, since 1974.
2. Member of numerous professional societies, including INFORMS, WERC, TRF, ASEE.
3. Transportation Science Section of Operations Research Society of America, Secretary 1978-1981, Vice-chairman 1981-1982, Chairman 1982-1984.
4. Member of Program Committee for ORSA/TIMS National Meetings, Atlanta, 1977, 1985, 1996.

Honors and Awards (selected)

1. "Joseph von Fraunhofer Honor Medal" in the category of "Foreign Scientist, 1990" at Dortmund, Federal Republic of Germany.
2. Presented opening plenary paper at European Logistic Association Congress, "Current Problems of Warehousing Design and Management," Stresa, Italy, September 1991.

Other

Administrator and Lead Instructor for *Advanced Order Picking Short Course*, Georgia Institute of Technology, Atlanta, 32 course offerings, 1988-1999.

Thesis advisor or co-advisor to 17 Ph.D. students and 20 M.S. degree students

Initiated and negotiated student/faculty exchange program between Georgia Tech and Dortmund University, Germany, in 1987; renegotiated in 1994. A total of 85 students have participated.

Initiated, negotiated, and assisted in establishing a research collaboration between Georgia Tech and Dortmund University, Germany, for the exchange of research results, in 1988.

Contact information

2209 Street Deville, Atlanta, GA 30345

Tel 678.462.1351, Tel 404.634.3581

E-mail: gs24@gatech.edu, gunterssharp@yahoo.com