10/17-18

OPERATIONS RESEARCH:

A Conference in Honor of Gerald L. Thompson On the Occasion of His 70th Birthday

Carnegie Mellon

Graduate School of Industrial Administration
Carnegie Mellon University
Pittsburgh, Pennsylvania

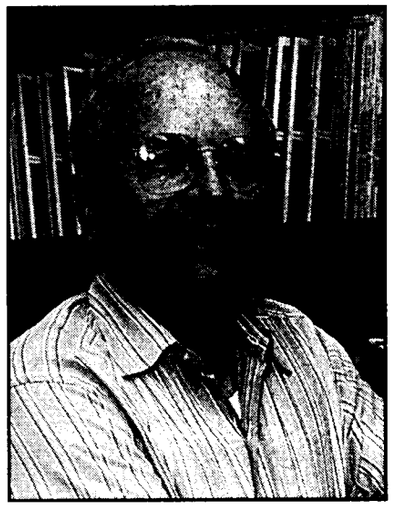
October 17-18, 1993

This conference honors Dr. Gerald L. Thompson on the occasion of his 70th birthday. Dr. Thompson is one of a small group of researchers who have created and used mathematical and computer modeling to meet the needs of business, government and industry. Dr. Thompson has achieved international recognition for both his research and for its wide variety of applications.

Dr. Thompson's groundbreaking work, combined with that of other scholars from major universities, has defined and expanded the role of management science and quantitative methods. He began this intellectual journey in the 1950s. After almost 40 years, he remains a leader in the field. The product of his efforts will endure as an important foundation in management well into the future.

This conference provides an opportunity for Dr. Thompson's former students and colleagues to gather and share their knowledge and expertise, and to express their appreciation for Dr. Thompson's professional contributions.

Please join in celebrating Dr. Thompson's 70th birthday.



Gerald L. Thompson is the IBM Professor of Systems and Operations Research at Carnegie Mellon's Graduate School of Industrial Administration. He is also a Senior Fellow of the IC^2 Institute at The University of Texas at Austin. He holds a B.S. in electrical engineering from Iowa State University, an M.S. in mathematics from the Massachusetts Institute of Technology, and a Ph.D. in mathematics from the University of Michigan.

Dr. Thompson taught at Princeton University, Dartmouth College, and Ohio Wesleyan University prior to joining Carnegie Mellon University in 1959 (then Carnegie Institute of Technology). He has also served as a guest lecturer for the Sandia Corporation, the University of Kansas Teacher's Institute, the Institute for Advanced Study in Vienna, the Mathematical Association of Ohio, and the University of Paris at Dauphine.

Dr. Thompson has been active in various professional societies, including The Institute of Management Sciences, the Operations Research Society of America, the Mathematical Association of America, and the American Association for the Advancement of Science. He has also served as a representative of the Institute of Management Sciences to a number of national committees, including the National Research Council and the American Association for the Advancement of Science.

Dr. Thompson has performed research supported by a number of governmental agencies, including the Office of Naval Research, the National Science Foundation, the Department of Energy, and the Defense Advanced Research Projects Agency. He has also worked on consulting and research projects for various corporations, including IBM, Bethlehem Steel, PPG Industries, Jones and Laughlin, McKinsey and Company, Timken, Westinghouse, and General Motors.

In 1976, he received the Western Electric Award for Innovative Teaching from the American Assembly of Collegiate Schools of Business. Dr. Thompson is author or co-author of some 150 articles and 13 books.

Program

Sunday, October 17, 1993

Banquet — Cocktails 6:00 p.m.
Holiday Inn University Center — Dinner 7:00 to 9:00 p.m.

WELCOME REMARKS:
Robert S. Sullivan, Carnegie Mellon University

CONGRATULATIONS BY FRIENDS OF GERALD L. THOMPSON

SPEAKER:
Gerald L. Thompson, Carnegie Mellon University

Monday, October 18, 1993

Shuttle Bus Departs Holiday Inn for GSIA — 7:15 a.m.

Registration — 7:30 to 8:15 a.m.
GSIA Room 145

Opening Plenary Session — 8:15 to 9:00 a.m.
GSIA Room 152

WELCOME REMARKS:
Robert S. Sullivan, Carnegie Mellon University

Concurrent Session I — 9:00 to 10:00 a.m.

A: GSIA Room 152

Stanley Zionts, State University of New York at Buffalo
Some Aspects of Linear Programming

William W. Cooper, The University of Texas at Austin
Primal and Dual Optimality in IDEAS (Integrated Data Envelopment Analysis Systems) and Related Computer Codes

B: GSIA Room 153

Farid Harche, New York University
Analysis of a Capacitated Parallel Multi-Processor Scheduling Problem

Joseph B. Mazzola and Robert H. Schantz, both Fuqua School of Business, Duke University
A Heuristic for Allocating Production of Product Families Among Facilities in the Presence of Nonlinear Capacity Interaction

Suresh P. Sethi and Qing Zhang, both University of Toronto
Asymptotic Optimality of Hierarchical Controls in Stochastic Manufacturing Systems: A Review

Break — 10:00 to 10:15 a.m.
GSIA Room 145

Concurrent Session II — 10:15 to 11:30 a.m.

A: GSIA Room 152

Jay E. Aronson and Moonsig Kang, both University of Georgia
A Pivot And Probe Algorithm (PAPA) for Network Optimization

George G. Polak, Wright State University
A Primal-Dual Algorithm for Multihour Multicommodity Network Synthesis

B: GSIA Room 153

Cheryl Gaimon, Georgia Institute of Technology
The Price-Production Problem: An Operations and Marketing Interface

James Teng, The William Paterson College of New Jersey, and Gerald L. Thompson, Carnegie Mellon University
Optimal Strategies for General Price-Quality Decision Models of New Products with Learning Production Costs

Luncheon — 11:30 a.m. to 1:00 p.m.
in honor of Dorothea Thompson
Rachel Mellon Walton Reception Room

Concurrent Session III 1:00 to 2:15 p.m.

A: GSIA Room 152

David F. Shanno, Rutgers, The State University of New Jersey
Computational Experience with Logarithmic Barrier Methods for Linear and Nonlinear Complementarity Problems

Theunis H.C. Smith and W. Loots, Rand Afrikaans University
Using Reduction in a Parallel Algorithm for the 0-1 Knapsack Problem
Author, Affiliation

B: GSIA Room 153

Andrew Whinston, The University of Texas at Austin
A Conceptual Framework for Applying Parallel Computing to Flexible Manufacturing Systems

Bharat K. Kaku, Arjang A. Assad and Chuan Wang, University of Maryland
Models for Tool Management in Flexible Manufacturing Systems

Break
GSIA Room 145 2:15 to 2:30 p.m.

Concurrent Session IV 2:30 to 3:30 p.m.

A: GSIA Room 152

Sten Thore, The University of Texas at Austin
Innovation in an Industry Network: Budding, Cross-Fertilization, and Creative Destruction

Timothy L. Shaftel, University of Kansas
Multi-Item, Multi-Product Second Bid Auctions

B: GSIA Room 153

Yuji Ijiri, Carnegie Mellon University
On the Generalized Inverse of Network Matrices and Its Applications to Accounting Networks

V. "Seenu" Srinivasan, Stanford University
A Strict Paired Comparison Linear Programming Approach to Nonmetric Conjoint Analysis

Registration Information and Conference Logistics

Registration

Conference registration and conference meals are free of charge to all attendees, but registration for the conference is required. Please return the enclosed reservation form indicating your attendance to: Amy Black, Graduate School of Industrial Administration, GSIA 213A, Carnegie Mellon University, Pittsburgh, PA 15213, or fax your registration to Amy Black at (412) 268-7824.

Registration deadline is Friday, October 8, 1993.

Special Accommodations

We will make every effort to accommodate special needs. Please indicate special needs on the registration form, or call Amy Black at (412) 268-2813.

Hotel Arrangements

A special $88 room rate has been established at The Holiday Inn-University Center for conference attendees. Please make your reservations directly with the hotel before Monday, October 4 and mention that you are part of the "Thompson Conference" to obtain this special conference rate. The Holiday Inn is within walking distance from campus.

The Holiday Inn-University Center
100 Lytton Avenue
Pittsburgh, PA 15213
(412) 682-6200

Parking

Conference parking will be available in the campus garage located on Forbes Avenue. Please indicate on the reservation form if you require parking. A parking pass will be mailed to you. Hotel parking is available at $9/day.

Questions???

For more information, call Amy Black at (412) 268-2813.