

## **Dr. Howard J. Weiss**

Temple University  
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### **Education**

Ph D, Northwestern University, 1975.  
Major: Industrial Engineering/Management Science  
Dissertation Title: Vehicle Management Systems for High Performance Personal Rapid Transit Systems

MS, Northwestern University, 1973.  
Major: Industrial Engineering/Management Science

BS, Washington University, 1972.  
Major: Applied Mathematics/Computer Science

### **Professional Positions**

#### **Academic**

Professor, Temple University. (1987 - Present).  
Associate Professor, Temple University. (1981 - 1987).  
Assistant Professor, Temple University. (1976 - 1981).  
Assistant Professor, Western Illinois University. (1975 - 1976).

#### **Professional**

Summer Faculty Research Program, Air Force Logistics Command. (1987).

## **TEACHING**

### **Teaching Experience**

#### **Temple University**

MSOM 3101, Operations Management, 6 courses.  
MSOM 5001, Operations Management, 5 courses.  
STAT 5802, Quantitative Analysis for Managers, 2 courses.  
STAT 802, Quantitative Methods for Business, 1 course.

### **Directed Student Learning**

Dissertation Defense Committee Chair.  
Advised: Darin Kaanjie

## **RESEARCH**

## Published Intellectual Contributions

### Books

- Weiss, H. J., Gershon, M. E. (1992). *Production and Operations Management, 2nd edition* (pp. 900). Needham Heights, MA:.
- Weiss, H. J., Gershon, M. E. (1989). *Production and Operations Management* (pp. 798). Needham Heights, MA:.
- Weiss, H. J. (1982). *Introduction to Mathematical Programming*. Elsevier-North Holland.

### Book Chapters

- Murphy, F., Toman, M., Weiss, H. (1987). In B. Lev, et al (Ed.), *Strategic Planning in Energy and Natural Resources: Games for Studying Strategic Petroleum Reserve Issues*.

### Refereed Journal Articles

- Weiss, H. (2013). Implementing Line Balancing Heuristics in Spreadsheets. *To appear in INFORMS Transactions on Education, 13(2)*, 114-125. [ite.informs.org](http://ite.informs.org)
- Mittal, N., Weiss, H. (2012). Active Excel Models to Teach Location and the Center-of-Gravity Method. *6(2012)*, 79-90.  
<http://www.neilsonjournals.com/OMER/abstractomer6mittalweiss.html>
- Nydick, R. L., Weiss, H. (2012). Let's Put the Seasonality and Trend in Decomposition. *INFORMS Transactions on Education, 12(3)*, 147-152. [ite.informs.org](http://ite.informs.org)
- Rasmussen, R. A., Weiss, H. J. (2007). Advanced Lessons on the Craft of Optimization Modeling Based on Modeling Sudoku in Excel. *INFORMS Transactions on Education, 7(3)*, 228-237. [archive.itejournal.informs.org/Vol7No3/RasmussenWeiss/](http://archive.itejournal.informs.org/Vol7No3/RasmussenWeiss/)
- Weiss, H. J., Rasmussen, R. A. (2007). Lessons from Modeling Sudoku in Excel. *INFORMS Transactions on Education, 7(2)*, 178-184.
- Nydick, R., Weiss, H. J. (1994). An Analytical Evaluation of Optimal Solution Value Estimation Procedures. *Naval Research Logistics, 41*, 189-202.
- Nydick, R., Weiss, H. J. (1992). A Modification to Groff's Variable Demand Lot Sizing Heuristic. *Opsearch, 29(1)*, 21-33.
- Weiss, H., Rosenthal, E. (1992). Optimal Ordering Policies when Anticipating a Disruption in Supply or Demand. *European Journal Of Operational Research, 59(3)*, 370-382.
- Murphy, F., Weiss, H. (1990). An Approach to Modeling Electric Utility Capacity Expansion Planning. *Naval Research Logistics, 37(6)*, 827-846.
- Nydick, R., Weiss, H. J. (1990). A Word of Caution About the Evaluation of Order Quantities Using the Rate of Return. *31(2)*.
- Lev, B., Weiss, H. J. (1990). Inventory Models with Cost Increases. *Operations Research, 38(1)*, 53-63.
- Murphy, F., Weiss, H., Toman, M. (1989). A Dynamic Nash Game Model of Oil Market Disruption and Strategic Stockpiling. *Operations Research, 37(6)*, 958-971.

- Nydick, R., Weiss, H. J. (1989). An Evaluation of Variable Demand Lot Sizing Heuristics. *Production and Inventory Management Journal*, 30(4), 41-44.
- Nydick, R., Weiss, H. J. (1989). More on Erkut's More on Morrison and Wheat's Pulling the Goalie revisited. *Interfaces*, 19(5), 45-48.
- Nydick, R., Weiss, H. J. (1988). An Evaluation of Optimal Solution Value Estimation Procedures. *Computers and Operations Research*, 15(5), 427-440.
- Weiss, H. J. (1988). Sensitivity of Continuous Review Stochastic (s,S) Inventory Systems to Ordering Delays. *European Journal Of Operational Research*, 36(2), 174-179.
- Weiss, H. J. (1987). A Non-recursive Algorithm for Classifying the States of a Finite Markov Chain. *European Journal Of Operational Research*, 28(1), 93-95.
- Murphy, F., Weiss, H., Toman, M. (1987). A Stochastic Dynamic Nash Game Analysis of Policies for Managing the Strategic Petroleum Reserves of Consuming Nations. *Management Science*, 33(4), 484-499.
- Weiss, H. J., Assous, Y. (1987). Reduction in Problem Size for Ranking Alternatives in Group Decision Making. *Computers and Operations Research*, 14(1), 55-65.
- Murphy, F., Toman, M., Weiss, H. (1986). An Integrated Analysis of U.S. Oil Security Policies. *Energy Journal*, 7(3), 67-82.
- Weiss, H. J. (1986). The Bias of Schedules and Playoff Systems in Professional Sports. *Management Science*, 32(6), 696-713.
- Weiss, H. J., Pliska, S. (1982). Optimal Policies for Batch Service Queueing Systems. *Opsearch*, 19(1), 12.
- Weiss, H. J. (1982). Economic Order Quantity Models with Non-Linear Holding Costs. *European Journal Of Operational Research*, 9(1), 56-60.
- Weiss, H. J. (1981). Further Results on an Infinite Capacity Shuttle with Control at a Single Terminal. *Operations Research*, 29(6).
- Weiss, H. J. (1981). A Greedy Heuristic for Single Machine Sequencing with Precedence Constraints. *Management Science*, 27(10), 1209-1216.
- Lev, B., Weiss, H., Soyster, A. (1981). Optimal Ordering Policies when Anticipating Parameter Changes in EOQ Systems. *Naval Research Logistics*, 28(2), 267-279.
- Weiss, H. J. (1981). Waiting Time Distribution in a Queue with a Bulk Service Rule. *Opsearch*, 19(1).
- Weiss, H. J. (1980). Optimal Ordering Policies for Continuous Review Perishable Inventory Models. *Operations Research*, 28(2), 365-374.
- Lev, B., Weiss, H. J., Soyster, A. (1979). Comment on an Improved Procedure for the Finite Horizon and Price Changes Inventory Model. *Operational Research Quarterly*, 30(9).
- Weiss, H. J. (1979). The Computation of Optimal Control Limits for a Queue with Batch Services. *Management Science*, 25(4), 320-328.

## Conference Proceedings

Weiss, H. J. (1987). *Games for Studying Strategic Petroleum Reserve Issues*.

Weiss, H. J. (1979). *Optimal Policies for Batch Service Queues with Nonlinear Waiting Costs*. Tenth Annual Pittsburgh Conference on Modeling and Simulation, Tenth Annual Pittsburgh Conference on Modeling and Simulation.

Weiss, H. J. (1978). *Using Optimal Stationary Policies for Non-Stationary Inventory Models*. Ninth Annual Pittsburgh Conference on Modeling and Simulation, Ninth Annual Pittsburgh Conference on Modeling and Simulation.

## Journal Articles

Murphy, F., Toman, M., Weiss, H. (1984). International Cooperation in Tariffs and Stockpiles for Coping with Oil Supply Disruptions. *Journal of Policy Modeling*, 7(4), 649-672.

## Other

Weiss, H. (2012). *Active Models, Version 2*. Pearson Prentice Hall.

Weiss, H., Software, K. (2012). *OM Explorer for Macs*.

Weiss, H., Software, K. (2012). *OM Explorer, Version 6*.

Weiss, H. (2011). *Excel OM/QM for Macs*.

Weiss, H. (2011). *QM for Windows, V4*.

Weiss, H. (2010). In Chuck Synovec (Ed.), *Excel OM, V4*. Upper Saddle River, NJ: Pearson Prentice Hall. [prenhall.com/weiss](http://prenhall.com/weiss)

Weiss, H. (2010). *POM for Windows, V4*. Upper Saddle River, NJ: Pearson Prentice Hall. [prenhall.com/weiss](http://prenhall.com/weiss)

Weiss, H. (2009). *Active Models*.

Weiss, H. (2009). *QM for Windows, Version 3.3*.

Weiss, H. (2009). *OM Explorer, Version 5*.

Weiss, H. (2009). *POM for Windows, Version 3.3*.

Weiss, H. (2008). *Excel OM, Version 3*.

Weiss, H. (2008). *Excel QM, Version 3*.

Weiss, H. (2008). *POM for Windows, Version 3* (pp. 213). Upper Saddle River, NJ 07548:.

Weiss, H. (2008). *QM for Windows, Version 3* (pp. 213). Upper Saddle River, NJ 07548:.

Weiss, H. J. (2006). *CompAnalysis*.

Weiss, H. (2006). *Excel OM, Version 2*.

Weiss, H. (2006). *Excel QM, Version 2*.

Weiss, H. (2006). *Excel Quality, Version 2*.

Weiss, H. (2006). *POM-QM for Windows, Version 3*. Upper Saddle River, NJ 07458:.  
[www.pearsonhighered.com/educator/academic/product/0,3110,0131735454,00.html](http://www.pearsonhighered.com/educator/academic/product/0,3110,0131735454,00.html)

Weiss, H. J. (2006). *POM-QM for Windows, Version 3* (pp. 213). Upper Saddle River, NJ 07548:.

Weiss, H. J. (2000). *DS for Windows, Version 2* (pp. 185). Upper Saddle River, NJ 07458:.

Weiss, H. J. (1998). *DS for Windows* (pp. 171). Upper Saddle River, NJ 07458:.

Weiss, H. J. (1996). *AB POM 4.0* (pp. 274). Englewood Cliffs, NJ 07632:.

Weiss, H. J. (1993). *AB POM Version 3.3* (pp. 310). Needham Heights, MA 02194:.

Weiss, H. J. (1990). *PC-POM: Software for Production and Operations Management* (pp. 237).  
Needham Heights, MA 02194:.

## Presentations Given

Render, B. (Presenter Only), Heizer, J. (Presenter Only), Munson, C. (Presenter Only), Klassen, K. (Presenter Only), Weiss, H. (Presenter Only), POMS, "Classroom Exercises that Teach and Excite," Production and Operations Management Society, Atlanta. (May 11, 2014).

Weiss, H. (Author Only), Myers, B. (Presenter & Author), Coughlin, B. (Author Only), Liberatore, M. (Author Only), Nydick, R. (Author Only), INFORMS Annual Meeting 2013, "Using Analytical Hierarchy Process (AHP) to Determine the Most Outstanding Sports Record," INFORMS, Minneapolis, Minnesota. (October 7, 2013).

Murphy, F., Weiss, H., ORSA/TIMS, "An Approach to Modeling Discrete Capacity Sizes in Electric Utility Planning." (October 1986).

Murphy, F., Toman, M., Weiss, H., ORSA/TIMS, "Modeling the US Strategic Petroleum Reserve as a Game." (October 1986).

Murphy, F., Toman, M., Weiss, H., ORSA/TIMS, "Managing the Strategic Petroleum Reserve Taking into International Inventory Adjustments." (October 1985).

Murphy, F., Toman, M., Weiss, H., ORSA/TIMS, "Strategic Oil Stockpiling and Public Private Inventory Interactions: A Dynamic Game Analysis." (September 1984).

Murphy, F., Bohl, A., Weiss, H., ORSA/TIMS, "A Mathematical Programming Model for Portfolio Management of Businesses." (April 1983).

## Contracts, Grants and Sponsored Research

### Other

Weiss, H. J., Murphy, F., Butz, B., "Programmed learning for MSOM 105," Sponsored by Temple University, \$7,500.00. (2001).

Weiss, H. J., "A Microcomputer Lateral Resupply Simulation System," Sponsored by Air Force Office of Scientific Research, \$20,000.00. (1988).

Weiss, H. J., Murphy, F. H., "A Data Base System for Spare Parts," Sponsored by Pennsylvania Department of Transportation, \$32,000.00. (1986).

Weiss, H. J., Murphy, F. H., "Improvements to IFFS," Sponsored by Brookhaven National Laboratory, \$40,000.00. (1984).

## **Intellectual Contributions in Submission**

### **Other**

Weiss, H. (2013). In Sally Yagan (Ed.), *CompAnalysis, Version 2*. Upper Saddle River, NJ: Pearson Education. [www.pearsonhighered.com/martocchio/](http://www.pearsonhighered.com/martocchio/)

## **Research in Progress**

"A Data Envelopment Analysis Approach for Ranking Journals" (On-Going)

## **SERVICE**

### **College Service**

Committee Member, Faculty Engagement Committee. (October 2009 - Present).

Program Coordinator, PMBA Academic Director. (September 1, 2007 - Present).

Committee Member, MBA Assurance of Learning. (2007 - Present).

Committee Member, Undergraduate Programs Committee. (January 1, 2004 - Present).

Academic Director, EMBA Academic Director. (September 1, 2000 - Present).

Committee Member, Masters Programs Committee. (July 1, 2000 - Present).

Committee Member, Computer and Information Technology Committee. (September 1, 1997 - Present).

Committee Member, Faculty Development Committee. (July 1, 2005 - June 30, 2011).

Committee Member, Executive Education Committee. (September 2009 - June 2010).

Committee Member, Executive Committee. (September 1, 2000 - June 2010).

Committee Member, Journal Vetting Committee. (April 2009 - December 2009).

Committee Member, Online MBA Creation Committee. (2008 - June 2009).

Other Institutional Service Activities, EMBA Academic Director. (2000 - 2005).

Committee Member, Merit Committee. (1999 - 2005).

Committee Member, Ad Hoc Teaching Load Committee. (2000).

Committee Member, Computer Committee. (1998).

Committee Member, Steering Committee. (1997).

Committee Member, Promotion and Tenure Committee. (1990 - 1995).

Committee Member, Steering Committee. (1993 - 1994).

Committee Member, Budget Committee. (1993).

Committee Member, PhD Committee. (1986 - 1988).

Committee Chair, Nominations and Election Committee. (1984 - 1986).

Committee Member, Steering Committee. (1983).

Committee Chair, Merit Committee. (1977 - 1978).

## **University Service**

Committee Member, 25 Year Faculty Club. (January 2008 - Present).

Faculty Mentor, Hillel of Temple University Faculty Advisor. (July 1, 2007 - Present).

Chairperson, 25 Year Faculty Club. (May 2009 - May 2011).

Committee Member, Hillel of Temple University General Board. (July 1, 2007 - June 30, 2008).

Committee Member, TU Portal 2 Committee. (September 1, 2005 - June 30, 2008).

Committee Member, Faculty Senate Task Force on Intellectual Property. (1998 - 1999).

Committee Member, Advisory Board, Ambler Computer Operations. (1996).

Committee Member, Committee on Academic and Trustee Appointments. (1987 - 1994).

Committee Member, CIS PhD Review Committee. (1984).

## **Professional Service**

Editor, Associate Editor, Computers and Operations Research. (1994 - 2004).

Editor, Associate Editor, Naval Research Logistics. (1994 - 2003).

Committee Member, The Institute of Management Sciences (TIMS). (1987 - 1995).

Editor, Associate Editor, Interfaces. (1988 - 1993).

Conference-Related, ORSA/TIMS National Meeting - Philadelphia. (1990).

Committee Member, The Operations Research Society of America. (1982 - 1985).

Committee Member, The Operations Research Society of America (ORSA). (1982 - 1983).

Philadelphia Chapter ORSA/TIMS. (1976 - 1980).

## **Public Service**

Committee Member, Hillels in Philadelphia, Philadelphia, Pennsylvania. (2001 - 2006).

## **Awards and Honors**

### **Service, University**

Musser Award, Fox School of Business. (2006).