

CANDACE ARAI YANO

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AREAS OF INTEREST:

Operations Management and Operations Management / Marketing Interface

EDUCATION:

6/81 Ph.D. (Industrial Engineering), Stanford University
1/80 M.S. (Industrial Engineering), Stanford University
4/79 M.S. (Operations Research), Stanford University
3/77 A.B. (Honors Economics), Stanford University
Also completed requirements for A.B. in Psychology

ACADEMIC EXPERIENCE:

University of California, Berkeley

7/01 - present Professor - Haas School of Business
7/93 - present Professor - Department of Industrial Engineering & Operations Research
1/03 – 6/03 Group Chair - Operations and Information Technology Management Group,
7/04 – present Haas School of Business
7/95 - 6/01 Chair - Department of Industrial Engineering & Operations Research

University of Michigan, Ann Arbor, MI

9/88 - 8/93 Associate Professor - Department of Industrial & Operations Engineering
1/83 - 8/88 Assistant Professor - Department of Industrial & Operations Engineering

Visiting Appointments

8/03 – 5/04 Visiting Susan B. Butler Chair of Operations Management, Krannert School
of Management, Purdue University
7/02; 4/05 Visiting Scholar – Department of Industrial Engineering and Engineering
Management, Hong Kong University of Science and Technology
6/02; 8/05 Visiting Scholar - Department of Systems Engineering and Engineering
Management, Chinese University of Hong Kong
3/02 Visiting Scholar – Department of Industrial Engineering, Middle East
Technical University, Ankara, Turkey
9/92 - 6/93 Visiting Associate Professor - Department of Industrial Engineering and
Engineering Management, Stanford University, Stanford, California
7/91 - 8/92 Visiting Associate Professor - Department of Industrial Engineering and
Operations Research, University of California, Berkeley, California
1/90 Visiting Scholar - Department of Industrial Engineering and Engineering
Management, Stanford University, Stanford, California
9/89 - 12/89 Visiting Associate Professor - School of Industrial & Systems Engineering,
Georgia Institute of Technology, Atlanta, Georgia

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INDUSTRIAL EXPERIENCE:

7/81 - 12/82 Member of the Technical Staff, Bell Telephone Laboratories, Holmdel, New Jersey

CONSULTING EXPERIENCE:

1984 Attache Software, Ann Arbor, Michigan. Inventory control and facility design.

1985 - 86 Quality Stores, North Muskegon, Michigan. Forecasting, inventory control, distribution systems planning, and vehicle routing.

1989 - 92 Ford Motor Company, Detroit, Michigan. Scheduling for a Die Construction Facility.

1992 - present Many small projects (primarily *gratis*) for both small and large for-profit firms and for non-profit and government organizations

I. REFEREED PUBLICATIONS

A. Archival Journals:

1. Yano, Candace Arai and Robert C. Carlson, "An Analysis of Scheduling Policies in Multiechelon Production Systems, *IIE Transactions* **17** (4), (1985), 370-377.
2. Yano, Candace Arai, "New Algorithms for (Q,r) Systems with Complete Backordering Using a Fill-Rate Criterion," *Naval Research Logistics Quarterly* **32** (4), (1985), 675-688.
3. Carlson, R. C. and Candace A. Yano, "Safety Stocks in MRP--Systems with Emergency Setups for Components," *Management Science* **32** (4), (1986), 403-412.
4. Bean, James C., Robert L. Smith and Candace A. Yano, "Forecast Horizons for the Discounted Dynamic Lot Size Problem Allowing Speculative Motive," *Naval Research Logistics* **34** (6), (1987), 761-774.
5. Yano, C. A. and R. C. Carlson, "Interaction Between Frequency of Rescheduling and the Role of Safety Stock in Material Requirements Planning Systems," *International Journal of Production Research* **25** (2), (1987), 221-232.
6. Yano, Candace Arai, "Planned Leadtimes for Serial Production Systems," *IIE Transactions* **19** (3), (1987), 300-307.
7. Yano, Candace Arai, "Setting Planned Leadtimes in Serial Production Systems with Tardiness Costs," *Management Science* **33** (1), (1987), 113-124.
8. Yano, Candace Arai, "Stochastic Leadtimes in Two-Level Assembly Systems," *IIE Transactions* **19** (4), (1987), 371-378.
9. Yano, Candace Arai, "Stochastic Leadtimes in Two-Level Distribution Systems," *Naval Research Logistics* **34** (6), (1987), 831-844.
10. Yano, Candace Arai, Thomas J. Chan, Lori Kaplan Richter, Theodore Cutler, Katta Murty and David McGettigan, "Vehicle Routing at Quality Stores," *Interfaces* **17** (2), (1987), 52-63.
11. Lee, Hau L. and Candace Arai Yano, "Production Control in Multi-Stage Systems with Variable Yield Losses," *Operations Research* **36** (2), (1988), 269-279.
12. Yano, Candace Arai and Robert C. Carlson, "Safety Stocks for Assembly Systems with Fixed Production Intervals," *Journal of Manufacturing and Operations Management* **1** (2), (1988), 182-201.
13. Bolat, Ahmet and Candace A. Yano, "Survey, Development, and Application of Algorithms for Sequencing Paced Assembly Lines," *Journal of Manufacturing and Operations Management* **2** (3), (1989), 172-198.
14. Yano, Candace Arai and Yigal Gerchak, "Transportation Contracts and Safety Stocks for Just-in-Time Deliveries," *Journal of Manufacturing and Operations Management* **2** (4), (1989), 314-330.

Archival Journals, cont.

15. Yano, Candace A., "The Product Cycling Problem with Uncertain Production Yields," *IEEE Journal of Robotics and Automation* **6** (6), (1990), 640-651.
16. Yano, Candace Arai and Yeong-Dae Kim, "Algorithms for a Class of Weighted Tardiness and Earliness Problems," *European Journal of Operational Research* **52** (2), (1991) 167-178.
17. Lee, Heungsoon Felix, Mandyam M. Srinivasan and Candace A. Yano, "Characteristics of Optimal Workload Allocation for Closed Queueing Networks," *Performance Evaluation*, **12**, (1991), 255-268.
18. Yano, C. A., H. F. Lee, and M. M Srinivasan, "Design and Scheduling of Flexible Assembly Systems for Large Products: A Simulation Study," *Journal of Manufacturing Systems* **10** (1), (1991), 54-66.
19. Lee, Heungsoon Felix, Mandyam M. Srinivasan and Candace A. Yano, "The Optimal Configuration and Workload Allocation Problem in Flexible Manufacturing Systems," *International Journal of Flexible Manufacturing Systems* **3** (3-4), (1991), 213-230.
20. Yano, Candace Arai and Ram Rachamadugu, "Sequencing to Minimize Work Overload in Assembly Lines with Product Options," *Management Science* **37** (5), (1991), 572-586.
21. Hahm, Juho and Candace Arai Yano, "The Economic Lot and Delivery Scheduling Problem: The Single Item Case," *International Journal of Production Economics* (formerly *Journal of Manufacturing and Operations Management*) **28**, (1992), 235-252.
22. Kim, Yeong-Dae and Candace Arai Yano, "An Iterative Approach to the System Startup Problem in Flexible Manufacturing Systems," *International Journal of Flexible Manufacturing Systems* **4**, (1992), 183-209.
23. Chan, Thomas Justin and Candace Arai Yano, "A Multiplier Adjustment Approach for the Set Partitioning Problem," *Operations Research* **40** (Supplement 1), (1992), S40-S47.
24. Yano, Candace Arai, "Optimizing Transportation Contracts to Support Just-in-Time Deliveries: The Case of One Contracted Vehicle per Shipment," *IIE Transactions* **24** (2), (1992), 177-183.
25. Bolat, Ahmet and Candace A. Yano, "Scheduling Algorithms to Minimize Utility Work at a Single Station on a Paced Assembly Line," *Production Planning and Control* **3** (4), (1992), 393-405.
26. Bolat, Ahmet and Candace A. Yano, "A Surrogate Objective for Utility Work in Paced Assembly Lines," *Production Planning and Control* **3** (4), (1992), 406-412.
27. Kim, Yeong-Dae and Candace Arai Yano, "A Heuristic Approach for Loading Problems of Flexible Manufacturing Systems," *IIE Transactions* **25** (1), (1993), 26-39.
28. Gerchak, Yigal, Yunzeng Wang and Candace A. Yano, "Lot Sizing in Assembly Systems with Random Component Yields," *IIE Transactions* **26** (2), (1994), 19-24.

Archival Journals, cont.

29. Ben-Khedher, Nejib and Candace Yano, "The Multi-Item Joint Replenishment Problem with Transportation and Container Effects," *Transportation Science* **28** (1), (1994), 37-54.
30. Rachamadugu, Ram M.V. and Candace A. Yano, "Analytical Tools for Assembly Line Design and Sequencing," *IIE Transactions* **26** (2), (1994), 2-11.
31. Kim, Y.-D. and C. A. Yano, "A Due Date-Based Approach to Part Type Selection in Flexible Manufacturing Systems," *International Journal of Production Research* **32** (5), (1994), 1027-1043.
32. Dobson, Gregory and Candace A. Yano, "Cyclic Scheduling to Minimize Inventory in Batch Flow Lines," *European Journal of Operational Research* **75**, (1994), 441-461.
33. Kim, Yeong-Dae and Candace A. Yano, "A New Branch and Bound Algorithm for Loading Problems in Flexible Manufacturing Systems," *International Journal of Flexible Manufacturing Systems* **6** (4), (1994), 361-382.
34. Kim, Yeong-Dae and Candace A. Yano, "Minimizing Mean Tardiness and Earliness in Single Machine Scheduling Problems with Unequal Due-Dates," *Naval Research Logistics* **41** (7), (1994), 913-933.
35. Bourland, Karla and Candace A. Yano, "The Strategic Use of Slack Capacity in the Economic Lot Scheduling Problem with Random Demand," *Management Science* **40** (12), (1994), 1690-1704.
36. Hahm, Juho and Candace A. Yano, "The Economic Lot and Delivery Scheduling Problem: The Common Cycle Case," *IIE Transactions* **27** (2), (1995), 113-125.
37. Hahm, Juho and Candace A. Yano, "The Economic Lot and Delivery Scheduling Problem: Models for Nested Schedules," *IIE Transactions* **27** (2), (1995), 126-139.
38. Yano, Candace A. and Hau L. Lee, "Lot Sizing with Random Yields: A Review," *Operations Research* **43** (2), (1995), 311-334.
39. Hahm, Juho and Candace A. Yano, "The Economic Lot and Delivery Scheduling Problem: Powers of Two Policies," *Transportation Science* **29** (3), (1995), 222-241.
40. Bourland, Karla and Candace Arai Yano, "Lot Sizing When Yields Increase During the Production Run," *Naval Research Logistics* **43** (8), (1996), 1035-1048.
41. Kamoun, Mahdi and Candace Arai Yano, "Facility Layout to Support Just-in-Time (with M. Kamoun)," *Transportation Science* **30** (4), (1996), 315-329.
42. Bourland, Karla and Candace A. Yano, "A Comparison of Solution Approaches for the Fixed-Sequence Economic Lot Scheduling Problem," *IIE Transactions* **29** (2), (1997), 103-108.
43. Bourland, Karla, Matthew J. Brown, and Candace A. Yano, "The Product Cycling Problem under Increasing Yield Rates," *IIE Transactions* **29** (5), (1997), 417-422.

Archival Journals, cont.

44. Kim, Yeong-Dae and Candace A. Yano, "Impact of Throughput-Based Objectives and Machine Grouping Decisions on the Short-Term Performance of Flexible Manufacturing Systems," *International Journal of Production Research* **35** (12), (1997), 3303-3322.
45. Yano, Candace Arai, Yavuz A. Bozer and Mahdi Kamoun, "Optimizing Dock Configuration and Staffing in Decentralized Receiving," *IIE Transactions* **30** (7), (1998), 657-668.
46. Blanchard-Gaillard, Denis, Candace A. Yano, Janny M.Y. Leung and Matthew J. Brown (1999), "Discrete Deterministic and Stochastic Blending Problems with Two Quality Characteristics: Aluminum Blending," *IIE Transactions* **31** (10), (1999), 1001-1009.
47. Newman, Alexandra and Candace Arai Yano, "Centralized and Decentralized Train Scheduling for Intermodal Operations," *IIE Transactions* **32** (8), (2000), 743-754.
48. Song, Jing-Sheng, Candace Arai Yano, and Panupol Lerssrisuriya, "Contract Assembly: Dealing with Combined Supply Lead Time and Demand Quantity Uncertainty," *Journal of Manufacturing and Service Operations Management* **2** (3), (2000), 287-296.
49. Newman, Alexandra and Candace Arai Yano, "Scheduling Direct and Indirect Trains and Containers in an Intermodal Setting," *Transportation Science* **34** (3), (2000), 256-270.
50. Matanachai, Sittichai and Candace Arai Yano, "Balancing Mixed-Model Assembly Lines to Reduce Work Overload," *IIE Transactions* **33** (1), (2001), 29-42.
51. Yano, Candace Arai and Alexandra M. Newman, "Scheduling Trains and Containers with Due Dates and Dynamic Arrivals," *Transportation Science* **35** (2), (2001), 181-191.
52. Dobson, Gregory and Candace A. Yano, "Product Offering, Pricing and Make-to-Stock/Make-to-Order Decisions with Shared Capacity," *Production and Operations Management* **11**(4), (2002), 293-312 (Special Issue on Customer Satisfaction Through Design, Manufacturing and Supply Networks).
53. Kraus, Ursula and Candace A. Yano, "Product Line Selection and Pricing under a Share-of-Surplus Choice Model," *European Journal of Operational Research* **150** (3), (2003), 653-671.
54. Chopra, Sunil, William Lovejoy and Candace Yano, "Five Decades of Operations Management and the Prospects Ahead," *Management Science* **50** (1), (2004), 8-14. (Invited; lightly reviewed.)
55. Bennett, Derek and Candace Arai Yano, "A Decomposition Approach for a Multi-Product Process Selection and Product Routing Problem Incorporating Environmental Factors," *European Journal of Operational Research* **156** (3), (2004), 643-664
56. Bulbul, Kerem, Philip M. Kaminsky and Candace A. Yano, "Flow Shop Scheduling with Earliness, Tardiness and Intermediate Inventory Holding Costs," *Naval Research Logistics* **51** (3), (2004), 407-445.

Archival Journals, cont.

57. Chao, John, Matty Chen, Aileen Deng, Harold Miao, Alexandra Newman, Sophia Tseng and Candace Arai Yano, "Safeway Designs Mixed-Product Pallets to Support Just-in-Time Deliveries." *Interfaces* **35** (4), (2005), 294-307.
58. Durango-Cohen, Elizabeth and Candace Arai Yano, "Supplier Commitment and Production Decisions Under a Forecast-Commitment Contract." *Management Science* **52**(1), (2006), 54-67.
59. Deng, Shiming and Candace Arai Yano, "Joint Production and Pricing Decisions with Setup Costs and Capacity Constraints." *Management Science* **52** (5), (2006), 741-756.
60. Lee, Heungsoon F., M. M. Srinivasan and Candace A. Yano, "A Framework for Capacity Planning and Machine Configuration in Flexible Assembly Systems." *International Journal of Flexible Manufacturing Systems* **18** (4), (2006) 239-268.
61. Yano, Candace Arai and Alexandra Newman, "Pareto-Improving Contract for Express Delivery Services." *Production and Operations Management* (Special Issue Honoring Martin Starr). **16**(1), (2007), 109-124.
62. Bulbul, Kerem, Philip M. Kaminsky and Candace A. Yano, "Preemption in Single Machine Earliness/Tardiness Scheduling." *Journal of Scheduling***10** (4-5), (2007), 271-292.
63. Dror, M., .K. Smith and C.A. Yano, "Deux Chemicals, Inc. Goes Just-in-Time." To appear in *Interfaces*. Published online August 27, 2009. Available at: <http://interfaces.journal.informs.org/cgi/reprint/inte.1090.0456v1>.

B. Conference Proceedings (refereed; partial list):

1. Yano, Candace A., "Optimal Routing of Vehicles for Deliveries and Backhauls Using a Personal Computer," *Journal of Transportation Management 1986 Proceedings*, 1986)
2. Lee, H. F., M. M Srinivasan and Candace A. Yano, "An Algorithm for the Minimum Cost Configuration Problem in Flexible Manufacturing Systems," *Proceedings of the 1989 Flexible Manufacturing Systems Conference*, 1989.
3. Erkip, Nesim and Candace A. Yano, "When Should We Dispatch Trucks with Unreliable Transit Times," *Proceedings of the 1996 Manufacturing and Service Operations Management Conference*, June 1996.
4. Bennett, Derek and Candace Arai Yano, " A Multiobjective Multi-Product Equipment Selection and Product Routing Problem in Environmentally Conscious Manufacturing," *Proceedings of the 1998 Industrial Engineering Research Conference*, Banff, Alberta, Canada, May 1998.
5. Kraus, Ursula and Candace Arai Yano, "Product Line and Process Design for Mass Customization," *Proceedings of the 1998 Manufacturing and Service Operations Management Conference*, Seattle, Washington, June 1998.

Candace Arai Yano, page 8.

Conference Proceedings (refereed), cont.:

6. Newman, Alexandra M. and Candace Arai Yano, "Optimizing Intermodal Rail Operations," *Proceedings of the 1998 Manufacturing and Service Operations Management Conference*, Seattle, Washington, June 1998.
7. Yano, Candace Arai and Gregory Dobson. "Product Line Selection and Pricing with Shared Resources: A Framework for Evaluating the Benefits of Product Platforms, Postponement, Modular Design and Common Components." *Proceedings of the Manufacturing and Service Operations Management Conference*, Ann Arbor, Michigan, (2000).
8. Deng, Shiming and Candace A. Yano, "Combining Spot Purchases with Contracts in a Two-Echelon Supply Chain," *Proceedings of the 2002 Manufacturing and Service Operations Management Conference*, Cornell University, Ithaca, NY, June 2002.
9. Yano, Candace A. and Alexandra M. Newman, "Day-of-Week Pricing for Express Delivery Services," *Proceedings of the 2002 Manufacturing and Service Operations Management Conference*, Cornell University, Ithaca, NY, June 2002.
10. Yano, Candace Arai, "Pricing in a Two-Supplier, One-Retailer Supply Chain with Capacity Constraints and Information Asymmetry," *Proceedings of the 2005 Manufacturing and Service Operations Management Conference*, Northwestern University, Evanston, IL, June 2005.
11. Durango-Cohen, Elizabeth and Candace Arai Yano, "Channel Pricing Implications for a Supply Chain with Competing Store and National Brands," *Proceedings of the 2006 Manufacturing and Service Operations Management Conference*, Georgia Institute of Technology, Atlanta, GA, June 2006.
12. Durango-Cohen, Elizabeth J. and Candace A. Yano, "Optimizing the Customer's Forecast in a Forecast-Commitment Contract," *Proceedings of the 2007 Manufacturing and Service Operations Management Conference*, Tsinghua University, Beijing, China, June 2007.
13. Durango-Cohen, Elizabeth J. and Candace A. Yano, "Forecast Commitment Contracts with Strategic Customers," *Proceedings of the 2009 Manufacturing and Service Operations Management Conference*, Massachusetts Institute of Technology, Cambridge, MA, June 2009.

C. Book Chapters (refereed):

1. Yano, Candace Arai and Gregory Dobson, "Profit Optimizing Product Line Design, Selection and Pricing with Manufacturing Cost Considerations: A Survey," in Product Variety Management: Research Advances (T.-H. Ho and C.S. Tang, eds.), Kluwer Academic Publisher, November 1998, 145-176.
2. Yano, Candace Arai and Greg Dobson, "Designing Product Lines for Diverse Customer Markets," in Global Supply Chain and Technology Management (Hau L. Lee and Shu-Ming Ng, eds.), POMS Series in Technology and Operations Management, Vol. 1 (1998).
3. Newman, Alexandra M., Linda K. Nozick and Candace Arai Yano, "Optimization in the Rail Industry," in Handbook of Optimization, Panos M. Pardalos and Mauricio G. C. Resende (Eds.), Oxford University Press, New York, 2002.
4. Yano, Candace A. and Stephen M. Gilbert, "Coordinated Pricing and Production/Procurement Decisions: A Review," in Managing Business Interfaces: Marketing, Engineering and Manufacturing Perspectives, Amiya Chakravarty and Jehoshua Eliashberg (Eds.), Kluwer Academic Publishers, 2003.
5. Newman, Alexandra, Candace A. Yano and Phil Kaminsky, "Third Party Logistics Planning with Routing and Inventory Costs," in Supply Chain Optimization (J. Geunes and P. Pardalos, eds.), Kluwer Academic Publishers, 2005.

II. NON-REFEREED PUBLICATIONS

A. Papers in Review or Revision:

1. Yan, Houmin, Candace Arai Yano and Hanqin Zhang, "Multi-Period Inventory Models with Target-Profit Constraints under Accrual- and Cash-Basis Accounting." Undergoing second revision for *Management Science*.
2. Chen, Frank Y. and Candace A. Yano, "Managing Weather-Related Demand Uncertainty with Weather Rebates. Undergoing second (minor) revision for *Management Science*.
3. Yano, Candace A. and Elizabeth J. Durango-Cohen, "Outsourcing in Place: Should a Retailer Sell its Store-Brand Factory?" Undergoing revision for *Management Science*.
4. Qi, Huanhuan and Candace Arai Yano, "Manufacturer Pricing Policies to Tame the Bullwhip." Undergoing revision for *Management Science*.
- 5.. Durango-Cohen, Elizabeth and Candace Arai Yano, "Optimizing Customer Forecasts for Forecast-Commitment Contracts." Revision under review at *Production and Operations Management*.
6. Yano, Candace Arai, Z.-J. Max Shen and Stephen Chan, "Optimizing the Number of Copies for Print Preservation of Research Journals." Submitted to *Interfaces*.

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Papers in Review or Revision, cont.

7. Newman, Alexandra M., Candace A. Yano and Enrique Rubio, "Mining Above and Below Ground: Timing the Transition." Submitted to *IIE Transactions*.
8. Deng, Shiming and Candace Arai Yano, "Supply Contracts for Risk-Constrained Buyers and Sellers." Undergoing revision for *Manufacturing and Service Operations Management*.
9. Singh, Medini R., Jing-Sheng Song, Candace Arai Yano and Augusto Moreno-Beltran, "Production and Repair Decisions with Time-Consuming Repair and a Deadline." Undergoing revision.

B. Conference Proceedings:

1. Yano, Candace, A. "Production Control in Manufacturing Systems with Variable Yield Losses," *Proceedings of the National Science Foundation's 13th Conference on Production Research and Technology*, (1986).
2. Yano, Candace, A. "Scheduling Production for Products with Yield Losses: Situations with Rework or Multiple Products Sharing Capacity," *Proceedings of the National Science Foundation's 14th Conference on Production Research and Technology*, (1987).

C. Technical Reports:

1. Chan, Thomas J. and Candace A. Yano, "Production and Procurement Policies for an Assembly System with Random-Yield Components," Technical Report 86-6, Department of Industrial & Operations Engineering, University of Michigan.
2. Alden, J. and Candace A. Yano, "A Forward Dynamic Programming Procedure for General Uncapacitated Multi-Stage Lot Size Problems," Technical Report 86-11, Department of Industrial & Operations Engineering, University of Michigan.
3. Yano, Candace, A., "Optimal Policies for a Serial Production System with Setup Costs and Variable Yields," Technical Report 86-24, Department of Industrial & Operations Engineering, University of Michigan.
4. Abraham, C., B. Dietrich, S. Graves, W. Maxwell and Candace A. Yano, "A Research Agenda for Models to Plan and Schedule Manufacturing Systems," Technical Report 85-33, Department of Industrial & Operations Engineering, University of Michigan.
5. Yano, Candace A., "Impact of Quality and Pricing on the Market Shares of Two Competing Suppliers in a Simple Procurement Model," working paper.
6. Ben-Khedher, Nejib and Candace A. Yano, "The Multi-Item Joint-Replenishment Problem with Volume-Sensitive Transportation Costs," working paper.
7. Ben-Khedher, Nejib and Candace A. Yano, "The Multi-Supplier Delivery Scheduling Problem," working paper.
8. Dobson, Greg and Candace Arai Yano, "Report on the Computational Results from "Product Line and Technology Selection With Shared Manufacturing and Engineering Design Resources" (supplement to II.A.9).
9. Bourland, Karla and Candace A. Yano, "Linear Loss Functions Where the Exposure Period is a Decision Variable: Structural Properties and Applications," working paper.
10. Yano, Candace A., "Optimal Finite and Infinite Horizon Policies for Single-Stage Production Systems with Random Yields," working paper.
11. Yano, Candace A., "Input Control for Systems with Random Yields and Lead Times," working paper.
12. Yano, Candace A., Matthew J. Brown, Marilyn J. Maddox and Cynthia Barnhart, "Scheduling Multiple Projects with Due Dates in a Job Shop," working paper.
13. Newman, Alexandra and Candace Arai Yano, "Optimal Control of a Piecewise Linear Trend Process with Quadratic Loss," working paper.
14. Yano, Candace A. and Chen Zhou, "Optimal Ready Times for Jobs with Stochastic Processing Times," working paper.
15. Dobson, Gregory and Candace Arai Yano, "Product Line and Technology Selection with Shared Manufacturing and Engineering Design Resources."

Technical reports, cont.

16. Lerssr Suriya, Panupol and Candace Arai Yano, "Pricing and Production Planning to Accommodate Product Variety and Demand Uncertainty."
17. Lerssr Suriya, Panupol and Candace Arai Yano, "Pricing and Production Planning for Make-to-Order Products with Lead-Time-Sensitive Random Demands."
18. Geralde, Toni, Nicholas Gomez, Mona Gohil, Lily Suriya, Patrick Tam and Candace Arai Yano, "Optimizing Electricity Procurement for the City of Palo Alto."
19. Yano, Candace Arai and Alexandra Newman, "Technical Note: Conditions for Optimality of an "As-Late-As-Possible" Vehicle Schedule in the Multi-Item Shipment Problem with Due Dates and Dynamic Arrivals."
20. Yano, Candace Arai. "Impact of Capacity Constraints on Prices and Profits in a Two-Supplier, One-Retailer Supply Chain. (A portion of this has been incorporated into a different paper.)"
21. Durango-Cohen, Elizabeth and Candace Arai Yano, "Impact of Capacity on Pricing Decisions in Supply Chains with Competing Store and National Brands." (A portion of this has been incorporated into a different paper.)
22. Kraus, Ursula and Candace Arai Yano, "Comparison of Product Line Design Solutions under the Share of Surplus and Max-Surplus Choice Rules." (Revision pending.)
23. Kraus, Ursula and Candace A. Yano, "Strategic Stockouts in the Presence of Customer Substitution." (Revision pending.)

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RESEARCH GIFTS, GRANTS AND CONTRACTS:

Optimizing Print Backups of Archival Journals, Ithaka Research, \$118,150 for 8/07 – 8/08.

Decision Models for Buyers of Third-Party Manufacturing Services, Korean Institute of Industrial Technology, \$50,000 for 3/03 – 12/03.

Synthetic Data Generation for Risk Analysis, Fair Isaac and Company. \$10,000 for 10/02 -

Decision and Risk Analysis. Fair, Isaac and Company. \$40,000 for 9/00 – (joint with P. Kaminsky).

Modeling Cycle Time and Throughput for the JGI Genome Sequencing Processes. Lawrence Berkeley National Laboratory, Joint Genome Institute, approximately \$70,000 annually for 1/98-10/00 (direct funding).

Methodologies for Environmental-based Planning in Machining Operations (Principal Investigator P.Sheng; other co-PIs: D. Dornfeld, V. Carey, C. Koshland). National Science Foundation (DMI-95-24972). \$508,724 for 1/96 – 12/00.

Operations Research Center of Excellence, Federal Aviation Administration and industrial sponsors, approximately \$1,000,000 annually for 1996- (approximately 30 investigators at 4 universities).

Coordination Issues in Manufacturing Design and Control. National Science Foundation Faculty Awards for Women Scientists and Engineers Grant (GER/HRD-9396288). \$250,000 for 11/91-10/97.

Models for Response Time Estimation in Municipal Public Safety Departments. City of Lafayette, CA. \$4,000 for 3/96-12/96.

Coordination of Vertically-Integrated Multi-Plant Companies. National Science Foundation Visiting Professorships for Women Grant.(HRD-9103229) \$137,064 for 7/91 - 6/92.

Models to Analyze the Impact of Product Diversity. Sigma Associates. \$53,505 for 9/90 - 4/92.

Scheduling and Inventory Control. Ford Motor Company. \$120,000 for 1/89 - 1/92.

Economic Lot Sizing in Just-in-Time Production Systems. Chrysler Corporation. \$152,000 for 1/88 - 6/89.

Workforce Optimization for Assembly Lines with Product Options. Chrysler Corporation. \$72,000 for 1/88 - 6/89.

Sequencing, Scheduling, and Parts Deliveries: Impact on System Design. Chrysler Corporation. \$123,000 for 9/86 - 8/87.

Strategies for Dealing with Demand and Yield Uncertainty in Multi-stage Production Systems." National Science Foundation Research Initiation Grant (DMC-8504644). \$60,000 for 7/85 - 12/87.

Leadtime Uncertainty in Multi-Echelon Production Systems. National Science Foundation New Engineering Faculty Research Incentive Grant (ECS-8206499). \$10,000 for 5/83 - 4/85.

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DOCTORAL STUDENTS:

Meyer Kotkin: Operating Policies for Non-Stationary Two-Echelon Inventory Systems for Repairable Items (1986).

Thomas J. Chan: A Multiplier-Adjustment-Based Branch-and-Bound Algorithm for Solving the Set Partitioning Problem (1987).

Ahmet Bolat: Generalized Mixed-Model Assembly Line Sequencing Problem (1988).

Lori Kaplan: Resource-Constrained Project Scheduling with Job Preemption (1988).

Yeong-Dae Kim: An Iterative Approach for System Setup Problems of Flexible Manufacturing Systems (1988).

Heungsoon Lee: Capacity Planning for Flexible Manufacturing Systems (1989). Co-chair with M.M. Srinivasan.

Nejib Ben-Khedher (aka Ben-Khedher): Economic Lot Sizing for Multi-Supplier, Multi-Item Procurement Systems (1990).

Juho Hahm: The Economic Lot and Delivery Scheduling Problem (1990).

Karla Bourland: Production Planning and Control for the Stochastic Economic Lot Scheduling Problem (1991).

Mahdi Kamoun: Models and Algorithms for the Facility Layout Problem with Emphasis on Supporting Just-in-Time (1996).

Sittichai Matanachai: Balancing Objectives for Mixed-Model, Paced Assembly Lines (1996).

Derek Bennett: A Process Selection Optimization Model and Systems Planning Methodology for Environmentally Conscious Manufacturing (1998).

Alexandra Newman: Optimizing Intermodal Rail Operations (1998).

Panupol Lerssrisuriya: Production Planning and Pricing with Shared Capacity, Demand Uncertainty, and Lead-Time-Sensitive Customers (1998).

Ursula Kraus: The Effect of Buyer Choice Rules on Product Line Design and Pricing (1999).

Jennifer Goodhart: Increasing Airline Operational Control in a Constrained Air Traffic System (2000).

Elizabeth Junqueira (Durango-Cohen): Customer Forecasts and Supplier Commitment and Production Decisions in Supply Contract Relationships (2002). Co-chair with J. George Shanthikumar.

Kerem Bulbul: Just-in-Time Scheduling with Inventory Holding Costs (2002). Co-chair with Phil Kaminsky.

Shiming Deng: Production, Pricing and Contract Management in Supply Chains (2003).

Huan Huan Qi: completion expected in 2010.

Candace Arai Yano, page 15.

UNIVERSITY SERVICE:

University of Michigan:

University Faculty Senate Assembly, 1988-1991.

University Financial Affairs Committee, 1988-1991.

College of Engineering outreach programs for underrepresented junior and senior high students.

University of California, Berkeley:

Executive Budget Steering Committee Working Group on Human Resources Initiatives, 2003.

Academic Senate Committee on Academic Planning and Resource Allocation (CAPRA), 2001, 2005-2007.

Academic Senate Ad Hoc Committee to Review Clustering in the Humanities, 2001- 2004.

Institute of Transportation Studies Advisory Committee, 1999-2003.

NEXTOR (National Center of Excellence for Aviation Oper. Res.) Advisory Committee, 1999-2002.

Co-Director, Certificate Program in Logistics (joint program between IEOR and CEE), 1996-

Management of Technology Advisory Committee, 1996-2003.

College of Engineering Infrastructure Planning Committee, 2000-2003.

College of Engineering Affirmative Action Committee, 1994-2003.

College of Engineering Strategic Planning Committee, 1995-96.

Business and Engineering Deans' Advisory Committee (for joint programs), 1993-95.

Advisory Committee for the Institute of Industrial Relations, 1994-1997.

College of Engineering Cooperative Education Committee, 1994-1997.

DEPARTMENT SERVICE:

University of Michigan:

IOE Department Executive Committee, 1983-84, 1988-89.

IOE Graduate Program Committee 1983-1986.

IOE Graduate Admissions and Financial Aid Committee, 1986-1991; Chair, 1990-91.

IOE Curriculum Committee, 1987-88.

IOE Assistant Undergraduate Program Advisor, 1987-88.

Candace Arai Yano, page 16.

DEPARTMENT SERVICE, cont.:

University of Michigan:

IOE Departmental Coordinator for 1987 ABET (reaccreditation) Review.

Graduate Advisor for IOE Manufacturing Systems Option, 1989-93.

Coordinator for Operations Planning and Analysis Laboratory, 1986.

Coordinator for Manufacturing Systems Laboratory, 1990-91.

Chair, Manufacturing Faculty Search Committee, 1988-89 and 1990-91.

Faculty Advisor for Student Chapter of the Institute of Industrial Engineers, 1983-86;
Student Chapter of the Operations Research Society of America, 1986-87; Student
Chapter of Alpha Pi Mu (Industrial Engineering Honorary), 1990-91.

University of California, Berkeley:

Department Chair (IEOR), 1995-2001.

Group Chair (Operations & Information Technology Group, Haas), Spring 2003 and July 2004-

Haas School of Business Executive Committee, 2002-3, 2004-

College of Engineering Dean Search Committee, 2007.

Ad Hoc Committee to Revise (IEOR) Graduate Curriculum, 1995-96.

Ad Hoc Committee to Revise (IEOR) Undergraduate Curriculum, 1993-94.

Chair, IEOR Graduate Admissions and Financial Aid Committee, 1994-95.

IEOR Faculty Search Committee, 1994-95, 1995-96, 1996-97, 1997-98.

Haas School of Business Hiring Committee, 2002-3, 2004-

Haas Operations & Information Technology Group Hiring Committee Chair, 2001-2, 2002-3, 2003-.

IEOR Department Coordinator for (ABET) Accreditation Review, 1994 and 2000.

Academic Advisor for approximately half of the first-year graduate students, 1994-2002.

Academic Advisor for undergraduates in Manufacturing Engineering program, 1997-2002.

Faculty Advisor for the Student Chapter of the Institute of Industrial Engineers, 1993 -

Faculty Advisor for the Student Chapter of Alpha Pi Mu (Ind. Eng. Honor Society), 1994-2003.

Candace Arai Yano, page 17.

DEPARTMENT SERVICE, cont.:

IEOR Equity (previously called Affirmative Action) Advisor, 1994 –

IEOR Undergraduate Admissions Committee, 2004-09.

Haas Operations Management Field Advisor, 2008-

Haas Operations Management Ph.D. Committee, 2008-

PROFESSIONAL ACTIVITIES

Deputy Editor (Co-Acting Editor), *Manufacturing and Service Operations Management*, 2002.
Senior Editor, *Manufacturing and Service Operations Management*, 1996 –2005.

Editor-in-Chief, *IIE Transactions*, 2005-2009.

Editor, *IIE Transactions on Scheduling and Logistics*, 2001-

Department Editor (Feature Applications), *IIE Transactions*, 1993-2000.

Department Editor (Scheduling, Planning and Control), *IIE Transactions*, 1989-1993.

Guest Editor, *IIE Transactions* Special Issue on Supply Chains with Outsourcing (published 8/02)

Associate Editor, *IIE Transactions*, 1986-1989.

Department Editor (Operations and Supply Chains), *Management Science*, 2003- 2008.

Department Editor (Inventory), *Interfaces*, 1988-2004.

Associate Editor, *Production and Operations Management*, 2008-

Associate Editor, *Operations Research*, 1995-2000.

Associate Editor, *Naval Research Logistics*, 1989-2003.

Associate Editor, *Journal of Manufacturing and Operations Management*, 1986-1992.

Associate Editor, *International Journal of Production Economics*, 1992-

Associate Editor, *Technology and Operations Review*, 1994-2000.

Editorial Board, *Foundations and Trends in Technology, Information and Operations Management*, 2004-

Operations Research Society of America (ORSA).

Member 1980-present.

ORSA Council, 1994-96.

Membership Committee 1981-83.

Nominating Committee, 1997.

Nicholson Prize Committee (student paper competition), 1993.

ORSA/TIMS Dissertation Prize Committee, 1994.

Conference Co-Chair and Program Chair for 1994 Conference of Technical Section on
Manufacturing Management.

Organizing Committee, Manufacturing and Service Operations Management Conference, 1996.

Chair, Technical Section on Manufacturing Management, 1994-95.

Vice-Chair, Technical Section on Manufacturing Management, 1993-94.

Ad Hoc Committee on Women in OR, 1993-94.

Candace Arai Yano, page 18.

PROFESSIONAL ACTIVITIES, cont.

The Institute of Management Sciences (TIMS), Member 1980-

Institute for Operations Research and the Management Sciences (merger of ORSA and TIMS)
Member, 1995 -

Vice President of Marketing and Outreach, 2006-2007.

Director at Large, 1995.

Program Chair for Fall 2002 National Conference in San José, California.

Chair, Review Committee for *Management Science* Journal, 1999.

Job Placement Committee Chair or Co-Chair, 1995-2004.

Co-Founder of the Women in OR/MS Forum, 1995.

Executive Vice President / President-Elect, 1997-98 and President, 1998-99.

Subdivision Committee, Subcommittee on Chapters, 1997-99.

Subdivisions Council, 2003.

Student Affairs Committee, 1997-2004.

Institute of Industrial Engineers (IIE), Member 1983-

Advisory Committee to the National Science Foundation, Division of Design and Manufacturing Systems (OR/Production Systems), 1992-93.

Member of task force to develop a Research Agenda for Production Planning and Scheduling (commissioned by the National Science Foundation), 1984-85.

External Advisory Committee, Department of Industrial and Manufacturing Engineering, Cal Poly, San Luis Obispo (Calif.), 1994-96.

Chair, External Review Committee, Graduate Program in Industrial Engineering, University of Minnesota, 2002.

External Review Committee, Graduate Program in Industrial Engineering, University of Washington, 2003.

Over 200 presentations at various professional conferences, universities, and major companies.

Frequent and regular organizer of sessions for TIMS/ORSA/INFORMS conferences.

Organizer/Host of the 1988 (Ann Arbor) and 2001 (Berkeley) Multiechelon Inventory Systems Conferences.

Reviewer for *Management Science*, *Operations Research*, *IIE Transactions*, *Journal of Manufacturing and Operations Management*, *Naval Research Logistics*, *European Journal of Operational Research*, *Journal of Operations Management*, *International Journal of Production Research*, *International Journal of Flexible Manufacturing Systems*, *Annals of Operations Research*, *IEEE Expert*, *IEEE Transactions on Robotics and Automation*, *INFOR* (Canadian Operations Research Journal), *Computers and Industrial Engineering*, *IEEE Transactions on Semiconductor Manufacturing*, University of California Transportation Center Grants, Natural Sciences and Engineering Research Council of Canada, Hong Kong Research Grants Council, National Science Foundation, Department of Energy Manufacturing Fellowships Program.

Candace Arai Yano, page 19.

HONORS AND AWARDS:

Phi Beta Kappa, 1977.

California State Fellowship, 1977-78.

American Production and Inventory Control Society Scholarship, 1980.

Outstanding Graduate Student (Industrial Engineering, Stanford University), 1981.

Tau Beta Pi Faculty Service Award (University of Michigan), 1985.

Distinguished Service Award, INFORMS Section on Manufacturing & Service Operations Management, 1997.

Chancellor's Professorship, University of California Berkeley, 1997-2000.

Alpha Pi Mu (IE Honorary Society) Faculty of the Year Award, University of California Berkeley, 1999.

Fellow, Institute of Industrial Engineers, 2006.

IEOR Professor of the Year Award (teaching excellence award), University of California, Berkeley, 2008.

Award for Advancement of Women in OR/MS (Women in OR/MS Forum of INFORMS), 2008.

August 27, 2009