

L. BERIL TOKTAY
Professor of Operations Management and Brady Family Chair
Scheller College of Business
Georgia Institute of Technology

I. EARNED DEGREES

- June 1998 **Massachusetts Institute of Technology**, Cambridge, MA
PhD in Operations Research
Thesis: Analysis of a Production-Inventory System under a Stationary Demand Process and Forecast Updates
- June 1994 **Purdue University**, West Lafayette, IN
MS in Industrial Engineering
Thesis: Capacity Allocation with Integer Side Constraints: An Application to Semiconductor Manufacturing
- July 1992 **Bogaziçi University**, Istanbul, Turkey
BS in Industrial Engineering
- July 1992 **Bogaziçi University**, Istanbul, Turkey
BS in Mathematics

II. EMPLOYMENT

- 8/12 – present **Georgia Institute of Technology**, Atlanta, GA
Professor of Operations Management and Brady Family Chair
Scheller College of Business ADVANCE Professor
Faculty Director,
 Ray C. Anderson Center for Sustainable Business (1/15 – present)
 Center for Business Strategies for Sustainability (2/13 – 1/15)
Executive Co-Director, Center for Serve-Learn-Sustain (1/14 – present)
Distinguished Fellow, INFORMS MSOM Society, inducted in 2017
- 8/14 – 7/15 **Harvard Business School**, Boston, MA
Visiting Scholar, TOM Group and Business and Environment Initiative
- 8/11 – 8/12 **Georgia Institute of Technology**, Atlanta, GA
Nancy J. and Lawrence P. Huang Professor of Operations Management
- 8/07 – 8/11 **Georgia Institute of Technology**, Atlanta, GA
Nancy J. and Lawrence P. Huang Associate Professor of Operations Management
- 8/05 – 8/07 **Georgia Institute of Technology**, Atlanta, GA
Associate Professor, College of Management
- 03/04 – 12/04 **Georgia Institute of Technology**, Atlanta, GA
Visiting Associate Professor, Industrial and Systems Engineering (sabbatical leave)
- 9/02 – 8/05 **INSEAD**, Fontainebleau, France
Associate Professor, Technology and Operations Management Area

- 8/98 – 8/02 **INSEAD**, Fontainebleau, France
Assistant Professor, Technology and Operations Management Area
- 10/01 **University of British Columbia**, Vancouver, BC
Visiting Scholar, Operations and Logistics Division
- 8/96 – 5/98 **Massachusetts Institute of Technology**, Boston, MA
Resident Tutor, Random House Undergraduate Residence
- 5/96 – 8/96 **Hewlett Packard Laboratories**, Palo Alto, CA
Summer Intern, Decision Technologies Department

III. TEACHING

A. INDIVIDUAL STUDENT GUIDANCE

Post-doctoral Fellows

- Andriy Shapoval (with P. Keskinocak), 1/17 – present
Research Area: Policy Assessment for Recycling of Disaster Debris
- Cerag Pince (with M. Ferguson), 1/11 – 7/11
Research Area: Decision Support for Improved Financial and Environmental Performance of Product Leasing
Position: Assistant Professor of Operations Management, KLU Hamburg
Funding: NSF - DMI Grant No. 0620763
- Se-Kyoung Oh (with M. Ferguson), 8/06 – 8/07
Research Area: Enterprise Strategies for Remanufacturing under Competition and Environmental Regulation
Funding: NSF - DMI Grant No. 0522557

Doctoral Students

- Natalie Huang (co-chair of dissertation committee), Georgia Tech, graduated 8/16
Thesis: Primary and Secondary Market Strategies for Regulatory Compliance and Profit
Position: Assistant Professor of Operations Management, Carlson School of Management, University of Minnesota
Awards: Runner-Up, 2016 POMS Sustainable Operations Student Paper Competition
- Isil Alev (co-chair of dissertation committee), Georgia Tech, graduated 8/15
Thesis: Operational Perspectives on Extended Producer Responsibility for Durable and Consumable Products
Position: Assistant Professor of Operations Management, Boston College
Awards: Winner of the POMS Sustainable Operations Dissertation Proposal Award
- Luyi Gui (co-chair of dissertation committee), Georgia Tech, graduated 6/13
Thesis: Managing and optimizing decentralized networks with resource sharing
Position: Assistant Professor of Operations and Decisions Technologies, UC Irvine
- Yannis Bellos (co-chair of dissertation committee), Georgia Tech, graduated 6/12
Thesis: Designing Service Operations: Economic and Environmental Implications
Position: Assistant Professor of Operations Management, George Mason University

- Vishal Agrawal (co-chair of dissertation committee), Georgia Tech, graduated 6/10
Thesis: Essays in Sustainable Operations
Position: Associate Professor of Operations Management, Georgetown University
Awards: Winner of the 2010 Aspen Institute Dissertation Proposal Award
- Nektarios Oraopoulos (co-chair of dissertation committee), Georgia Tech, graduated 7/09
Thesis: Three Essays on the Role of Information Structures on New Product Development Strategies
Position: Assistant Professor, Judge School of Business, Cambridge University
- Tong Wang (committee member, co-author of job market paper), INSEAD, graduated 7/08
Thesis: Information and Flexibility in Supply Chain Management
Position: Associate Professor, Business School, National University of Singapore
Awards: First prize in the 2007 MSOM Student Paper Competition
- Onur Boyabatlı (co-chair of dissertation committee), INSEAD, graduated 1/07
Thesis: Essays on the Interaction of Operational and Financial Decisions
Position: Associate Professor of Operations Management, Singapore Management University
- Mümin Kurtuluş (chair of dissertation committee), INSEAD, graduated 6/05
Thesis: Supply Chain Collaboration Practices in the Consumer Goods Industry
Position: Associate Professor of Operations, Owen Graduate School of Management, Vanderbilt University
- Laurens G. Debo (co-chair of dissertation committee), INSEAD, graduated 6/02
Thesis: Topics in Product Remanufacturing, Repair and Disposal
Position: Associate Professor of Operations Management, Tuck Business School, Dartmouth
- Sezer Ülkü (co-chair of dissertation committee), INSEAD, graduated 6/02
Thesis: Risk ownership and time-to-market in contract manufacturing
Position: Associate Professor of Operations Management, McDonough School of Business, Georgetown University

Research with Undergraduate Students

- Ben Ibach, Tina Lu, Talia Debenedictis, Spring 2018
- Alexandra Brown, Rachel Chen, Ilesh Jain, Fall 2017
- Andrew Harris, Georgia Institute of Technology, Management, President's Undergraduate Research Award (PURA), Summer 2008
- Mark Keith Fernandez, Georgia Institute of Technology, Electrical Engineering with Minor in Management, President's Undergraduate Research Award (PURA), Summer 2006

Independent Study with Undergraduates

- Robert Hazelwood, Georgia Institute of Technology, College of Management, Summer 2008
- Chuck Kahng, Georgia Institute of Technology, College of Management, Summer 2006
- Parin Patel, Georgia Institute of Technology, College of Management, Summer 2006

Research Collaboration with Exchange Students

- Cerag Pince, PhD candidate, Erasmus University, Fall 2008
- Kristel Hoen, PhD candidate, Technical University of Eindhoven, Fall 2010 (Core Committee Member; graduated 11/12)

B. OTHER TEACHING ACTIVITIES

Courses Taught at Georgia Tech

IMBA 6430 Business Strategies for Sustainability, MBA-MOT and MBA-Global (team-taught)
Fall 2013, 2014, 2015, 2016, 2017

MGT 6359 Business Strategies for Sustainability, MBA (new course)
Taught as MGT 8803 Business and the Environment in 2005 - 2008
Spring 2006, 2007, 2008, 2010, 2011, 2012, 2013, 2014, 2016, 2017, 2018

SLS 3120 Foundations of Sustainable Systems, Undergraduate (new course)
Fall 2015, Spring 2016, Spring 2018

IL 6452A Sustainability in the Supply Chain, Executive MS in Logistics (new course)
May 2007, July 2008

IMBA 6170 Business Strategies for Sustainability, Global Executive MBA (new module)
Nov-Dec 2009, 2010, 2012

MGT 7354 Dynamic Programming via Applications, PhD (new course)
Spring 2007, 2010, 2012, 2014, 2017

MGT 3501 Operations Management, Undergraduate core course
Fall 2005, Spring 2006, Fall 2006, Fall 2007 (2 sections), Fall 2008 (2 sections), Spring 2011, Fall 2011, Fall 2012

ISyE 3104 Supply Chain Management, Undergraduate
Fall 2004

Courses Taught at INSEAD

Supply Chain Management, MBA (new course)	twice a year 1999 - 2005
Supply Chain Management, PhD (new course)	once a year 1999 - 2005
Foundations of Operations, PhD	once a year 1998 - 2005
Stochastic Processes, PhD	once a year 1998 - 2005
Optimization, PhD	once a year 1998 - 1999
Workshop on OM-Economics Interface (new seminar)	1999
Algebra and Calculus for Business	1999, 2000
Supply chain management modules in executive education programs	2000 - 2005

Curriculum Development

1. Co-op and Internship Carbon Reduction Challenge (UG, Georgia Tech) (new co-curricular initiative design), in collaboration with Dr. Kim Cobb, Earth and Atmospheric Sciences

Established in 2017 with a grant from the Ray C. Anderson Foundation and matching funds from the Scheller Dean's Innovation Fund, this Challenge engages undergraduate students to undertake carbon reduction project at their places of internship, in addition to their regular internship duties. In its first run during the Summer of 2017, the Challenge attracted 25 students who undertook projects in 10 different organizations, resulting in millions of pounds of projected carbon emissions reduction and hundreds of thousands of dollars in projected savings. More importantly, students increased their carbon literacy and gained valuable experience navigating an organization to enact change involving multiple stakeholders.

2. Business Strategies for Sustainability (MBA, Georgia Tech) (new course design)

This is a new course organized around a unique four-module structure (Fundamentals, Eco-Efficiency, Product Stewardship and Sustainability Strategies). It takes a holistic view of the interaction of businesses with the environment. It outlines reasons why businesses would want to care about environmental issues, introduces environmental assessment and management tools, and visits topics from various business functions. In addition to MBAs, students from Environmental Engineering, Mechanical Engineering, City and Regional Planning, and Public Policy enroll in this course, creating an interdisciplinary learning environment. Students learn from original research and company-sponsored guided projects (Canvas Systems, International Sleep Products Association,

Army Installation Management Agency, and Michelin). Faculty members from a variety of institutions have requested the syllabus and course material. A number of course sponsors have collaborated on NSF-funded projects and took part in Georgia Tech industry-academic workshops I organized.

3. Dynamic Programming via Applications (PhD, Georgia Tech) (new course design)

Dynamic Programming provides a set of general methods for making sequential, interrelated decisions under uncertainty. The focus of this course is on discrete-time stochastic problems. Its objective is to provide a basic understanding of the theory of dynamic programming that is frequently used in the formal studies of management. The techniques are illustrated through concrete applications from Inventory Management, Production Planning, Revenue Management, New Product Development, etc.

4. Executive Education Modules (Georgia Tech) (new course design)

I developed a module targeted specifically at supply chain managers for the Executive MS in Logistics program offered by ISyE and a module more appropriate for a general management audience for our Global Executive MBA program.

5. Supply Chain Management (MBA and PhD, INSEAD) (new course design)

I developed and introduced these courses in 1999, and updated them over time to include such topics related to my research interests as supply chain collaboration and closed loop supply chains. I developed decision support tools and a teaching case for the MBA course. I designed the PhD course to introduce the students to seminal and recent research in the topic, and updated it with new material every year.

6. Algebra and Calculus for Business (MBA, INSEAD) (restructuring of existing course)

This restructured course included material and exercises that made it more relevant to the core courses in the MBA program.

7. Executive Education (INSEAD) (new module design)

The new modules on Collaborative Forecasting and Retail Process Excellence were taught in company specific and open enrollment programs.

Pedagogical Material Development

1. Denizel, M., Ferguson, M. and L.B. Toktay, “Building Sustainability into Humanitarian Aid Operations: An Efficient Frontier Approach to the Selection of Recipients for Medical Supplies Donation,” in *Operations Management Education Review*, Vol. 7 (2013), special themed issue on “Pedagogical Approaches to Incorporating Sustainability in Operations and Supply Chain”
2. Mümin Kurtuluş and L.B. Toktay, “Supplier Rationalization at Barclays Retail Banking Services (A, B, C)” (case with teaching note).
This case study is comprised of three subcases – Print Procurement (A), The Partnership Approach (B), and Operationalizing and Growing the Partnership (C). It generates a discussion of different supply chain collaboration approaches in the retail sector and can be used to teach supply chain collaboration.
3. L.B. Toktay, Decision support tools for the Supply Chain Management elective.
This set of Excel spreadsheets are used with the HP Deskjet, Seagate Technologies and Hamptonshire Express cases to facilitate analysis and class preparation by MBA students.
4. L.B. Toktay and E. Yücesan, “Teaching Supply Chain Management with the Oracle Suite”
Developed in collaboration with Oracle, this module used the auction tool in Oracle for an in-class exercise supporting a half-day executive education module on reverse auctions in supply chains.

IV. SCHOLARLY ACCOMPLISHMENTS

A. PUBLISHED OR FORTHCOMING BOOKS AND PARTS OF BOOKS

1. Gui, L., N. Huang, A. Atasu, and L. B. Toktay, "Design Implications of EPR," in *Environmentally Responsible Supply Chains*, Ed. A. Atasu, Springer, 2016.
2. Agrawal, V. and L.B. Toktay, "Interdisciplinarity in Closed-Loop Supply Chain Management Research," in *Closed Loop Supply Chains: New Directions to Improve the Sustainability of Business Practices*, Ferguson, M. and G. Souza (Eds), Taylor and Francis Publishing, 2010, 197-214 (reviewed by the editors).
3. Ferguson, M., Souza, G. and L.B. Toktay, "Examples of Existing Profitable Practices in Product Take-back and Recovery," in *Closed Loop Supply Chains: New Directions to Improve the Sustainability of Business Practices*, Ferguson, M. and G. Souza (Eds), Taylor and Francis Publishing, 2010, 145-159 (reviewed by the editors).
4. Kurtuluş, M. and L.B. Toktay, "Category Captainship Practices in the Retail Industry," *Retail Supply Chain Management*, Agrawal N. and S. Smith (Eds.), Springer, 2008, 79 – 98 (refereed).
5. Toktay, L.B., L. Selhat and R. Anderson "Doing Well by Doing Good: Interface's Vision of Being the First Industrial Company in the World to Attain Sustainability," in *Enterprise Transformation: Understanding and Enabling Fundamental Change*, W. Rouse (Ed.), Wiley, 2006, 465 - 493 (reviewed by the editor).
6. Toktay, L.B., van der Laan, E. and M. de Brito, "Managing Product Returns: The Role of Forecasting," in *Quantitative Approaches to Reverse Logistics*, R. Dekker, K. Inderfurth, Luk Van Wassenhove and M. Fleischmann (Eds.), Springer Verlag, 2004 (refereed).
7. Toktay, L.B., "Forecasting Product Returns," in *Business Aspects of Closed-Loop Supply Chains*, Guide, V. D., Jr., and L.N. Van Wassenhove (Eds.), Carnegie Mellon University Press, Pittsburgh, Pennsylvania, 2003 (reviewed by the editors).

B. REFEREED PUBLICATIONS

Published or Forthcoming Papers in Refereed Journals

1. Gui, L., Atasu, A., Ergun, O. and L.B. Toktay, "The Design Implications of Collective EPR Regulation," forthcoming in *Management Science*.
2. Alev, I., Huang, X., Atasu, A. and L.B. Toktay, "An Evaluation of Market-Based Approaches to Extended Producer Responsibility: The Minnesota Recycling Act", forthcoming in *Journal of Industrial Ecology*.
3. Bellos, I., Ferguson, M. and L.B. Toktay, "The Car Sharing Economy: Interaction of Business Model Choice and Product Line Design," *M&SOM*, 19:2 (2017) 185-201.
4. Meng, Y. W., Atasu, A., L.B. Toktay and Can Zhang, "Efficient Distribution of Medical Surplus," *Production and Operations Management* special issue on "Not-for-Profit Operations Management" 26:6 (2017) 1142-1162.
5. Gui, L., Atasu, A., Ergun, O. and L.B. Toktay, "Fair and Efficient Implementation of Collective Extended Producer Responsibility Legislation," *Management Science* 62:4 (2016), 1098 - 1123. ([An](#)

earlier version obtained an Honorable Mention in the 2012 INFORMS SPPSN Section Paper Competition).

6. Agrawal, V., Kavadias, S. and L.B. Toktay, "Design and Introduction of Conspicuous Durable Products," *M&SOM* 18:2 (2016), 216 – 226.
7. Pince, C., Ferguson, M. and L.B. Toktay, "Extracting maximum value from consumer returns: Allocating between Remarketing and Refurbishing for Warranty Claims," *M&SOM* 18:4 (2016), 475 – 492.
8. Boyabatlı, O. and L.B. Toktay, "The Interaction of Technology Choice and Financial Risk Management: An Integrated Risk Management Perspective," *Management Science* 62:1 (2016), 225-244.
9. Gui, L., Atasu, A., Ergun, O. and L.B. Toktay, "Implementing Extended Producer Responsibility Legislation: A Multi-Stakeholder Case Analysis," *Journal of Industrial Ecology* 17:2 (2013), 262-276.
10. Atasu, A., Toktay, L.B. and L.N. Van Wassenhove, "How the Collection Cost Structure Drives the Manufacturer's Reverse Channel Choice," *Production and Operations Management* 22:5 (2013), 1089-1102.
11. Subramanian, R., Ferguson, M. and L.B. Toktay, "Component Commonality Strategies under Remanufacturing," *Production and Operations Management*, 22:1 (2013), 36-53.
12. Oraopoulos, N., Ferguson, M. and L.B. Toktay, "Relicensing Fees as a Secondary Market Strategy," *Management Science*, 58:5 (2012), 1022-1037.
13. Agrawal, V., Ferguson, M., Toktay, L.B. and V. Thomas, "Is Leasing Greener than Selling?," *Management Science*, 58:3 (2012), 523-533. (2015 Management Science Best Paper in Operations Management Award; selected from papers published in 2012-2014).
14. Kurtuluş, M., L.B. Toktay and S. Ulku, "Investing in Forecast Collaboration," *M&SOM* Winter 2012 14:82-98.
15. Boyabatlı, O. and L.B. Toktay, "Stochastic Capacity Investment and Technology Choice in Imperfect Capital Markets," *Management Science*, 57:12 (2011), 2163-2179.
16. Toktay, L.B. and D. Wei, "Internal Transfer Pricing for Remanufacturable Products," *Production and Operations Management* 20:6 (2011), 841 – 847.
17. Kurtuluş, M. and L.B. Toktay, "Category Captainship: Outsourcing Category Management," *Production and Operations Management*, 20:1 (2011), 47 - 56 (An earlier version of this paper won the 2006 POMS Wickham Skinner Best Unpublished Paper Award).
18. Wang, T. and L.B. Toktay, "Inventory Management with Advance Information and Flexible Delivery," *Management Science*, 54:4 (2008), 716 - 732 (Tong Wang won the 2007 MSOM Student Paper Competition with this paper).
19. Debo, L.G., Toktay, L.B. and L.N. Van Wassenhove, "Queuing for Expert Services," *Management Science*, 54:8 (2008), 1497 - 1512.
20. Ülkü S., Toktay, L.B. and E. Yücesan, "Risk Ownership in Contract Manufacturing," *Manufacturing and Service Operations Management*, 9:3 (2007), 225 – 241.

21. Ferguson, M. and L.B. Toktay, “The Effect of Competition on Recovery Strategies,” *Production and Operations Management*, special issue on Closed-Loop Supply Chains, 15:3 (2006), 351 – 368 (An earlier version of this paper won the 2005 POMS Wickham Skinner Best Unpublished Paper Award).
22. Debo, L.G., Toktay, L.B. and L.N. Van Wassenhove, “Joint Life-cycle Dynamics of New and Remanufactured Products,” *Production and Operations Management*, special issue on Closed-Loop Supply Chains, 15:4 (2006), 498 – 413.
23. Ülkü S., Toktay, L.B. and E. Yücesan, “The Impact of Outsourcing on the Timing Decision for Entry into Uncertain Markets,” *Production and Operations Management* special issue on Product Innovation, 14:3 (2005), 301 - 314.
24. Debo, L.G., Toktay, L.B. and L.N. Van Wassenhove, “Market Segmentation and Production Technology Selection for Remanufacturable Products,” *Management Science* 51:8 (2005), 1193 – 1205 (This paper was a finalist in the EURO/INFORMS 2003 Management Science Strategic Innovation Competition on *Market Coordination in Supply Chain Management*).
25. Gallego, G. and L.B. Toktay, “All-or-Nothing Ordering under a Capacity Constraint,” *Operations Research* 52:6 (2004), 1001-1002.
26. Toktay, L.B. and L.M. Wein, “Analysis of a Forecasting-Production-Inventory System with Stationary Demand,” *Management Science* 47:9 (2001), 1268 – 1281 (An earlier version of this paper won the 1999 MSOM Student Paper Competition).
27. Toktay, L.B., Wein, L.M. and S.A. Zenios, “Inventory Management for Remanufacturable Products,” *Management Science* 46:11 (2000), 1412 – 1426.
28. Toktay, L.B. and R. Uzsoy, “A Capacity Allocation Problem with Integer Side Constraints,” *European Journal of Operational Research* 109 (1998), 170 – 182.

Papers Submitted to Refereed Journals

29. Alev, I., Atasu, A., Ergun, O. and L.B. Toktay, “EPR for Unused Pharmaceuticals,” under first-round revision for *M&SOM*.
30. Huang, X., Atasu, A. and L.B. Toktay, “Product Design Decisions under Extended Producer Responsibility,” under third-round review in *Management Science*.
31. Hoen, K., Huang, X., Tan, T. and L.B. Toktay, “The Capacity Investment Decision under Asymmetric Emission Regulation,” under first-round review in *Production and Operations Management*.

Working Papers

32. Huang, X., Atasu, A., Tereyagolu, N., and L.B. Toktay, “Lemons, Trade-ins and Remanufacturing.”
33. Zhang, C., Atasu, A., Ayer, T., and L.B. Toktay “A Mechanism Design Approach for Medical Surplus Allocation.” (This paper was the first-prize winner in the 2017 POMS College of Sustainable Operations Student Paper Competition, the 2017 MSOM Student Paper Competition and the 2017 INFORMS Doing Good with Good OR Student Paper Competition).

Unpublished Manuscripts

34. Boyabatlı, O. and L.B. Toktay, “Operational Hedging: A Review with Discussion.”

Publications in Refereed Conference Proceedings

35. Oraiopoulos, N., Ferguson, M. and L.B. Toktay, “Relicensing Fees as a Secondary Market Strategy,” *Proceedings of the 14th Annual International EurOMA Conference*, Ankara, Turkey, June 2007.
36. Boyabatlı, O. and L.B. Toktay, “The Interaction of Operational and Financial Decisions,” *Proceedings of the 2006 MSOM Conference*, Atlanta, GA, June 2006.
37. Debo, L.G., Toktay, L.B. and L.N. Van Wassenhove, “Joint Life-cycle Dynamics of New and Remanufactured Products,” *Proceedings of the 2006 MSOM Conference*, Atlanta, GA, June 2006.
38. Kurtuluş, M. and L.B. Toktay, “Retail Assortment under Category Captainship,” *Proceedings of the 2006 MSOM Conference*, Atlanta, GA, June 2006.
39. Ferguson, M. and L.B. Toktay, “The Effect of Competition on Recovery Strategies,” *Proceedings of the 2006 Multiechelon Conference*, Atlanta, GA, June 2006.
40. Boyabatlı, O. and L.B. Toktay, “Operational Hedging: A Mathematical Framework,” *Proceedings of the 11th Annual International EurOMA Conference*, Fontainebleau, France, June 2004, 74 – 84.
41. Kurtuluş, M. and L.B. Toktay, “Category Management and Category Adviser Arrangement: Consumer Impact,” *Proceedings of the 11th Annual International EurOMA Conference*, Fontainebleau, FRANCE, June 2004, 363 – 372.
42. Toktay, L.B. and D. Wei, “Cost Allocation in Manufacturing-Remanufacturing Operations,” *Proceedings of the 11th Annual International EurOMA Conference*, Fontainebleau, France, June 2004, 599 – 608.

C. OTHER PUBLICATIONS

43. Atasu, A., T. Ayer, L. B. Toktay, C. Zhang. “Bridging Surplus with Need: Improving Healthcare in the Developing World,” *Huffington Post*, November 15, 2017.
44. Atasu, A. and L.B. Toktay, “3 Ways to Fix E-Waste Regulations,” *Huffington Post*, April 13, 2016.
45. Kurtuluş, M. and L.B. Toktay, “Category Captainship: Who Wins, Who Loses?” *Efficient Consumer Response Journal*, Vol. 4, No. 2, Winter 2004 (We were invited to write this article after an earlier version by PhD student M. Kurtuluş won the Gold Prize in the Fifth ECR Europe Student Competition of the *ECR Journal*.)
46. Toktay, L.B. “The Store: The Last Link in the Supply Chain,” *Dergi L*, September 2004.
47. Debo, L.G., Toktay, L.B. and L.N. Van Wassenhove, “Durability Selection in a Remanufacturing Environment,” *Proceedings of the MSOM 2000 Conference*.
48. Toktay, L.B., “Analysis of a Production-Inventory System with Stationary Demand and Dynamic Forecast Updates,” Extended Abstracts of 1999 Winners, MSOM Society Student Paper Competition, *Manufacturing and Service Operations Management*, 2:2 (2000), 108-109.

49. Toktay, L.B. and L.M. Wein, "Inventory Management for Remanufacturable Products," *Proceedings of the 1996 MSOM Conference*.

D. PRESENTATIONS

Conference and Workshop Presentations (invited/sponsored sessions and keynotes)

1. INFORMS Conference, Houston, TX, October 2017
 - Combining Curricular and Co-Curricular Approaches to Teaching Business Sustainability
 - Lemons, Trade-ins, and Remanufacturing*
 - Truthful Mechanisms for Medical Surplus Product Allocation*
 - On Recycling of Post-Disaster Debris*
2. Closed-Loop Supply Chain Workshop, Indiana, IN, October 2017
 - Truthful Mechanisms for Medical Surplus Product Allocation*
3. Keynote speaker, HKUST Sustainability Symposium, Hong Kong, August 2017
4. Discussant, Singapore Management University Operations Management Day, Singapore, August 2017
5. MSOM Conference, Chapel Hill, NC, June 2017
 - Sustainable Operations, the Key to Clean and Inclusive Growth (MSOM Distinguished Fellow Induction Session)
 - Panelist, Effective Reviewing for Academic Journals
 - Discussant, Sustainable Operations Special Interest Group Workshop
 - Truth-Inducing Mechanism for Medical Surplus Product Allocation*
6. POMS Conference, Seattle, WA, May 2017
 - Panelist, Doctoral Colloquium
 - Teaching Sustainable Operations to Executive MBAs
 - Lemons, Trade-ins and Remanufacturing*
 - Truth-Inducing Mechanism for Medical Surplus Product Allocation*
7. INFORMS Conference, Nashville, TN, October 2016
 - Efficient Medical Surplus Recovery*
 - Design Implications of Extended Producer Responsibility: Durable or Recyclable Products?*
 - Extended Producer Responsibility (EPR) for Pharmaceuticals*
 - Lemons, Trade-ins, and Remanufacturing*
 - To Sell And To Provide? The Economic And Environmental Implications Of The Auto Manufacturer's Involvement In The Car Sharing Business
 - Truth-Inducing Mechanism for Medical Surplus Product Allocation*
8. POMS Conference, Orlando, FL, May 2016
 - Efficient Medical Surplus Recovery*
 - Extended Producer Responsibility (EPR) for Pharmaceuticals*
 - Lemons, Trade-ins and Remanufacturing*
 - To Remarket Now or Save for Warranty Claims*
 - Carbon Leakage: The Impact of Asymmetric Emission Regulations on Technology and Capacity Investments*
 - Truth-Inducing Mechanism for Medical Surplus Product Allocation*

9. INFORMS Conference, Philadelphia, PA, November 2015
 - Moderator, Academic Job Search Panel
 - Design Implications of Extended Producer Responsibility: Durable or Recyclable Products?*
 - Extended Producer Responsibility (EPR) for Pharmaceuticals*
 - Lemons, Trade-ins, and Remanufacturing*
 - The Implications of the Auto Manufacturer's Involvement in the Car Sharing Business*
 - To Remarket Now or Save for Warranty Claims*
 - Trade-Ins Versus Upgrades: A Behavioral Exploration*
10. Purdue Doctoral Colloquium, West Lafayette, IN, September 2015
 - Perspectives on an Academic Career
11. MSOM Conference, Toronto, CA, June 2015
 - Lemons, Trade-ins and Remanufacturing*
12. POMS Conference, Washington DC, May 2015
 - Extended Producer Responsibility (EPR) for Pharmaceuticals*
 - Strategic Allocation of Medical Surplus*
 - Lemons, Trade-ins and Remanufacturing*
 - To Remarket Now or Save for Warranty Claims*
 - Design Implications of Extended Producer Responsibility: Durable or Recyclable Products?*
13. POMS Sustainable Operations College Mini-Conference, May 2015
 - Panelist, Sustainability in the Curriculum
 - Panelist, Research Incubator Debrief with Editor's Panel
14. INFORMS Conference, San Francisco, CA, November 2014
 - Panelist, Academic Job Search Panel
 - Extended Producer Responsibility (EPR) for Pharmaceuticals
 - Georgia Tech's Quality Enhancement Plan: Community, Sustainability, Service Learning
 - Carbon Leakage: The Impact of Asymmetric Emission Regulations on Technology and Capacity Investments*
 - Design Implications of Extended Producer Responsibility: Durable or Recyclable Products?*
 - Design Incentives, Coalitional Stability, or Cost Efficiency? A Network Perspective on EPR*
 - Lemons, Trade-ins, and Remanufacturing*
 - To Remarket Now or Save for Warranty Claims*
15. MSOM SIG Conference, Seattle, WA, June 2014.
 - Product Design or Cost Efficiency? – A Network Perspective on Extended Producer Responsibility*
16. POM Conference, Atlanta, GA, May 2014
 - Speaker, Perspectives on Research, Doctoral Colloquium
 - Design Incentives, Coalitional Stability, and Cost Efficiency:- A Network Perspective on Extended Producer Responsibility*
 - Extended Producer Responsibility for Pharmaceuticals*
 - The Effect of Extended Producer Responsibility Legislation and Export Bans on Secondary Market Strategies*
17. POMS Sustainable Operations College Mini-Conference, May 2014
 - Moderator, Extended Producer Responsibility for Pharmaceuticals

18. Closed-Loop Supply Chain Workshop, U. of South Carolina, October 2013.
 - Invited Panelist, Future of CLSC Research

19. INFORMS Conference, Minneapolis, MN, October 2013.
 - Design for Recovery or Obsolescence: The Effect of Take-back Legislation*
 - Extended Producer Responsibility (EPR) for Pharmaceuticals*
 - Product Design or Cost Efficiency? – A Network Perspective on Extended Producer Responsibility*
 - To Sell and to Provide? The Implications of the Auto Manufacturer’s Involvement in Car Sharing*
 - Panelist, Future Academician Doctoral Colloquium

20. MSOM SIG Conference, INSEAD, France, July 2013.
 - Discussant, Dynamics of a Responsible Relationship (Izhutov and Lee)
 - To Sell and to Provide? The Implications of the Auto Manufacturer’s Involvement in Car Sharing*

21. POM Conference, Denver, CO, May 2013
 - Design Incentives versus Cost Efficiency - A Network Perspective on Extended Producer Responsibility*
 - Design for recovery or obsolescence: The effect of take-back legislation*
 - Extracting Maximum Value from Consumer Returns*
 - To Sell and to Provide? The Implications of the Auto Manufacturer’s Involvement in the Car Sharing Business*
 - Extended Producer Responsibility (EPR) for Pharmaceuticals*

22. INFORMS Conference, Phoenix, AZ, October 2012.
 - Town Hall Meeting with the Editorial Board of Operations Research
 - WORMS: Advice on Promotion to Full from Associate Professor Panel
 - Design for Recovery or Obsolescence: The Impact of Take-Back Legislation*
 - Design Incentives, Fairness and Cost Efficiency: A Network Perspective on EPR*
 - EPR for Pharmaceuticals*
 - Fair and Efficient Implementation of Collective Extended Producer Responsibility Legislation*
 - Remanufacturing under Warranty and Consumer Returns*
 - The Impact of Budget Constraints on Flexible versus Dedicated Technology Choice*
 - To Sell and to Provide? The Implications of the Auto Manufacturer’s Involvement in Car Sharing*

23. MSOM SIG Conference, New York, NY, June 2012.
 - Fair and Efficient Implementation of Collective Extended Producer Responsibility Legislation

24. MSOM Conference, New York, NY, June 2012.
 - Design Implications of Collective Extended Producer Responsibility Legislation

25. POM Conference, Chicago, IL, May 2012.
 - The production capacity investment decision under asymmetric carbon emission regulation*
 - Extended Producer Responsibility Legislation for Pharmaceuticals
 - To Sell and to Provide? The Implications of the Auto Manufacturer’s Involvement in Car Sharing*
 - The Implications of the Customer-Provider Interaction on the Design of Services*
 - Collective Extended Producer Responsibility Legislation: Implementation and Design Implications*

26. Alliance for Research on Corporate Sustainability Conference (Yale), New Haven, CT, May 2012.
 - Fair and Efficient Implementation of Extended Producer Responsibility Legislation
27. Closed-Loop Supply Chain Workshop, MIT Zaragoza, Spain, March 2012.
 - Closing the Water Loop
28. INFORMS Conference, Charlotte, NC, October 2011.
 - Collective Extended Producer Responsibility Legislation: Implementation and Design Implications*
 - Flexible versus Dedicated Technology Choice under Budget Constraints*
 - New Product Introduction Strategies for Conspicuous Durable Goods*
 - Remanufacturing under Warranty and Consumer Returns*
 - To Sell or To Provide? A Comparison of Selling and Membership*
29. POMS Conference, Reno, NV, May 2011.
 - Fair and Efficient Implementation of Collective Extended Producer Responsibility Legislation
30. INFORMS Conference, Austin, TX, November 2010.
 - Fair and Efficient Implementation of Collective Extended Producer Responsibility Legislation*
 - Design and Introduction of Conspicuous Durable Products*
31. Kellogg Operations Management Workshop, September 2010
 - Keynote speaker on Sustainable Operations
32. Workshop featuring papers invited for submission to the *Operations Research* special issue on “OR for the Public Interest,” Stanford, CA, June 2010.
 - Fair and Efficient Implementations of Extended Producer Responsibility Legislation
33. Alliance for Research on Corporate Sustainability Conference (Harvard), Cambridge, MA, May 2010.
 - Is Leasing Greener than Selling?
34. POMS Conference, Vancouver, CA, May 2010.
 - To Sell or To Provide: A Comparison of Selling and Membership*
 - Designing Products for Physical Obsolescence: The Effect of Snobs*
35. INFORMS Conference, San Diego, CA, October 2009.
 - Component Commonality under Product Remanufacturing
 - Design and Introduction of Conspicuous Products*
 - Is Leasing Green?*
36. MSOM Conference, Boston, MA, June 2009.
 - Is Leasing Green? The Environmental Impact of Product Recovery, Remarketing and Disposal under Leasing and Selling
 - Designing Products for Physical Obsolescence: The Effect of Snobs*
37. POMS Conference, Orlando, FL, May 2009.
 - To Sell or To Provide: A Comparison of Selling and Membership*
 - Is Leasing Green? The Environmental Impact of Product Recovery, Remarketing and Disposal under Leasing and Selling*
 - Designing Products for Physical Obsolescence: The Effect of Snobs

38. INFORMS Conference, Washington DC, October 2008.
 - Leasing & Selling: The Environmental Implications of Product Recovery & Marketing Strategies*
39. MSOM Supply Chain Management SIG Conference, Washington, DC, June 2008.
 - Relicensing as a Secondary Market Strategy*
40. INFORMS Conference, Seattle, October 2007.
 - Relicensing as a Secondary Market Strategy*
 - Capacity Investment in Imperfect Capital Markets*
 - Component Commonality Under Product Remanufacturing
 - Inventory Management with Advance Demand Information and Flexible Delivery*
 - Matching Collection Channel with Collection Strategy in Reverse Supply Chains
 - Evaluating the Environmental Performance of Product Leasing*
 - The Interaction of Technology Choice and Financial Risk Management*
41. Closed-Loop Supply Chain Workshop, Thessaloniki, Greece, October 2007.
 - The Georgia Tech Sustainable Value Chains Initiative
42. EUROMA Conference, Ankara, Turkey, June 2007.
 - Relicensing Fees as a Secondary Market Strategy*
43. POMS Conference, Boston, May 2007.
 - Teaching about Business and the Environment
 - Relicensing Fees as a Secondary Market Strategy*
 - OEM Certification Strategies in Secondary Markets*
44. INFORMS Annual Meeting, Pittsburgh, November 2006.
 - OEM Strategies in Secondary Markets
 - The Interaction of Technology Choice and Financial Risk Management*
45. DMI Grantees Conference, St. Louis, July 2006.
 - Enterprise Remanufacturing Strategies under Competition and Regulation (poster)
46. Environmentally Benign Design and Manufacturing Workshop, NSF, Washington DC, June 2006.
 - Enterprise Remanufacturing Strategies under Competition and Regulation (poster)
47. INFORMS International Conference, Hong Kong, June 2006.
 - Optimality of (s,S) Policies in Inventory Systems with Advance Demand Information and Flexible Delivery*
 - The Interaction of Technology Choice and Financial Risk Management*
48. MSOM Conference, Atlanta, June 2006.
 - Life-Cycle Dynamics for Portfolios with Remanufactured Products
 - Retail Assortment Planning under Category Captainship*
 - The Interaction of Operational and Financial Decisions*
49. Multi-Echelon Conference, Atlanta, June 2006.

- The Effect of Competition on Recovery Strategies
50. Risk Management Conference (by invitation), University of Michigan, June 2006.
 - The Interaction of Technology Choice and Financial Risk Management* (poster)
 51. POMS Conference, Boston, May 2006.
 - The Effect of Competition on Recovery Strategies
 - Category Captainship: Outsourcing Retail Category Management*
 52. INFORMS Annual Meeting, San Francisco, November 2005.
 - Life-Cycle Dynamics for Portfolios with Remanufactured Products
 - Retail Assortment Planning under Category Captainship*
 - The Interaction of Resource Flexibility and Financial Hedging under Costly External Financing*
 - The Interaction of Technology Choice and External Financing Costs*
 53. Closed-Loop Supply Chain Workshop, Vanderbilt University, October 2005.
 - Teaching about Sustainable Operations
 54. MSOM Conference, Chicago, June 2005.
 - The Interaction of Technology Choice and Financial Risk Management under Costly External Financing*
 55. BCTIM Risk Management Conference (by invitation), Olin School of Business, June 2005.
 - The Interaction of Technology Choice and Financial Risk Management under Costly External Financing*
 56. Euroma, Fontainebleau, France, June 2004.
 - Internal Transfer Pricing for Remanufacturable Products
 - Category Management Collaboration*
 - Operational Hedging: A Mathematical Framework*
 57. NSF Supply Chain Management Workshop, Gainesville, FL, February 2004.
 - Internal Transfer Pricing for Remanufacturable Products
 58. INFORMS Annual Meeting, Atlanta, GA, October 2003.
 - Internal Transfer Pricing for Remanufacturable Products
 - Strategic Behavior in Queues with Expert Servers
 59. MSOM Conference, Los Angeles, CA, June 2003.
 - Investing in Forecast Quality
 - Strategic Behavior in Queues with Expert Servers*
 60. INFORMS Annual Meeting, San Jose, CA, November 2002.
 - Investing in Forecast Quality
 - The Impact of Outsourcing on the Timing of Entry under Evolving Demand Information*
 61. INFORMS Annual Meeting, Miami Beach, FL, November 2001.
 - Asymmetric Demand Information in Supply Chains
 - Expanding a Product Line with Remanufacturable Products *
 - Risk Ownership in Contract Manufacturing *
 62. 4th REVLOG Summer Workshop, Costa da Caparica, Portugal, September 2001.

- Forecasting Product Returns: A Broader View
63. Thought Leaders Roundtable in Supply Chain Management, INSEAD, France, August 2001.
 - Collaborative Forecasting: Issues and Models
 - Market Segmentation and Production Technology Selection for Remanufacturable Products*
 64. EURO 2001, Rotterdam, NL, July 2001.
 - Asymmetric Demand Information in Supply Chains
 65. CIMSO Supply Chain Management Forum, INSEAD, November 2000.
 - Benefits of Assessing Return Flow Parameters in the Inventory Management of Remanufacturable Products
 66. INFORMS Annual Meeting, San Antonio, TX, November 2000.
 - Asymmetric Demand Information in Supply Chains
 - Durability Selection of Components in a Remanufacturable Product*
 67. 3rd REVLOG Summer Workshop, Wittenberg, Germany, August 2000.
 - Inventory Management of Remanufacturable Products
 - Durability Selection of Components in a Remanufacturable Product*
 68. INFORMS Annual Meeting, Salt Lake City, UT, May 2000.
 - All-or-Nothing Ordering under a Capacity Constraint
 69. INFORMS Annual Meeting, Cincinnati, OH, May 1999.
 - Analysis of a Production - Inventory System under a Stationary Demand Process and Forecast Updates
 70. INFORMS Annual Meeting, Dallas, TX, 1997.
 - Heavy Traffic Analysis of Production - Inventory Systems with Complex Demand and Forecasting Processes
 71. MSOM Conference, Hanover, NH, 1996.
 - Inventory Management of Remanufacturable Products
 72. ORSA/TIMS Annual Meeting, Boston, MA, 1994
 - A Capacity Allocation Problem with Integer Side Constraints

* denotes presentations by one of my PhD students

Invited Seminars

1. Sauder School of Business, University of British Columbia, Vancouver, CA, May 2017
2. University College London, London, UK, March 2017
3. London Business School, London, UK, March 2017
4. Cambridge Judge Business School, Cambridge, UK, March 2017
5. Rotman School of Business, University of Toronto, Toronto, CA, May 2016
6. Yale School of Business, New Haven, CT, May 2016
7. Kellogg School of Business, Northwestern University, Evanston, IL, May 2015
8. Tepper School of Business, Carnegie Mellon University, Pittsburgh, PA, April 2015
9. MIT ORC, Boston, MA, March 2015.

10. Analytics, Boston, MA, January 2015.
11. Carroll School of Management, Boston College, October 2014.
12. Harvard Business School (B&E Initiative, TOM group), Harvard U., February 2014, December 2014.
13. Foster School of Business, U. of Washington, November 2013.
14. Fuqua School of Business, Duke University, October 2013.
15. Haas School of Business, U. of California Berkeley, April 2013.
16. College of Business, U. of Illinois, April 2013.
17. David Eccles School of Business, U. of Utah, November 2012.
18. INSEAD, June 2012.
19. Graduate School of Business, Stanford University, April 2012.
20. Marshall School of Business, U of Southern California, April 2012.
21. Steven M. Ross School of Business, University of Michigan, March 2012.
22. Johnson School of Business, Cornell University, September 22, 2011.
23. Robert H. Smith School of Business, University of Maryland, May 6, 2011.
24. Steven M. Ross School of Business, University of Michigan, April 15, 2011.
25. Stern School of Business, NYU, December 9, 2010.
26. Lundquist College of Business, University of Oregon, June 4, 2010.
27. Kenan-Flagler Business School, University of North Carolina, March 15, 2010.
28. Kellogg Graduate School of Management, Northwestern University, February 17, 2010.
29. CT Bauer College of Business, University of Houston, Jan 25, 2010.
30. Harvard Business School, Harvard University, December 18, 2008.
31. Darden Business School, University of Virginia, November 17, 2008.
32. Johnson School of Business, Cornell University, April 4, 2008.
33. Industrial Engineering and Operations Research, University of Michigan, February 22, 2006.
34. Olin School of Business, Washington University, November 18, 2004.
35. Krannert School of Management, Purdue University, November 11, 2004.
36. Robert H. Smith School of Business, University of Maryland, September 17, 2004.
37. Owen Graduate School of Management, Vanderbilt University, April 2, 2004.
38. Kenan-Flagler Business School, University of North Carolina, November 7, 2003.
39. School of Industrial and Systems Engineering, Georgia Institute of Technology, November 27, 2001.
40. Dupree College of Management, Georgia Institute of Technology, November 16, 2001.
41. Operations and Logistics Division, University of British Columbia, October 1, 2001.
42. Technical University of Eindhoven, Eindhoven, NL, April 14, 2001.
43. School of Industrial and Systems Engineering, Georgia Institute of Technology, April 1999.
44. Laboratoire d'Informatique de Paris 6, Universite Pierre et Marie Curie, Paris, March 1999.

V. SERVICE

A. PROFESSIONAL CONTRIBUTIONS

Editorial Positions

- Area Editor, Environment, Energy and Sustainability, *Operations Research* (January 1, 2012 – December 31, 2017)
- Associate Editor, *Manufacturing and Service Operations Management* (January 1 2007 – December 31, 2017)

- Associate Editor, *Management Science* (January 1, 2010 – December 31, 2016)
- Co-Editor, *M&SOM* Special Issue on the Environment (published in 2013)
- Associate Editor, *Operations Research* (January 2009 – December 2011)
- Senior Editor, *Production and Operations Management* (August 2009 – December 2012)
- Associate Editor, *Naval Research Logistics* (October 2007 – December 2011)
- Editorial Review Board, *Production and Operations Management* (2004 – 2009)
- Editorial Board, *Manufacturing and Service Operations Management* (2004 – 2006)
- Guest Associate Editor, *Management Science* (2005, 2007).

Service in Professional Organizations and Universities

- *Member*, Strategic Review Board, Cambridge Judge Business School, November 2017
- *Board of Directors and Chair of Awards Committee*, Alliance for Research on Corporate Sustainability (May 2015 – present)
- *Judge*, Paul Kleindorfer Award, POM Society (2015)
- *President*, MSOM Society (July 2012 – June 2013)
- *Executive VP and President-Elect*, MSOM Society (July 2011 – June 2012)
- *Founding Co-chair*, MSOM SIG on Sustainable Operations (June 2010- July 2011)
- *VP Finance*, POM Society (May 2010-April 2013)
- *Secretary/Treasurer*, MSOM Society, (July 2007 – June 2009)
- *Member*, INFORMS Ad-Hoc Committee on Diversity (July 2006 – January 2007)
- *Judge*, MSOM Best Paper Award (2014, 2015), MSOM Student Paper Competition (2004, 2005, 2007, 2010), JFIG Paper Competition (2006, 2010), POMS Sustainable Supply Chains Best Paper Competition (2007)
- *President*, Institute for Operations Research and Management Science MIT Student Chapter, 1995-96

Conference/Workshop/Session Organization

Conference Chair/Co-Chair

- *Co-Chair* – “Early Career Workshop on Sustainable Operations,” Scheller College of Business, February 2015, March 2016, March 2017 (with A. Atasu)

This workshop was first organized around the book edited by Professor Atasu, *Environmentally Sustainable Supply chains* and brought together about 45 academics contributing to this book. Based on the positive feedback by participants, the workshop has continued as an early-career networking workshop in sustainable operations, co-funded by the Ray C. Anderson Center for Sustainable Business. The hosts in 2016 and 2017 were the Poole College of Management at NC State and Darden Business School at UVA. The 2018 edition will be hosted at Scheller College again.

- *Co-Chair* – “Sustainable Operations SIG Inaugural Conference,” University of Michigan, June 26, 2011 (with E. Plambeck).

This conference had the goal of introducing emerging sustainability issues to the OM audience and giving impetus to the M&SOM Special issue on the Environment. It featured a plenary on Life-Cycle Assessment for Global Supply Chain Management, and academic-industry talks on Supply Chain & Land-Use Design for Biofuels, Energy Efficiency in the Built Environment, Supply Chain Aspects of Greenhouse Gas Reduction, Operations Management for Renewables and the Grid, and Chemicals Policy and OM Implications.

- *Co-Chair* – “8th International Workshop on Closed Loop Supply Chains,” Georgia Tech, October 9 - 11, 2008 (with M. Ferguson).

The theme of this academic conference was Interdisciplinarity in Closed-Loop Supply Chain Research. It featured a poster session, presentations on Industrial Ecology, industry guest speakers from the Army Installation Management Agency and Interface, and a site visit to Medshare. Breakout groups facilitated by Georgia Tech faculty brainstormed research directions and solutions inspired by the business cases presented. Book chapter A.1 draws on the case studies presented at this workshop.

- *Chair* – “Inter-Industry Synergy Workshop,” Georgia Tech, September 5, 2008.

This NSF-funded workshop brought together local businesses and policy makers in the state of Georgia to find ways to improve landfill diversion rates for renovation waste from buildings.

- *Co-Chair* - MSOM Supply Chain Management Special Interest Group Conference on “Sustainable and Humanitarian Applications of Supply Chains,” Washington, DC, June 7, 2008 (with M. Ferguson and Pinar Keskinocak).

The first conference of the SCM SIG featured a blend of traditional supply chain papers as well as papers on sustainable operations and humanitarian logistics.

- *Chair* - ECLIPS Workshop on “Product Re-X: Recovery, Recycling, Remanufacturing, Reuse. Innovations in Business Models, Product Design and Economic Development,” Georgia Tech, June 21, 2006.

This integrative workshop, funded by Georgia Tech, NSF, Delta and the National Association of Environmental Managers, showcased the entire breadth of the research expertise in the ECLIPS Focused Research Program (see Section B below) via a research poster session and eight industry/academic panels in two parallel tracks, moderated primarily by ECLIPS faculty. It attracted approximately 100 participants from industry, public entities, academia and NGOs. More importantly, some participants later became collaborators on NSF projects, and sponsored course projects in the “Business Strategies for Sustainability” course.

- *Co-chair* - ECLIPS Workshop on “Electronics Recycling: Today and Tomorrow,” Georgia Tech, December 9, 2005 (with N. G. Leigh).

This focused NSF workshop brought together approximately 45 participants from private recyclers and government agencies to discuss ways to divert electronic waste from landfills, in the US and internationally. It included a series of presentations by Georgia Tech faculty about their research on modeling e-waste flows in urban centers and the economic development opportunities in recycling e-waste, as well as an introduction of SISFUR and ECLIPS (see section B below).

- *Co-chair* - Thought Leaders Roundtable in Supply Chain Management, INSEAD, August 2001 (with L.N. Van Wassenhove).

This is an annual two-day academic workshop that brings together approximately forty leading international faculty engaged in Supply Chain Management research. I have been an invited participant of this workshop since 2001.

- *Organizer* - CIMSO Supply Chain Forum on Contract Manufacturing, INSEAD, June 2001.

Managers from six original equipment manufacturers and contract manufacturers discussed the current status of outsourcing activities and strategy in this one-day workshop open to practitioners and the INSEAD community. The discussion in this workshop motivated paper IV.B.5.

Cluster Chair

- *Cluster Chair* – Closed-Loop Supply Chains, INFORMS, Washington, DC, October 2008.
- *Cluster Chair* – Reverse Supply Chains, INFORMS, Denver, CO, October 2004.
- *Cluster Co-Chair* – Reverse Supply Chains, INFORMS, Atlanta, GA, October 2003.

Session Chair

- *Sponsored Session Chair* – *Closed-Loop Supply Chains*, INFORMS Annual Meeting, Seattle, November 2007.

- *Invited Session Chair* – Teaching about Sustainable Operations, POMS Conference, Dallas, TX, May 2007.
- *Invited Session Chair* – The Impact of Regulation in Closed-Loop Supply Chains, INFORMS Annual Meeting, Pittsburgh, PA, November 2006.
- *Invited Session Chair* – OM/Finance Interface, INFORMS Annual Meeting, Pittsburgh, PA, November 2006.
- *Invited Session Chair* – Closed-Loop Supply Chains, INFORMS Annual Meeting, San Francisco, CA, November 2005.
- *Invited Session Chair* – Return Flows: Management, Network Design, Forecasting Value, INFORMS Annual Meeting, Denver, CO, October 2004.
- *Panel Coordinator* – Teaching Sustainable Operations, Closed-Loop Supply Chains Workshop, Vanderbilt University, October 2005.
- *Invited Session Chair* – Supply Chain Demand Management, INFORMS Annual Meeting, Atlanta, GA, October 2003.
- *Session Coordinator* – Carnegie Bosch Institute Closed-Loop Supply Chains Workshop, Penn State, October 2003.
- *Sponsored Session Chair* – Product Variety and Demand Substitution, INFORMS, Miami Beach, FL, Nov. 2001.

Referee for Technical Journals

- *Management Science*
- *Operations Research*
- *Manufacturing and Service Operations Management*
- *Production and Operations Management*
- *IIE Transactions*
- *European Journal of Operational Research*
- *International Journal of Production Research*
- *Naval Research Logistics*
- *IEEE Transactions in Automatic Control*

Reviewer for Publishers

- Handbook of Production Planning, *Kluwer International Series in Operation Research and Management Science, Advancing the State-of-the-Art Subseries*, Kempf, K., P. Keskinocak, and R. Uzsoy, Editors.

Memberships

- Member, INFORMS
- Member, POMS
- Member, MSOM
- Member, Tau Beta Pi Engineering Honor Society
- Member, Omega Rho International Operations Research Honor Society

B. CAMPUS CONTRIBUTIONS

Institutional Contributions

- Co-designer and Executive Faculty Co-Director, Serve-Learn-Sustain Quality Enhancement Plan (March 2013 -)

Serve•Learn•Sustain is an approximately \$6M, 5-year institutional effort to equip Georgia Tech students to learn and serve around the theme “creating sustainable communities” through engagement with content and context. The initiative was developed as Tech's Quality Enhancement Plan (QEP), as a key component to its reaffirmation of accreditation. I co-led the design effort that culminated in the proposed plan, which can be found at www.serve-learn-sustain.gatech.edu. I am currently serving as its Executive Faculty Co-Director.

- Founding Faculty Director, Ray C. Anderson Center for Sustainable Business (March 2013 -)

The mission of the Center is to enhance and showcase sustainability research, education and impact in the Scheller College of Business by providing an Academic Venture Fund for cutting-edge research, enhancing the curricular and extracurricular offerings of the College, and closely engaging students, business leaders and alumni for real-world impact. The Center was founded by expendable donations from the Ray C. Anderson Foundation and Kendeda for a three-year period. In early January 2015, following a gift by the Ray C. Anderson Foundation, it was named the Ray C. Anderson Center for Sustainable Business.

- Scheller College of Business ADVANCE Professor (August 2012 -)

The ADVANCE program was established to support the full participation and advancement of women in academia and to provide a model of best practices. ADVANCE Professors coordinate a network of faculty within each of their colleges and serve as a faculty advocate and liaison with their deans. The ADVANCE team steers an Institute-wide Equity, Diversity and Excellence Initiative consisting of Leadership Training and Mentoring, encouraging Transparency, promoting Bias Awareness and a Culture of Equity, and Data Collection and Analysis to aid in assessment and policy input. As part of my activities, I co-organize the Demystifying Tech series and the Adaptive Leadership Workshop (with P. Keskinocak). I also established the Scheller College Diversity and Inclusion Council and serve as its ex-officio member, and co-direct the GT Diversity and Inclusion Fellows program.

Research Programs

- Coordinator, Georgia Tech Focused Research Program on Expanding Closed Loops in Production Systems (ECLIPS), August 2005 – 2010.

Focused Research Program (FRP) Grants are competitive internal seed funds for initiating interdisciplinary research centers at Georgia Tech (5 out of ~25 funded each year for one year). I established the Expanding Closed Loops in Production Systems (ECLIPS) FRP (awarded in 08/05). The program includes Drs. Atasu (MGT), Ferguson (MGT), Subramanian (MGT), Bras (ME), Ammons (ISyE), McGinnis (ISyE), Thomas (ISyE/PP), Realff (ChBE) and Leigh (ARCH), interested in different facets of closing the materials loop in society through remanufacturing, recycling and reuse. These faculty members generated more than \$3M of new NSF funding in the area. The ECLIPS workshops (see above) initiated collaborations with companies such as IBM, Canvas Systems, Jabil Circuit, and Cummins Engine, and with the Georgia Tech Enterprise Innovation Institute whose role is to connect companies to campus research resources.

University Committees, Advisory Boards and Leadership Activities

- Co-Director, Diversity and Inclusion Fellows Program (with Magnus Egerstedt), Jan 2017 – present
- Living Building Academic and Research Council, Jan 2017 – present

- Co-Organizer, ADVANCE Demystifying Tech series (with Pinar Keskinocak), August 2016 – present
- Co-Organizer, ADVANCE Adaptive Leadership program (with Pinar Keskinocak), August 2016 – present
- Member, Provost’s Global Change Executive Committee, October 2016 – March 2017
- Fellow, Council of Foreign Affairs, April 2015 – present
- Advisory Board, Brook Byers Institute for Sustainable Systems, August 2015 – present
- Faculty Advisory Board, Strategic Energy Institute, January 2014 – present
- Advisory Board, Energy Club, Jan 2014 – December 2017
- Faculty Advisory Board, The Manufacturing Institute, October 2014 – May 2017
- Internal Advisory Board, Center for Urban Innovation, August 2014 – May 2017
- ISS Director Search Committee, Georgia Institute of Technology, October 2007 – June 2008
- Provost’s Task Force on Interdisciplinarity, Georgia Institute of Technology, May 2007 – Dec 2007

College Committees and Leadership Activities

- Scheller College of Business Diversity Council, January 2017 – present (ex-officio)
- Goal Co-Facilitator (Diversity and Inclusion), Scheller Strategic Plan Steering Committee, August 2015 – present (with Chris Shalley)
- Endowed Chairs Committee, Scheller College of Business, August 2015 – present
- Periodic Peer Review Committee, Scheller College of Business, September 2012 – August 2015, August 2016 – present
- Strategic Planning Task Force, Scheller College of Business, August 2014 – February 2015
- Undergraduate Committee, Scheller College of Business, August 2014 – August 2015
- Chair, ADVANCE Equity, Diversity, Excellence Initiative, August 2013 – May 2015
- Dean Search Committee, Scheller College of Business, August 2013 – March 2014
- PhD Committee, College of Management, Georgia Institute of Technology, August 2007 – July 2012
- PhD Coordinator, Production and Operations Management group, Georgia Institute of Technology, August 2007 – July 2012
- Ethics Chair Search Committee, College of Management, Georgia Institute of Technology, January 2007 – February 2009
- PhD Task Force, College of Management, Georgia Institute of Technology, August 2007 – June 2008
- MBA Committee, College of Management, Georgia Institute of Technology, August 2006 – July 2007
- Management Dean Search Committee, Georgia Institute of Technology, August 2005 – February 2006
- Research and Development Committee, INSEAD, September 2000 – August 2003
- PhD Committee, INSEAD, September 2001 – August 2003
- PhD Coordinator, Production and Operations Management group, INSEAD, 2001 – 2003
- Academic recruiting coordinator for Production and Operations Management, INSEAD, 1999 – 2001
- PhD Qualifying Examination Committee, INSEAD, 1998 – 2005
- Seminar series coordinator, INSEAD, 1999 – 2000

Doctoral Dissertation Committees (chair or co-chair)

- Ximin (Natalie) Huang, Georgia Institute of Technology, Scheller College of Business, 8/16
- Isil Alev, Georgia Institute of Technology, ISyE, 8/15
- Luyi Gui, Georgia Institute of Technology, ISyE, 6/13
- Yannis Bellos, Georgia Institute of Technology, College of Management, 6/12
- Vishal Agrawal, Georgia Institute of Technology, College of Management, 6/10
- Nektarios Oraopoulos, Georgia Institute of Technology, College of Management, 7/09
- Onur Boyabatlı, INSEAD, Technology Management, 1/07
- Mümin Kurtuluş, INSEAD, Technology Management, 6/05
- Sezer Ülkü, INSEAD, Technology Management, 6/02
- Laurens Debo, INSEAD, Technology Management, 6/02

Doctoral Dissertation Committees (committee member)

- Can Zhang, Georgia Institute of Technology, ISyE, exp. 6/18
- Mallory Flowers, Georgia Institute of Technology, Public Policy, 6/17
- Nathaniel Tindall, Georgia Institute of Technology, ISyE, 6/14
- Dong Gu Choi, Georgia Institute of Technology, ISyE, 12/12
- Kristel Hoen, Eindhoven Technical University (core committee), 11/12
- Wenli Xiao, Georgia Institute of Technology, College of Management, 8/12
- Ulaş Cakmak, Georgia Institute of Technology, Industrial and Systems Engineering, 4/12
- Jeremy Hutchison-Krupat, Georgia Institute of Technology, College of Management, 8/11
- Mohammad Jalil, Rotterdam University, School of Management, 1/11
- Brian Jacobs, Georgia Institute of Technology, College of Management, 9/09
- Tong Wang, INSEAD, Decision Sciences, 6/08
- Erik Lystad, Georgia Institute of Technology, College of Management, 9/06
- Raul Chao, Georgia Institute of Technology, College of Management, 6/07
- Lorin Hitt, Georgia Institute of Technology, Industrial and Systems Engineering, 7/07
- Yufeng Yao, Georgia Institute of Technology, Industrial and Systems Engineering, 6/07
- Matt Drake, Georgia Institute of Technology, Industrial and Systems Engineering, 9/06
- Chengxin Qu, INSEAD, Technology Management, graduated 7/05
- Deniz Özdemir, INSEAD, Technology Management, graduated 7/04

Master's Dissertation Committees

- Sophie Govetto, Georgia Institute of Technology, Mechanical Engineering, 12/07
- Michael C. Muir, Georgia Institute of Technology, Mechanical Engineering, 8/06

PhD Minor Advisor

- Raymond White, Georgia Institute of Technology, City and Regional Planning, minor in “Environmental Management.”

Outreach Activities

- Panel Moderator, Circular Economy, Net Impact Conference, Atlanta, GA, November 2017 (videotaped panel disseminated via Ellen Macarthur Foundation’s Disruptive Innovation Festival)

- Participant, World Economic Forum Meeting, New York, NY, September 2017
- Panelist, “So, Now What?” 2017 Georgia Tech Diversity Forum, September 2017
- Panelist, Sustainable Energy, INTERSECT: Energy, Policy, Innovation Conference, Atlanta, GA, April 2017
- Panelist, Circular Economy, CISCO Strategy Exchange, San Jose, CA, March 2017
- Moderator, Perspectives on Gender Equity Panel, 2016 Georgia Tech Diversity Forum, September 2016
- Participant, MIT Alumni Network Webcast on “What’s your carbon footprint?”, October 2016
- Moderator, FRANCE-Atlanta Panel on “Climate change and humanitarian aid : local and global stakes in COP21”, October 2015
- Panelist, ADVANCE EDE Initiative Panel, 2015 Georgia Tech Diversity Forum, September 2015
- Volunteer, Community Consulting Groups for Atlanta green space project, Spring 2008
- Panelist, “Sustainability Leadership,” Techno-Business Forum on Enterprise Transformation, The Center for Paper Business and Industry Studies, May 2008
- Speaker, “Sustainability Education at Georgia Tech,” Parent Weekend, Georgia Institute of Technology, September 2008
- Speaker, “My Journey in the Scholarship of Sustainability,” Atlanta Women for Change, February 2008
- Panelist, “An Inconvenient Truth,” Net Impact Event, April 2007

VI. GRANTS AND CONTRACTS

A. AS PRINCIPAL OR CO-PRINCIPAL INVESTIGATOR

1. Co-op and Internship Carbon Reduction Challenge (\$55,000), Kim Cobb & Beril Toktay (**co-PIs**), 6/17-5/18.
2. SEI Energy Equity Applied Research Grant (\$30,000), Marilyn Brown, Michael Oxman & Beril Toktay (**co-PIs**), 6/17-5/18.
3. Strategic Plan Advisory Group (SPAG) Diversity and Inclusion grant (\$280,000), Magnus Egerstedt, Pinar Keskinocak, Steve McLaughlin & Beril Toktay (**co-PIs**), 8/16-7/19.
4. Ray C. Anderson Foundation Gift (\$5,000,000), Funding for the term-of-years naming of the Ray C. Anderson Center for Sustainable Business, 7/15 – 6/25.
5. Kendeda Fund Grant (\$300,000), Seed Funding for the Center on “Business Strategies for Sustainability,” Beril Toktay (**PI**), 2/13 – 6/16.
6. Ray C. Anderson Foundation Grant (\$750,000), Seed Funding for the Center on “Business Strategies for Sustainability,” Beril Toktay (**PI**), 2/13 – 6/16.
7. NSF Grant (Award Number DMI - 1031167, \$340,000), “Fair and Efficient Implementation of Extended Producer Responsibility Legislation for Electronic Waste,” L.B. Toktay (**PI**), A. Atasu (co-PI), O. Ergun (co-PI), 8/10 – 7/13.
8. NSF Grant (Award Number DMI - 0522557, \$300,000) “Enterprise Strategies for Remanufacturing in the Presence of Competition and Legislation,” L.B. Toktay (**PI**), M. Ferguson (co-PI), B. Bras (co-PI), 8/05-7/08.

9. NSF Grant (Award Number DMI - 0620763, \$300,000) “Decision Support for Improved Financial and Environmental Performance of Product Leasing,” M. Ferguson (PI), L. B. Toktay (**co-PI**), B. Bras (co-PI) 8/06-7/09.
10. NSF Grant (Award Number DMI - 0631954, \$10,000) “Workshop: Product Re-X: Recycling, Reuse and Remanufacturing. Innovations in Business Models, Product Design and Economic Development,” B. Toktay (**PI**), 6/06 – 5/07.
11. NSF Grant (Award Number DMI - 0631954, \$55,689) “Workshop: Recovered Materials: Inter-industry Synergy Workshop,” B. Toktay (**PI**), 10/06 – 9/07.
12. Georgia Institute of Technology, “Expanding Closed Loops in Production Systems,” L. B. Toktay (coordinator), J. Ammons, B. Bras, M. Ferguson, B. Hill, N. G. Leigh, M. Realf, \$30,000 Focused Research Program funding (8/05 – 8/06) and \$15,000 Institute for Sustainable Technology and Development funding (8/06 – 8/07).
13. Sponsorships totaling \$1500 from Delta Airlines and the National Association of Environmental Engineers for the ECLIPS Product Re-X Workshop (June 21, 2006).
14. INSEAD R&D Grant No. 2520-160R, €11,400, 1/05 - 3/05, “Capacity Investment and Financial Hedging.”
15. INSEAD R&D Grant No. 2520-144R, €11,400, 8/04 - 10/04, “Assortment Planning: The Effectiveness of Category Advisor Arrangements.”
16. INSEAD R&D Grant No. 2520-036 PRD, €11,400, 11/03 -1/04, “Supply Chain Collaboration at Barclay’s.”
17. INSEAD R&D Grant No. 2520-012PRD, €5,700, 4/03 -5/03, “Decision Support for Supply Chain Management.”
18. INSEAD-PwC High Performance Supply Chains Initiative (€60,000), 9/02-8/04.
 - a. Supply Chain Collaboration: Forecast Collaboration in FMCG Supply Chains: A benchmarking study
 - b. Supply Chain Collaboration: Outsourcing (with E. Yücesan)

VII. HONORS AND AWARDS

1. Inducted as 2017 Distinguished Fellow of the INFORMS Manufacturing and Service Operations Management Society
2. 2017 Faces of Inclusive Excellence, Georgia Institute of Technology
3. 2016 Ernest Scheller Jr. Award for Service Excellence, Scheller College of Business
4. Winner of 2015 Management Science Best Paper in Operations Management Award (for papers published in 2012-2014); with V. Agrawal, M. Ferguson and V. Thomas
5. 2015 Women of Distinction Award, Georgia Institute of Technology
6. 2010 Brady Family Award for Faculty Research Excellence, College of Management, Georgia Institute of Technology.

7. 2008 Meritorious MSOM Service Award (awarded for contributions to the *Manufacturing and Service Operations Management* Journal).
8. First prize in the Wickham Skinner Competition for the best unpublished paper award presented at the 2006 POMS conference for “Category Captainship: Outsourcing Retail Category Management.”
9. First prize in the Wickham Skinner Competition for the best unpublished paper presented at the 2005 POMS conference for “The Effect of Competition in Recovery Strategies.”
10. Finalist, Euro/INFORMS 2003 Management Science Strategic Innovation Prize on *Market Coordination in Supply Chain Management* with “Market Segmentation and Production Technology Selection for Remanufacturable Products.”
11. Finalist, Euro/INFORMS 2003 Management Science Strategic Innovation Prize on *Market Coordination in Supply Chain Management* with “Investing in Forecast Collaboration.”
12. First prize in the 1999 MSOM student paper competition for the paper titled “Analysis of a Production-Inventory system with Stationary Demand and Dynamic Forecast Updates.”
13. Koç Foundation Outstanding Achievement Scholarship, 1988 – 1992.
14. İş Bankası Award for top 64 students (out of approximately 300,000) in the Turkish National University Entrance Examination, 1988.