



Phone: 734.615.8621  
Email: anupindi@umich.edu

## RESEARCH INTERESTS & TEACHING

**Research Interests:** Value Chain Innovation; Technology and Business Innovation; Global Supply Chain Management; Supply Chain Risk Management, Strategic Sourcing; Sustainability; Supply Contracts; Inventory Management; Lean Operations; Operations-Marketing Interfaces, Healthcare Product and Service Delivery in Low and Middle Income Countries.

**Teaching:** MBA, Executive MBA, Global MBA: Operations Management, Global Supply Chain Management, Strategic Sourcing, Innovations in Global Health Delivery, Sustainable Operations and Supply Chain Management; Executive Programs in Lean Operations and Supply Chain Management; PhD: Sustainable Supply Chains, Global Health Delivery.

## EXPERIENCE

### Colonel William G. and Ann C. Svetlich Professor of Operations Research and Management

9/2016 – present

Faculty Director, Center for Value Chain Innovation  
Co-Director, Technology and Business Information Forum

### David B. Hermelin Professor of Business Administration

1/2012 – 8/2016

Stephen M. Ross School of Business at the University of Michigan, Ann Arbor, MI

### Visiting Scholar

Graduate School of Business, Stanford University  
Indian School of Business, Hyderabad (India)

Fall 2010  
Winter 2011

### Professor of Technology & Operations

7/2010 – present

Faculty Director, Master of Supply Chain Management  
Michael R. and Mary Kay Hallman Fellow

7/2006 – 6/2015  
7/2003 – 12/2011

Stephen M. Ross School of Business at the University of Michigan, Ann Arbor, MI

### Faculty Associate

Institute for Health Policy Innovation  
Center for Positive Organizations  
GlobalREACH, University of Michigan  
Erb Institute of Global Sustainable Enterprise

2017 – present  
2015 – present  
2012 – present  
2011 – present

### Associate Professor of Operations Management

7/2002 – 7/2010

Stephen M. Ross School of Business at the University of Michigan, Ann Arbor, MI

### Associate Professor of Operations Management

6/2000 – 8/2002

Stern School of Business, New York University, New York, NY

### Assistant Professor of Operations Management

9/1993 – 8/2000

J.L. Kellogg Graduate School of Management, Northwestern University, Evanston, IL.

### Member, Technical Services, Texas Instruments, Inc., Dallas, TX

6/1988 – 8/1988

### Software Engineer, American Cimflex Corporation, Pittsburgh, PA

1/1987 – 8/1987

### Software Engineer, Wipro Systems Limited, Bangalore, India

8/1984 – 8/1987

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## EDUCATION

- Ph.D (Management of Manufacturing and Automation)** May, 1993  
*Carnegie Mellon University, Pittsburgh, PA.*  
William Larimer Mellon Fellowship 1987-91 and Texas Instruments Fellowship, 1988-89.
- M.S. (Management of Manufacturing and Automation)** May, 1989  
*Carnegie Mellon University, Pittsburgh, PA.*
- M.E. (Automation)** June, 1984  
*Indian Institute of Science, Bangalore, India.*
- B.E.(Hons.) Electrical and Electronics Engineering** June, 1982  
*Birla Institute of Technology and Science, Pilani, India.*

## PUBLICATIONS

1. with S. Devalkar and A. Sinha, "Dynamic Risk Management of Commodity Operations: Model and Analysis", Latest version April 2017. *Journal of MSOM*, 20(2), 317-332.
2. with R. Shretta, B. Johnson, S. Smith, S. Doubmia, D. de Sanvigny, and P. Yadav, "Costing the supply chain for delivery of ACT and RDTs in the public sector in Benin and Kenya", *Malaria Journal*. 2015, 14:57 doi:10.1186/s12936-014-0530-1.
3. with M. Pai and P. Yadav, "Tuberculosis control needs a complete and patient-centric solution", *The Lancet*, Vol 2, Issue 4, April 2014 (Published Online March 24, 2014. [http://dx.doi.org/10.1016/S2214-109X\(14\)70198-6](http://dx.doi.org/10.1016/S2214-109X(14)70198-6))
4. with T. London, "Using the base-of-the-pyramid perspective to catalyze interdependence-based collaborations", *Proceedings of the National Academy of Sciences*; July 31, 2012, vol. 109, no. 31, 12338–12343.
5. with S. Devalkar and A. Sinha, "Integrated Optimization of Procurement, Processing, and Trade of Commodities", *Operations Research*, Vol. 59, No. 6, November-December 2011, pp. 1369-1381.
6. with T. London and S. Sheth, "Creating Mutual Value: Lessons from Ventures Serving Base of the Pyramid Producers", *Journal of Business Research*, Volume 63, No. 6, June 2010. [A shorter version of this paper appeared in the Academy of Management 2009 Conference proceedings.]
7. with Li Jiang, "Consumer-Driven versus Retailer-Driven Search: Channel Performance and Implications". *Journal of M&SOM* Vol. 12, No. 1 pp.102-119 Winter 2010.
8. with M. Aundhe and M. Sarkar, "Healthcare Delivery Models and the Role of Telemedicine". In *Indian Economic Superpower: Fiction or Future (edited volume)*, World Scientific, Singapore, Spring 2009.
9. with Li Jiang, "Capacity Investment, Flexibility and Market Competition under Demand Uncertainty". *Management Science* Vol.54, No.11, November 2008.
10. with K. Anand and Y. Bassok, "The Strategic Use Inventories in Vertical Contracts", *Management Science* Vol.54, No.10, October 2008.
11. with Y. Bassok, "Analysis of Supply Contracts with Commitments and Flexibility", *Naval Research Logistics*, Volume 55, No. 5, June 2008.
12. with S. Gupta and M. Venkataramanan, "Managing Variety on the Retail Shelf: Using Scanner Data to Rationalize Assortments". Working Paper. In *Retail Supply Chain Management: Quantitative Models and Empirical Studies* edited by N. Agrawal and S. Smith, Springer New York, Fall 2008.
13. with S. Sivakumar, "ITC's e-Choupal: A Platform Strategy for Rural Transformation", in *Business Approaches for Helping the World's Poor: Solutions that Create Social and Economic Value*, Eds. Brooke Barton, Herrero Gustavo, John Quelch, Kash Rangan, Jossey-Bass, December 2006.
14. with S. Sivakumar, "Supply Chain Reengineering in Agri-Business – A Case study of ITC's e-Choupal", in *Supply Chain Issues in Emerging Economies* by Hau L. Lee and Chung-Yee Lee (Editors), Elsevier-Springer, 2006.

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15. with D. C. Barnes and Y. Bassok, "Optimized Delivery Leadtime / Inventory Placement in a Two-Stage Production Distribution System", *European Journal of Operations Research*, Volume 174, Issue 3, November 2006, pages 1664-1684.
  16. with D. C. Barnes and Y. Bassok, "Coordination and Flexibility in Supply Contracts with Options", *Journal of Manufacturing and Service Operations Management*, Volume 4, Number 3, Summer 2002.
  17. with Y. Bassok, and E. Zemel, "A General Framework for the Study of Decentralized Distribution Systems", *Journal of Manufacturing and Service Operations Management*, Volume 3, No. 4, Fall 2001. [This paper is based on an earlier working paper titled "Study of Decentralized Distribution Systems: Part I - A General Framework", July 1999]
  18. with K. Anand and Y. Bassok, "Inventories versus Incentives in a Supplier-Retailer Contract", *MSOM Conference Proceedings*, University of Michigan, Ann Arbor, June 2000.
  19. with Y. Bassok, "Centralization of Stocks: Retailers vs. Manufacturer", *Management Science*, Volume 45 No. 2, 1999.
  20. with Y. Bassok and R. Akella, "Single Period Multi-Product Inventory Models with Substitution", *Operations Research*, Volume 47 (4), 1999.
  21. with M. Dada and S. Gupta, "Estimation of Consumer Demand with Stock-out based Substitution: An Application to Vending Machine Products", *Marketing Science*, Volume 17, No. 4, 1998.
  22. with Y. Bassok, "Supply Contracts with Quantity Commitments and Stochastic Demand", in *Quantitative Models in Supply Chain Management* by S. Tayur, M. Magazine, and R. Ganeshan (Eds.), Kluwer Academic Publishers, 1998.
  23. with Y. Bassok, "Approximations for Multi-product Contracts with Stochastic Demands and Business Volume Discounts: Single Supplier Case", *IIE Transactions*, Volume 30, Number 8, August 1998.
  24. with S. Tayur, "Managing Stochastic Multi-Product Systems: Model, Measures, and Analysis", *Operations Research*, Volume 46 (Supplement), Number 3, May-June 1998.
  25. with Y. Bassok, "Analysis of Supply Contracts with Total Minimum Commitments", *IIE Transactions*, Volume 29, No. 5, May 1997.
  26. with T.E. Morton and D. Pentico, "The Non-Stationary Stochastic Lead-Time Inventory Problem: Near-Myopic Bounds, Heuristics, and Testing", *Management Science*, Vol. 42, No.1, 1996.
  27. with Y. Bassok, "Analysis of Supply Contracts with Total Minimum Commitments and Flexibility", in *Proceedings of the 2<sup>nd</sup> International Symposium on Logistics*. University of Nottingham, UK, June 1995.
  28. with R. Akella, "Diversification Under Supply Uncertainty", *Management Science*, Vol. 39, No. 8, 1993.
  29. with H. Gurnani and R. Akella, "Control of Batch Processing Systems in Semiconductor Manufacturing Systems", *IEEE Transactions in Semiconductor Manufacturing*, Volume 5, No. 4, November, 1992.

### **SUBMITTED / UNDER REVISION / WORKING PAPERS**

1. with I. Wang and J. Li, "Manufacturing and Regulatory Barriers to Generic Drug Competition: A Structural Model Approach". March 2018. Submitted to *Management Science*.
2. with J. Chestnut and H.S. Ahn, "Giving It Away to Increase Profits? Price Discrimination and the Effect of Free Goods". December 2017. Submitted to *Management Science*.
3. with I. Wang and J. Li, "Risky Suppliers or Risky Supply Chains? An Empirical Analysis of Sub-tier Supply Network Structure on Firm Performance in the High-Tech Sector", June 2017. Under review *Management Science*.
4. with T. London, "Revisiting value chain initiatives: Insights from the Base of the Pyramid Perspective", Report submitted to the U.S. Agency for International Development under the terms of Agreement No. M0-022. April 2011.
5. with S. Sivakumar, "ITC's e-Choupal: A Platform Strategy for Rural Transformation (unabridged)", October 2005. [Paper presented at *Business Solutions for Alleviating Poverty (BSAP) Conference*, Social Enterprise Initiative, Harvard Business School, December 1-3, 2005.]
6. with M. Dada and S. Gupta, "Consumer Demand with Stock-out Based Substitution: Estimation and Empirical Application", Working paper. (An abridged version of this appeared in *Marketing Science*, Volume 17, No. 4.)
7. with R. Akella, "An Inventory Model with Commitments", Working paper. 1993.

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## BOOKS

1. with S. Chopra, S. Deshmukh, Jan van Mieghem, and E. Zemel, *Managing Business Process Flows: Principles of Operations Management*, 3<sup>rd</sup> Edition, Pearson Prentice Hall, Inc. 2012. (A text for MBA Operations Core class).

## TEACHING MATERIAL / PRACTICE ARTICLES / SOFTWARE

1. with A. Hoffman, D. Partin, A. Ward, and L. Sawitsky, "Dell: Upcycling Ocean Plastic Through Supply Chain Innovation". Teaching case. In Production, WDI Publishing.
2. "Moving Up in the World", Medical Device Developments, June 2015 (<http://www.medicaldevice-developments.com/features/featuremoving-up-in-the-world-the-challenges-of-manufacturing-4621502/>)
3. with A. Chavali, "Delivering Health Care in Rural India: ITC-CARE experience", Teaching case. Case 1-429-319. June 2015. William Davidson Institute/GlobaLens Publishing.
4. "PT Kizone: Adidas Battles Allegations of Shirking Responsibility to Workers (A)", Teaching case. Case 1-429-306. Oct 2014. William Davidson Institute/GlobaLens Publishing.
5. "PT Kizone: Adidas Battles Allegations of Shirking Responsibility to Workers (B)", Teaching case. Case 1-429-403. Oct 2014. William Davidson Institute/GlobaLens Publishing.
6. "Operation ASHA: An Effective, Efficient and Scalable Model for Tuberculosis Treatment", Teaching case. Case 1-429-339. March 2013 (revised March 2014). William Davidson Institute/GlobaLens Publishing.
7. with K. Sikarwar, "Voluntary Producer Responsibility – Carton Recycling in the US", Teaching case. Case 1-429-338. April 2013 (Revised March 2014). William Davidson Institute/GlobaLens Publishing.
8. "Teaching Note: Voluntary Producer Responsibility – Carton Recycling in the US", March 2014. TN 1-429-338 William Davidson Institute/GlobaLens Publishing.
9. Interview with Joe Bozich, CEO of Knights Apparel. November 2013. Center for Positive Organizations, Ross School of Business at the University of Michigan.
10. Interview with Alan Murray, CEO of Next Foods Inc. December 2013. Center for Positive Organizations, Ross School of Business at the University of Michigan.
11. with E. Svaan, "Note on the Toyota Production System", note 1-429-245. September 2013. William Davidson Institute/GlobaLens Publishing.
12. with Colm Fay, "Abt Associates: Scaling Indoor Residual Spraying for Malaria Prevention in Africa", Teaching case. February 2013. Case 1-429-272. William Davidson Institute/GlobaLens Publishing.
13. "Cisco SCRM in action: 2011 Tōhoku earthquake – Video interview with case protagonist". February 2013.
14. "Cisco SCRM in action: 2011 Tōhoku earthquake", Teaching case. February 2013. Case 1-429-284. William Davidson Institute/GlobaLens Publishing.
15. "Supply Chain Risk Management at Cisco: H1N1 Response – Video interview with case protagonists". December 2009.
16. "Supply Chain Risk Management at Cisco: H1N1 Response", Teaching case. December 2009. Case 1-428-881. William Davidson Institute/GlobaLens Publishing.
17. "Boeing – The Fight for Fasteners", Teaching case. November 2009. Case 1-428-787. William Davidson Institute/GlobaLens Publishing.
18. "Maritime Transportation: The Global System of Shipping and Ports". Technical Note. December 2008. Note 1-428-712. William Davidson Institute/GlobaLens Publishing.
19. with S. Devalkar, *Nova Incorporated*, Ross School of Business, Teaching case. January 2008.
20. with S. Devalkar, "Managing the Financial Supply Chain", Technical Note. Ross School of Business, November 2007.
21. *Glenview Supply Company*, Ross School of Business, Teaching case, September 2006.
22. with Boyd Smythe, "Call Centers and Rapid Technological Change", Technical Note, June 1997 (Kellogg #7-106-001); distributed by Harvard Business School Publishing.
23. with Y. Bassok, and E. Zemel, "BeerNET: Remote Group Software for Studying Supply Chain Dynamics (A User Manual)", Stern School of Business, New York University, New York, NY 10012.

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24. *with* M. Panley, “ChipCo: Outsourcing MRO Management”, Stern School of Business, New York University, New York, NY 10012.
  25. “Ordering Multiple Products with Demand Uncertainty under Capacity Constraints”, Teaching Note, Kellogg Graduate School of Management, Northwestern University, July 1997.
  26. *with* Julie Hodges and Peter Walter, “Automated Storage and Retrieval Systems: An Overview of User Considerations and Business Applications”, Teaching Note, May 1997.
  27. *with* E. Zemel, “GreaseX, Inc.”, Summer 1996 (A Microsoft Excel based simulation experiment for process control).

## **WORK-IN-PROGRESS**

### **RESEARCH**

1. *with* I. Wang and J. Li, “Understanding Key Determinants of Drug Shortage (Tentative)”.
2. *with* I. Barton, N. Gounden, A. L.V. Avanceña, “Unintended consequences and hidden obstacles in medicine access in Africa (Tentative)”.
3. *with* A. Karnani, S. Ramaswamy, and A. Chatterjee, “US Healthcare cost structure – a critical review (Tentative)”.
4. *with* N. Pathy and P. Yadav, “Modeling to Understand the Epidemiological Impact and Market Impact of Harmonized Regimens for MDR-TB”.
5. *with* M. Wilson, D. Hutton and P. Yadav, “Optimizing resource allocation across multiple interventions for malaria prevention and control and enhancing overall cost-effectiveness”.
6. *with* S. Devalkar and A. Sinha, “Integrated Optimization of Procurement, Processing and Trade of Commodities in a Network Environment”.
7. *with* S. Sivakumar, “A Platform Strategy approach to Rural Transformation”.
8. *with* Y. Bassok, and E. Zemel, “Allocation Mechanisms for Decentralized Distribution Systems: Duopoly and Oligopoly Models”. Working paper.

### **TEACHING MATERIAL / CURRICULUM DEVELOPMENT**

1. *with* M. Barg and L. So, “Clean by Design (Tentative)”. Teaching case. In Progress.
2. *with* E. Doyle and A. Wunsch, “MDining: Local Sourcing (Tentative)”. Teaching case. In Progress.
3. *with* N. DeHoratious, “Skyward – Developing a Drone Ecosystem (Tentative)”. Teaching case. In Progress.
4. Interview with Kohl Gill, Founder / CEO of LaborVoices. November 2014 (in production) Center for Positive Organizations, Ross School of Business at the University of Michigan
5. “ITC Paperboard Turnaround: Triple Bottom Line Approach (Tentative)”. Teaching case. In progress.

## **DOCTORAL / MASTERS STUDENTS**

1. Iris Wang (co-chair with Jun Li). Univ. of Michigan. Expected completion June 2018; first placement, Assistant Professor, University of Illinois, Urbana Champaign.
2. Jacob Chestnut. Univ. of Michigan. Expected Completion December 2018; first placement, Assistant Professor, Cornell University.
3. 2017: Caroline Lucas, Kaitlyn Klingensmith, Edwin Willig, and Kimberley Irby; advisor for “Understanding Private Sector Risk to Climate Change and Designing Guidance for Engagement”, Masters Practicum, School of Environment and Sustainability, Univ. of Michigan.
4. 2014: Michael Rockett (MBA/MS Erb Institute); advisor for “Sustainable Supply Chain Investment: Is There Evidence to Support Keurig Green Mountain’s Livelihoods Theory of Change?”, Masters Practicum, School of Natural Resources and Environment, Univ. of Michigan.
5. 2011: Sripad Devalkar (PhD; co-chair with Amitabh Sinha); Univ. of Michigan. First appointment Indian School of Business, India
6. 2011: Arthur Peterson, Jamie Mikkelsen, Lisa Ingmarsson, and Christina Bosch (MBA/MS Erb Institute); thesis co-advisor for Ford Supply Chain Carbon Mapping, Univ. of Michigan.
7. 2008: Sanjeev Kumar (PhD committee), Univ. of Michigan.
8. 2007: Li Jiang (PhD; Chair), Univ. of Michigan. First appointment at The Hong Kong Polytechnic University, Hong Kong

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9. 2004: Monique Joy Barry (M.S. in Resource Ecology and Management; thesis co-advisor), Univ. of Michigan.
  10. 1996: Sanjay Melkote (Ph.D committee), Northwestern Univ.
  11. 1996: Dawn-Barnes Schuster (Ph.D., co-chair with Yehuda Bassok), Northwestern University. First appointment at University of Chicago.
  12. 1995: Ronald Lembke (Ph.D committee), Northwestern Univ.

## GRANTS

- General Motors Company. 2017. Sub-Tier Network Structure Research Collaboration. (\$87,291; co-PI with Jun Li)
- NSF: Gaining Visibility into Supply Network Risks with Large-Scale Textual Analysis. (\$177,030; co-PI with Jun Li)
- TB Modeling and Analysis Consortium. 2014. Modeling to understand the epidemiological impact and market impact of harmonized regimens for MDR-TB (\$97,500; co-PI with N. Pathy and P. Yadav)
- Mcube. University of Michigan. 2013. Optimizing resource allocation across multiple interventions for malaria prevention and control and enhancing overall cost-effectiveness. (\$60,000; co-PI with M. Wilson and D. Hutton)
- Tauber Institute of Global Operations. 2012. Social Issues in Supply Chains.(\$5,000)
- Erb Institute of Sustainable Enterprise. 2012. Voluntary Producer Responsibility (\$10,000)
- Bill and Melinda Gates Foundation. 2010. Base of the Pyramid Perspective. (\$10,000 with T. London).
- US Agency for International Development. 2009. Comparing Base of the Pyramid and Value Chain Approaches to Poverty Alleviation (\$102,782 with T. London)

## SERVICE

### PROFESSIONAL

**President, College of Supply Chain Management, Production and Operations Management Society, 2014-2016.**

**Associate Editor** for *Operations Research* (2001-2018), *Journal of Manufacturing and Service Operations Management* (2006-2018), *Naval Research Logistics* (2003-2010), *Management Science* (2000-2008), *OR Letters* (2002-04), *IIE Transactions: Scheduling and Logistics* (1998-).

**Senior Editor** for the *Journal of Manufacturing and Service Operations Management* (2002-2005), *Production and Operations Management* (2009-2017).

**Guest Editor** for *Sadhana: Special Issue on Competitive Manufacturing Systems*. *Sadhana* is the Academy Proceedings in Engineering Sciences and published by the Indian Academy of Sciences, Bangalore, India.

**Ad hoc Referee for:** *Management Science*, *Operations Research*, *IIE Transactions*, *European Journal of Operations Research*, *Journal of Production and Operations Management*, *Journal of Operations Management*, *Journal of Flexible Manufacturing Systems*, *Naval Research Logistics*, *Information Systems Research*, *Journal of Manufacturing and Service Operations Management*.

**Vice-President** for Meetings, MSOM Society, 2002-2003

Invited to be a **Specialist Referee** for the Hong Kong Research Grants Council (RGC).

### UNIVERSITY OF MICHIGAN

**Faculty Director**, Center for Value Chain Innovation (CVCI). 2017 – present.

**Co-Director**, Technology and Business Information Forum, Ross School of Business (2014-)

**Faculty Director**, Master of Supply Chain Management (MSCM) program. 2007 – 2015.

**Member (2011-12), Vice-Chair (2012-13), Chair (2013-2015)** President's Advisory Committee on Labor Standards and Human Rights at the University of Michigan.

**Member, Executive Committee**, Tauber Institute of Global Operations, 2012-2015.

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**Member, Executive Committee**, Ross School of Business, 2011 – 2013.

**Advisor to the William Davidson Institute for South Africa Logistics Excellence and Transportation Training Initiative (SALETTI)**: A project to assist University of Johannesburg to develop a new Master program in Supply Chain Management; funded by USAID, 2009-2011.

**Mentor for UM African Presidential Scholars Programs (UMAPS)**; mentoring Leah Z.B. Ndanga from Feb – August 2009.

**Member, ABL Committee** (2013-15); **Curriculum Committee** (2005-2009); **MAP Committee** (2009-2010).

**Co-ordinator, Hosmer Lunch**, 2003-05.

**Member, Rackham Pre-Doctoral Fellowship Awards Committee (Division III)**, 2004 & 2005.

## EXECUTIVE EDUCATION

1. Taught session on **Innovations in Risk Management** in the **Global Supply Chain Innovation Program** at the Ross School of Business Executive Program, September 2017.
2. Presentation on Supply Chain Management for the **SABIT Program, US Department of Commerce**, March 2017.
3. Taught **custom programs** in: **Supply Chain Management** for Dell Inc., GE, Wilson Sporting Goods, Raymonds Group (India); **Lean Logistics** for Schlumberger.
4. Taught a session on Industry 4.0 for the **CDB Industrial Upgrading & Financial Innovation 2015** program.
5. Faculty co-director (with Brian Talbot) of **Leadership in Plant Operations**, University of Michigan (2004-2008).
6. Taught in **Supply Chain Management** programs at the University of Michigan and the Kellogg School of Management.
7. Taught in the **Lean Logistics Certificate** program at the University of Michigan
8. Taught the **Operations Management** module for the AT Kearney management fundamentals program (2002-04)
9. **Executive MBA Program**, Stern School of Business, New York University.

## ADDITIONAL INFORMATION

**Recipient 2015 CORE (Contribution to Research Environment) Award**, Ross School of Business

**Member of Advisory Board & Executive Committee** *People that Deliver Initiative* for Global Health (2012-2015)

**Member of the Board**, *The William Davidson Institute* (2014-)

**Technical Advisor**, *Vital Ocean* (2017-)

**Member Technical Committee and Working Group, American National Standard** on “Supply Chain Risk Management: A Compilation of Best Practices” (2012-14)

**Member Fair Labor Association Agricultural Working Group** (2015-)

**Member**: The Institute for Operations Research and Management Sciences (INFORMS); Manufacturing and Service Operations Management Society (MSOM); Production and Operations Management Society (POMS), Council for Supply Chain Management Professionals (CSCMP); Institute of Supply Management (ISM); Supply Chain Risk Leadership Council (SCRLC).

Invited speaker to the **Digital Manufacturing and Design Innovation Institute (DMDII) Supply Chain Workshop**, Chicago (2017).

Invited to the **Global Health Supply Chain Summit**, Zaragoza, Spain (2008, 2009), USC, Los Angeles (2011).

Program Committee **Global Health Supply Chain Summit**, Addis Ababa, Ethiopia (2013), Copenhagen, Denmark (2014), Dakar, Senegal (2015), Dar es Salaam, Tanzania (2016), Accra, Ghana (2017).

Invited to the **Thought Leaders Roundtable on Supply Chain Management** (Harvard University, August 2000; INSEAD, August 2001; Como, Italy, July 2002; Santa Fe, New Mexico, July 2003; Woodstock, Vermont, August 2004; Heidelberg,

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Germany, July 2005; St. Louis, July 2006; Kobe, Japan, June 2007; Madrid, Spain, June 2008; San Jose, Costa Rica, 2009, Breda, Netherlands, 2010), Beijing (2011), Istanbul (2012), Los Angeles (2013), Helsinki (2014), Seoul (2015), Cincinnati (2016).

Invited speaker at the **International Workshop on IT Enabled Manufacturing, Logistics and Supply Chain Management**, Bangalore, India (December 15-16, 2003), **9<sup>th</sup> Logistics Conference**, Istanbul, Turkey (March 2007).

Invited to **Longitudes 04: Mapping the New World of Synchronized Commerce**, April 28-29, 2004, **Longitudes 05: Synchronizing Global Networks for Growth**, April 27-28, 2005. (Longitudes is jointly hosted by UPS and Harvard Business School Publishing).

Invited speaker at the **First East Coast Roundtable on Operations Research in E-Business**, MIT, March 2001.

Invited speaker for **World Trade Magazine webinar series** on Supply Chain Management (2006 & 2007).

**Recipient of Operations Research Meritorious Service Award**, 1996, 2002, 2007.

**Consulting and Speaking Engagements:** GE Aviation, Cummins, PT Sewu Segar Nusantara (Indonesia), Chrysler, ABInBev, Cummins, Inc., Acumen Fund, Schlumberger, Boeing Commercial Airplanes, GE Energy, Cordis Corp., Dell, Intel, Target Corp., USG Corporation, Wal-Mart, K-Mart, IBM, Digital Knowledge Associates, RealTimeData Inc., McDonald's Corp., Budget Group Inc., Deloitte & Touche, National Association of Chain & Drug Stores, Kellogg Alumni Association of Chicago, Carnegie Bosch Institute, ITC Group International Business Division (India), Tata Refractories Limited (India).

**Board of Advisors:** Distributed World Power Inc., Pasadena, CA (2009-10).

## REFERENCES

Available upon request.