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I. CURRENT POSITION

Associate Professor
Robert E. McDonough School of Business, Georgetown University

II. EDUCATION

1987 B.S.E., Computer Engineering, College of Engineering, University of Michigan
1993 M.B.A., Amos Tuck School of Business, Dartmouth College
2001 Ph.D., Business Administration, Walter A. Haas School of Business, University of California, Berkeley

III. ACADEMIC EMPLOYMENT

08/00-08/07 Assistant Professor
Robert E. McDonough School of Business, Georgetown University
08/07-present Associate Professor
Robert E. McDonough School of Business, Georgetown University

IV. INDUSTRY EMPLOYMENT

07/87-08/91 Senior Software Engineer Dearborn, MI
Motorola Incorporated – Automotive and Industrial Electronics Group
05/92-08/92 Financial Associate Boca Raton, FL
International Business Machines (IBM) Corporation
09/93-08/95 Manager Boston, MA
Braxton Associates (Strategy consulting division of Deloitte & Touche Consulting Group
LLP)

V. EXTERNAL AFFILIATIONS

09/05-present Special Government Employee White Oak, MD
Center for Drug Evaluation Research (CDER) and Center for Devices and Radiological
Health (CDRH), U.S. Food and Drug Administration (FDA)

VI. PUBLICATIONS

Books

1. Innovation in Global Industries: U.S. Firms Competing in a New World (2008) (co-editor with D.C. Mowery). National Academy Press: Washington, DC.

Refereed Journal Articles

1. Macher, J.T., D.C. Mowery and D.A. Hodges (1998) "Reversal of fortune? The Recovery of the U.S. Semiconductor Industry." *California Management Review* **41**(1): 107-136.
2. Macher, J.T., D.C. Mowery and T.S. Simcoe (2002) "eBusiness and the Semiconductor Industry Value Chain: Implications for Vertical Specialization and Integrated Semiconductor Manufacturers." *Industry and Innovation* **9**(3): 155-181.
3. Macher, J.T. and D.C. Mowery (2003) "'Managing' Learning by Doing: An Empirical Study in Semiconductor Manufacturing." *Journal of Product Innovation Management* **20**(5): 391-410.
4. Henisz, W.J. and J.T. Macher (2004) "Firm- and Country-Level Tradeoffs and Contingencies in the Evaluation of Foreign Investment: The Semiconductor Industry, 1994-2002." *Organization Science* **15**(5): 537-554.
5. Macher, J.T. and B.D. Richman (2004) "Organizational Responses to Discontinuous Innovation: A Case Study Approach." *International Journal of Innovation Management* **8**(1): 87-114.
6. Macher, J.T. (2006) "Technological Development and the Boundaries of the Firm: A Knowledge-Based Examination in Semiconductor Manufacturing." *Management Science* **52**(6): 826-843.
7. Macher, J.T. and C.S. Boerner (2006) "Experience and Scale and Scope Economies: Tradeoffs and Performance in Development." *Strategic Management Journal* **27**(9): 845-865.
8. Macher, J.T., D.C. Mowery and A. Di Minin (2007) "The 'Non-Globalization' of Innovation in the Semiconductor Industry." *California Management Review* **50**(1): 217-242.
9. Burton, M., J.T. Macher and J.W. Mayo (2007) "Understanding Participation in Social Programs: Why Don't Households Pick up the Lifeline?" *B.E. Journal of Economic Analysis and Policy* **7**(1) (Topics): Article 1.
10. Macher, J.T. and B.D. Richman (2008) "Transaction Cost Economics: An Assessment of Empirical Research in the Social Sciences." *Business and Politics* **10**(1): Article 1.
11. Macher, J.T. and D.C. Mowery (2009) "Measuring Dynamic Capabilities: Practices and Performance in Semiconductor Manufacturing." *British Journal of Management* **20**: 41-62.
12. Weber, L., Mayer, K.J. and J.T. Macher (2010) "An Analysis of Extendibility and Early Termination Provisions: The Importance of Framing Duration Safeguards." (forthcoming, *Academy of Management Journal*).
13. Macher, J.T., J.M. Mayo and J.A. Nickerson (2011) "Regulator Heterogeneity and Endogenous Efforts to Close the Information Asymmetry Gap: Evidence From FDA Regulation." (forthcoming, *Journal of Law and Economics*).

Edited Book Chapters

1. Macher, J.T., D.C. Mowery and D.A. Hodges (1999) "Semiconductors." In D.C. Mowery (ed.), U.S. Industry in 2000: Studies in Competitive Performance. National Academy Press: Washington, DC: 245-286.
2. Boerner, C.S., J.T. Macher, and D.J. Teece (2001) "Organizational Learning in Economics." In M. Dierkes, A. Berthoin-Antal, J. Child and I. Nonaka (eds.), Handbook of Organizational Learning and Knowledge. Oxford University Press: New York, NY: 89-117.

3. Macher, J.T. and D.C. Mowery (2004) "Vertical Specialization and Industry Structure in High Technology Industries." In J.A.C. Baum and A.M. McGahan (eds.), Business Strategy over the Industry Lifecycle – Advances in Strategic Management, **21**: 317-356.
4. Macher, J.T., D.C. Mowery and A. Di Minin (2008) "Semiconductors." In J.T. Macher and D.C. Mowery (eds.), Innovation in Global Industries: U.S. Firms Competing in a New World. National Academy Press: Washington, DC: 101-140.
5. Leiblein, M.J. and J.T. Macher (2009). "The Problem Solving Perspective: A Strategic Approach to Understanding Environment and Organization," in B.S. Silverman and J.A. Nickerson (eds.), The Economic Institutions of Strategy – Advances in Strategic Management, Volume 26: forthcoming.

Other Publications

1. Macher, J.T. (2000) Review of Capital For Our Time: The Economic, Legal, and Management Challenges of Intellectual Capital. N. Imparato (ed.). In *Journal of Economic Literature* **38**(3): 678-680.
2. Macher, J.T. and C.S. Boerner (2005) "Development and the Boundaries of the Firm: A Knowledge-Based Examination in Drug Development." *Best Paper Proceedings 2005, Academy of Management Annual Meeting*.
3. Macher, J.T. (2006) Comments on "Offshoring in the Semiconductor Industry: A Historical Perspective," by C. Brown and G. Linden in S.M. Collins and L. Brainard (eds.), Brookings Trade Forum 2005: Offshoring White-Collar Work: 323-328.

VII. WORKING PAPERS – UNDER SUBMISSION

1. Beard, T.R., J.T. Macher and J.M. Mayo (2009) "'Can you Hear Me Now?' Exit, Voice and Loyalty Under Increasing Competition." (under review, *International Journal of Industrial Organization*).
2. Macher, J.T. and C.S. Boerner (2008) "Technological Development and Firm Boundaries: A Knowledge-Based Examination in Drug Development." (revise and resubmit, *Strategic Management Journal*).
3. Macher, J.T., J.W. Mayo and M. Schiffer (2009) "The Influence of Firms on Government," (revise and resubmit, *B.E. Journal of Economic Analysis and Policy*).

VIII. GRANTS AND FELLOWSHIPS

1. SEMI Grant for "eBusiness in the Semiconductor and Semiconductor Equipment Industries," \$25,000. Joint with D.C. Mowery. (2001).
2. International SEMATECH Grant for "Economics of the 21st Century Semiconductor Industry," \$200,000. Joint with D.C. Mowery. (2000-2002).
3. Center for Business and Public Policy, McDonough School of Business, Georgetown University Grant for "An Investigation Into Pharmaceutical Manufacturing Strategies And Their Relationship To FDA Oversight And Enforcement Actions," \$30,000. (2002-2004).

IX. CONFERENCE PRESENTATIONS

1. "Reversal of fortune? The Recovery of the U.S. Semiconductor Industry" (with David C. Mowery)
 - STEP Board Conference on America's Industrial Resurgence: Sources and Prospects, National Research Council, Washington DC (December 1997).

2. "Best Practices in Product and Process Introduction: Evidence from the Semiconductor Industry"
 - CCC Doctoral Colloquium, Harvard University, Boston, MA (March 1998).
3. "Vertical Disintegration and Process Innovation in Semiconductor Manufacturing: Foundries vs. Integrated Producers"
 - Western Economic Association 74th Annual International Conference, San Diego, CA (July 1999)
 - INFORMS Fall 1999 Conference, Philadelphia, PA (November 1999)
 - Wharton Technology Mini-Conference, Philadelphia, PA (March 2001)
4. "Mitigating the Time to Market and Performance Tradeoff: Innovation and Knowledge Management in New Technology Introductions," (with Nile W. Hatch)
 - Strategic Management Society 19th Annual International Conference, Berlin, Germany (October 1999)
 - University of Utah-BYU Winter Strategy Conference, Provo, UT (March 2002)
 - Academy of Management Conference, New Orleans, LA (August 2004)
5. "'Managing'" Learning by Doing: An Empirical Study in Semiconductor Manufacturing," (with David C. Mowery)
 - Strategy Research Forum, Northwestern University, Evanston, IL (May 2001)
 - Batten Young Scholars Forum, The College of William and Mary, Williamsburg, VA (July 2001)
 - Academy of Management Conference, Washington, DC (August 2001)
6. "Technology, Competition and Politics: Plant Location Decisions in the Global Semiconductor Industry, 1995-2000," (with Witold J. Henisz)
 - Academy of Management Conference [All-Academy Panel], Washington, DC (August 2001)
 - Academy of International Business Annual Meeting, San Juan, Puerto Rico (June 2002)
 - International Strategy Conference, University of Michigan Business School, Ann Arbor, MI (October 2002)
7. "Transaction Cost Economics: An Assessment of Empirical Research in the Social Sciences," (with Christopher S. Boerner)
 - American Economics Association Meeting, Atlanta, GA (January 2002)
 - Academy of International Business Annual Meeting, Monterey, CA (July 2003)
8. "Experience, and Scale and Scope Economies: Tradeoffs and Performance in Drug Development," (with Christopher S. Boerner)
 - Academy of Management Conference, Denver, CO (August 2002)
 - Strategy Research Forum, Washington University in St. Louis, St. Louis, MO (May 2003)
 - Keith Pavitt Innovation Conference, Science and Technology Policy Research, University of Sussex, Brighton U.K. (November 2003)
9. "Measuring Dynamic Capabilities: Practices and Performance in Semiconductor Manufacturing," (with David C. Mowery)
 - BYU-Utah Winter Strategy Conference, Park City, UT (March 2004)
 - College on Organization Science Conference, Hanover, NH (November 2004)
 - The Practice of Dynamic Capabilities Workshop, Lancaster, UK (May 2006)
10. "An Investigation into Pharmaceutical Manufacturing Strategies and Their Relationship to FDA Oversight and Enforcement Actions," (with Jackson A. Nickerson)
 - Academy of Management Conference, New Orleans, LA (August 2004)

11. "Alliance Organization and Technological Performance: Disaggregating the Causes and Consequences of Ownership and Colocation," (with Michael J. Leiblein)
 - Academy of Management Conference, New Orleans, LA (August 2004)
 - Wharton Technology Mini-Conference, Philadelphia, PA (April 2005)
 - Atlanta Competitive Advantage Conference, Atlanta, GA (June 2005)
 - Academy of Management Conference, Honolulu, HI (August 2005)
 - Strategic Management Society, Orlando, FL (October 2005)
12. "Technological Development at the Boundaries of the Firm: A Knowledge-Based Examination in Drug Development," (with Christopher S. Boerner)
 - INFORMS Fall Conference, Denver, CO (October 2004)
 - Strategy Research Forum, Emory University, Atlanta, GA (April 2005)
 - Academy of Management Conference, Honolulu, HI (August 2005)
 - INFORMS Conference, Seattle, WA (November 2007)
13. "Do Small Firms Benefit Less From Alliance Activity Than Large Firms? Evidence From The Semiconductor Industry," (with Michael J. Leiblein)
 - Atlanta Competitive Advantage Conference, Atlanta, GA (June 2006)
 - Academy of Management Conference, Atlanta, GA (August 2006)
 - Strategic Management Society, Vienna, Austria (October 2006)
 - Roundtable for Engineering Entrepreneurship Research, Atlanta, GA (December 2006)
 - Wharton Technology Mini-Conference, Philadelphia, PA (April 2007)
14. "Innovation in Global Industries: U.S. Firms Competing in a New World," (with David C. Mowery)
 - STEP Board Conference on the Competitiveness and Workforce Needs of U.S. Industry, National Research Council, Washington DC (April 1997)
 - Sloan Foundation Industry Studies Annual Conference, Boston, MA (May 2008)
15. "Exploring the Information Asymmetry Gap: Evidence From FDA Investigators," (with John W. Mayo and Jackson A. Nickerson)
 - Academy of Management Conference, Philadelphia, PA (August 2007)
16. "The Problem Solving Perspective: A Strategic Approach to Understanding Environment and Organization," (with M.J. Leiblein)
 - The Economic Institutions of Strategy Conference, Toronto, Canada (September 2008)

X. TEACHING EXPERIENCE

Undergraduate Courses

McDonough School of Business, Georgetown University

MGMT 283: Strategic Management – Spring 2001-2003 (7 sections in total)

Average Rating on Overall Quality of Instructor: 4.83 out of 5.0 (school mean 4.34)

Evening and Full-Time MBA Courses

McDonough School of Business, Georgetown University

STRT 550: Microeconomics – Fall 2000-2006 (22 sections in total)

Average Rating on Overall Quality of Instructor: 4.82 out of 5.0 (school mean 4.20)

McDonough School of Business, Georgetown University

STRT 570: Strategic Management – Fall 2008 (2 sections in total)

Average Rating on Overall Quality of Instructor: 4.73 out of 5.0 (school mean 4.20)

International Executive MBA Courses

McDonough School of Business, Georgetown University

EMBA 839: Technology and Knowledge Management – Summer 2001-2009 (6 sections in total)

Average Rating on Overall Quality of Instructor: 4.65 out of 5.0 (school mean 4.18)

McDonough School of Business, Georgetown University

EMBA 812: Microeconomics – Summer 2002, 2004 (2 sections in total)

Average Rating on Overall Quality of Instructor: 4.86 out of 5.0 (school mean 4.21)

Global Executive MBA Courses

McDonough School of Business, Georgetown University

GEMBA 812: Industry Economics – Fall 2008-2009 (2 sections in total)

Average Rating on Overall Quality of Instructor: 4.79 out of 5.0 (school mean 4.20)

XI. ACADEMIC HONORS

Eta Kappa Nu Electrical Engineering Honor Society (1986)

Tau Beta Pi Engineering Honor Society (1987)

B.S.E. with Honors (1987)

Edward Tuck Scholar (1992 and 1993)

M.B.A. with High Distinction (1993)

Henry J. Hayase Citizenship Award (2000)

XII. RESEARCH AND TEACHING AWARDS

Faculty Speaker, International Executive MBA Program Commencement, McDonough School of Business, Georgetown University (2003)

Dean's Distinguished Faculty Research Award, McDonough School of Business, Georgetown University (2006)

XIII. PROFESSIONAL ACTIVITIES

1. Editorial Board, *International Journal of Strategic Change Management*; *Strategic Management Journal*.
2. Regular reviewer, *Academy of Management Journal*; *Management Science*; *Organization Science*; *Strategic Management Journal*.
3. Occasional reviewer, *California Management Review*; *Industrial and Corporate Change*; *Journal of Industrial Economics*; *Journal of International Business Studies*; *Journal of Law, Economics and Organization*; *Journal of Product Innovation Management*.
4. Organizing Committee, ISNIE Annual Conference (2009)
5. Member, Academy of Management; International Society for New Institutional Economics; Strategic Management Society