

# CURRICULUM VITAE

*Richard N. Langlois*

November 2009

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## Education.

<b>Ph.D.</b>	Stanford University	1981	Engineering-Economic Systems.
<b>M.S.</b>	Stanford University	1976	Engineering-Economic Systems.
<b>M.S.</b>	Yale University	1975	Astrophysics.
<b>B.A.</b>	Williams College	1974	Physics (honors) and English literature (highest honors).

## Academic Experience.

- 9/91-date **Professor of Economics**, University of Connecticut (and, by courtesy, Professor of Management and Professor of Agricultural and Resource Economics).
- 1/05-date **Adjunct (honorary) Professor in Strategy and Business History**, Department of Management, Politics, and Philosophy, Copenhagen Business School, Denmark.
- 9/02-6/03 **Senior Fellow**, Department of Management, The Wharton School, University of Pennsylvania.
- 10/87-9/91 **Associate Professor of Economics**, University of Connecticut.
- 9/83-9/87 **Assistant Professor of Economics**, University of Connecticut.
- 9/81-9/83 **Adjunct Assistant Professor**, Department of Economics, New York University.  
**Associate Research Scientist**, C.V. Starr Center for Applied Economics, New York University.
- Research Assistant Professor**, Center for Science and Technology Policy, Graduate School of Business Administration, New York University.
- 9/80-9/81 **Instructor**, Department of Economics, New York University.  
**Assistant Research Scientist**, Center for Science and Technology Policy, New York University.

## Honors and Awards

- University of Connecticut Alumni Association 2007 Faculty Excellence Award in Research (Humanities/Social Sciences).
- Co-recipient of the 2006 Schumpeter Prize of the International Joseph A. Schumpeter Society.
- Provost's Research Excellence Award, University of Connecticut, 2006.
- Named Adjunct (Honorary) Professor in Strategy and Business History, Department of Management, Politics, and Philosophy, Copenhagen Business School, January 7, 2005, Copenhagen, Denmark.
- Grillo Family Faculty Award for Research, Department of Economics, University of Connecticut, 2004.
- Chancellor's Research Fellowship, 2002-2003.
- Voted "Most Appreciated Faculty Member" by the Association of Graduate Economics Students, Department of Economics, University of Connecticut, 1997-98 and 2000-01.
- Newcomen Award for the best paper in *Business History Review*, 1992.

## Short-term visits.

- Department of Industrial Economics and Strategy, Copenhagen Business School, Denmark, June 1996 and August 1997.
- Department of Economics, University of Strathclyde, Glasgow, Scotland, June-July, 1997.
- Université Lumière/Lyon 2 and the Maison Rhône-Alpes des Sciences de l'Homme, Lyon, France, January, 1994.
- Department of Economics and Management, University College, University of New South Wales, Australia, July-August 1992.

## Advisory and editorial positions.

- North American co-editor, *Journal of Institutional Economics*.
- Member, advisory board, Danish Research Unit in Industrial Dynamics (DRUID), Copenhagen Business School and Aalborg University (1996-2008).
- Member, Board of Management, International Joseph A. Schumpeter Society.
- Member, editorial board, *Journal of Evolutionary Economics*.
- Member, International Editorial Board, *Industry and Innovation*.
- Member, editorial board, Series on the Economics of Science, Technology, and Innovation, Kluwer Academic Publishers.
- Contributing Editor, *The Independent Review*.
- Member, advisory board, *Advances in Austrian Economics*.
- Associate Editor, *Review of Austrian Economics*.
- Member, Scientific Committee, *Journal des Economistes et des Etudes Humaines*.
- Member, Scientific Council, *Economie et Institutions*.

## Highlights of recent professional activities.

- Invited participant, Searle Research Roundtable on 'The Limits of Antitrust Revisited,' Northwestern University School of Law, October 29-30, 2009, Chicago.
- Endowed Lecture on Joseph Schumpeter, Engineering Program and Department of Economics, Union College, October 1, 2009, Schenectady, New York.
- Invited speaker, Symposium on Joseph Schumpeter: His Work and Legacy, Minda de Gunzburg Center for European Studies, April 18, 2008, Harvard University.
- Invited participant, International Workshop on Marshall and the Marshallians on Industrial Economics, Hitotsubashi University, March 15-16, 2008, Tokyo, Japan.
- Invited participant, Kyoto International Conference on Evolutionary Dynamics of Business Groups in Emerging Economies, Kyoto University and Doshisha University, November 26-28, 2007, Kyoto, Japan.
- Invited speaker, 7th International Symposium on Evolutionary Economics, "Evolutionary Theory, Self-Reproduction and Economic Development," Institute of Economics, Russian Academy of Science, September 14-15, 2007, Pushchino, Russia.
- Keynote lecturer, international workshop on "Internal Organisation, Cooperative Relationships among Firms and Competitiveness," January 19-20, 2007, Lucca, Italy.
- Invited lecturer, European Summer School in the New Institutional Economics, May 15-20, 2006, Cargèse, Corsica.
- Delivered two days of lectures on the economics of organization at Beijing Jiaotong University, March 22 and 24, 2005, Beijing, China.
- Director, Intensive course in institutional economics, Fifth Trento Summer School, Programme in Adaptive Economic Dynamics, University of Trento, June 28-July 9, 2004, Trento, Italy.
- Delivered the Graz Schumpeter Lectures, June 3-8, 2004, Graz, Austria.
- Invited participant, National Science Foundation workshop on "Science of Design: Software-Intensive Systems," November 2-4, 2003, Airlie, Virginia.
- Presenter and panelist, Leverhulme conference on "Digital Transformations: ICT's Impact on Productivity: Economies, Industries and Firms," London Business School, October 1, 2003.
- Keynote speaker, international conference on "The Evolution of Institutions and the Knowledge Economy," October 4-5, 2002, Debrecen, Hungary.
- Keynote speaker, Second Brazilian Seminar on the New Institutional Economics, March 21-23, 2001, Campinas, Brazil.
- Faculty speaker, first annual Social Science Research Council-MacArthur Foundation graduate student workshop, August, 7-8, 1998, Airlie, Virginia.
- Invited speaker, Economic Outlook Conference, Asia Pacific Economic Cooperation Forum (APEC), May 16, 1998, Xiamen, China.
- Keynote address, annual meeting of the European Association for Research in Industrial Economics (EARIE), September 5, 1995, Juan-les-Pins, France.
- "Book launch" of Langlois and Robertson, *Firms, Markets, and Economic Change*, Institute of Economic Affairs, June 29, 1995, London.

## Publications.

### *Books and Monographs.*

Richard N. Langlois, *The Dynamics of Industrial Capitalism: Schumpeter, Chandler, and the New Economy*. The Graz Schumpeter Lectures 2004. London: Routledge, 2007. Japanese translation in process from Keio University Press. **Co-recipient of the 2006 Schumpeter Prize of the International Joseph A. Schumpeter Society.**

Richard N. Langlois, Tony Fu-Lai Yu, and Paul L. Robertson, eds., *Alternative Theories of the Firm*. Cheltenham: Edward Elgar, three volumes, 2003.

Raghu Garud, Arun Kumaraswamy, and Richard N. Langlois, eds., *Managing in the Modular Age: Architectures, Networks and Organizations*. Oxford: Blackwell Publishing, 2003. (Simultaneously in hardcover and paperback.)

Richard N. Langlois and Paul L. Robertson, *Firms, Markets, and Economic Change: A Dynamic Theory of Business Institutions*. London: Routledge, 1995. (Simultaneously in hardcover and paperback. Electronic edition 2002.) Spanish translation as *Empresas, Mercados y Cambio Económico*. Barcelona: Proyecto A Ediciones, 2000. Japanese translation, NTT Publishing, 2004.

Don Lavoie, Howard Baetjer, William Tulloh, and Richard Langlois, *Component Software: A Market Perspective on the Coming Revolution in Software Development*. Special Research Report, Patricia Seybold Group, Boston, April 1993.

Richard N. Langlois, Thomas A. Pugel, Carmela S. Haklisch, Richard R. Nelson, and William G. Egelhoff, *Microelectronics: An Industry in Transition*. London: Unwin Hyman, 1988.

Richard N. Langlois, ed., *Economics as a Process: Essays in the New Institutional Economics*. New York: Cambridge University Press, 1986. (Paperback edition, 1989.)

Herbert I. Fuschfeld and Richard N. Langlois, eds., *Understanding R&D Productivity*. Elmsford, New York: Pergamon Press, 1982. Russian translation as *Éffektivnost' nauchnykh issledovanií i razrabotok*. Moscow: Ékonomika, 1986.

Herbert I. Fuschfeld, Richard N. Langlois, and Richard R. Nelson, *The Changing Tide: Federal Support of Civilian Sector R&D*. Center for Science and Technology Policy, Graduate School of Business Administration, New York University, November 1981.

### *Articles Published or in Press.*

*A. Theory of the firm, organizational boundaries, and technology.*

“Economic Institutions and the Boundaries of Business Groups,” in Asli M. Colpan, Takashi Hikino, and James R. Lincoln, eds., *Oxford Handbook of Business Groups*. Oxford: Oxford University Press, forthcoming.

"Of Hackers and Hairdressers: Modularity and the Organizational Economics of Open-source Collaboration" (with Giampaolo Garzarelli), *Industry & Innovation* **15**(2): 125-143 (April 2008).

"The Entrepreneurial Theory of the Firm and the Theory of the Entrepreneurial Firm," *Journal of Management Studies* **44**(7) 1107-1124 (November 2007).

"The Secret Life of Mundane Transaction Costs," *Organization Studies* **27**(9): 1389–1410 (2006). (Invited "Peripheral Vision" feature.)

"Competition through Institutional Form: the Case of Cluster Tool Standards," in Shane Greenstein and Victor Stango, eds., *Standards and Public Policy*. New York: Cambridge University Press, 2006, pp. 60-86.

"Chandler in a Larger Frame: Markets, Transaction Costs, and Organizational Form in History," *Enterprise and Society* **5**(3): 355-375 (September 2004).

"Strategy as Economics versus Economics as Strategy," *Managerial and Decision Economics* **24**(4): 283-290. (June-July 2003).

"The Vanishing Hand: the Changing Dynamics of Industrial Capitalism," *Industrial and Corporate Change* **12**(2): 351-385 (2003), reprinted in Mie Augier and David J. Teece, eds., *Fundamentals of Business Strategy*. London: SAGE Publications, 2007. Italian translation in *Annali di storia dell'impresa* **14**: 59-110 (2003). Spanish translation in *Libertas* [Buenos Aires: ESEADE] **42**: 235-301 (May 2005).

"Cognitive Comparative Advantage and the Organization of Work: Lessons from Herbert Simon's Vision of the Future," *Journal of Economic Psychology* **24**: 187-207 (2003).

"Introduction to Alternative Theories of the Firm" (with Tony Fu-Lai Yu and Paul L. Robertson), in Richard N. Langlois, Tony Fu-Lai Yu, and Paul L. Robertson, eds., *Alternative Theories of the Firm*. Cheltenham: Edward Elgar, three volumes, 2003.

"Introduction: Managing in the Modular Age: Architectures, Networks, and Organizations" (with Raghu Garud and Arun Kumaraswamy), in Raghu Garud, Arun Kumaraswamy, and Richard N. Langlois, eds., *Managing in the Modular Age: Architectures, Networks and Organizations*. Oxford: Blackwell, 2002, pp. 1-11.

"Commentary on 'Networks and Innovation in a Modular System'" (with Paul L. Robertson) in Raghu Garud, Arun Kumaraswamy, and Richard N. Langlois, eds., *Managing in the Modular Age: Architectures, Networks and Organizations*. Oxford: Blackwell Publishers, 2002, pp. 101-113.

"Modularity in Technology and Organization," *Journal of Economic Behavior and Organization* **49**(1): 19-37 (September 2002), reprinted in Nicolai Foss and Peter Klein, eds., *Entrepreneurship and the Theory of the Firm*. Cheltenham: Edward Elgar, 2002.

“Digital Technology and Economic Growth: the History of Semiconductors and Computers,” in Benn Steil, David Victor, and Richard R. Nelson, eds., *Technological Innovation and Economic Performance*. Princeton: Princeton University Press for the Council on Foreign Relations, 2002, pp. 265-284.

“Organizations and Language Games” (with Roger Koppl), *Journal of Management and Governance* 5(3-4): 287-305 (2001).

“Technological Standards, Innovation, and Essential Facilities: Toward a Schumpeterian Post-Chicago Approach,” in Jerry Ellig, ed., *Dynamic Competition and Public Policy: Technology, Innovation, and Antitrust Issues*. New York: Cambridge University Press, 2001, pp. 193-228.

“Standards, Modularity, and Innovation: the Case of Medical Practice” (with Deborah A. Savage), in Raghu Garud and Peter Karnøe, eds., *Path Dependence and Path Creation*. Hillsdale: Lawrence Erlbaum, 2001, pp. 149-168.

“Knowledge, Consumption, and Endogenous Growth,” *Journal of Evolutionary Economics* 11(1): 77-93 (January 2001), reprinted in Ulrich Witt, ed., *Escaping Satiation: the Demand Side and Economic Growth*. Berlin: Springer-Verlag, 2001, pp. 97-113. Translated into Russian and reprinted in Vladimir Maevsky, ed., *Selected Articles from Journal of Evolutionary Economics*. Moscow: Editions “Delo” for the Institute of Economics, Russian Academy of Science.

“Strategy and Circumstance: the Response of American Firms to Japanese Competition in Semiconductors, 1980-1995” (with W. Edward Steinmueller), *Strategic Management Journal* 21: 1163-1173 (2000), reprinted in Constance E. Helfat, ed., *The Strategic Management Society Blackwell Handbook of Organizational Capabilities*. Oxford: Blackwell Publishing, 2003, pp. 326-340.

“Capabilities and Vertical Disintegration in Process Technology: The Case of Semiconductor Fabrication Equipment,” in Nicolai J. Foss and Paul L. Robertson, eds., *Resources, Technology, and Strategy*. London: Routledge, 2000, pp. 199-206.

“The Evolution of Competitive Advantage in the Worldwide Semiconductor Industry, 1947-1996” (with W. Edward Steinmueller), in David C. Mowery and Richard R. Nelson, eds., *The Sources of Industrial Leadership*. New York: Cambridge University Press, 1999, pp. 19-78.

“Scale, Scope, and the Reuse of Knowledge,” in Sheila C. Dow and Peter E. Earl, eds., *Economic Organization and Economic Knowledge: Essays in Honour of Brian J. Loasby*. Cheltenham: Edward Elgar, 1999, pp. 239-254.

“The Coevolution of Technology and Organization in the Transition to the Factory System,” in Paul L. Robertson, ed., *Authority and Control in Modern Industry*. London: Routledge, 1999, pp. 45-72.

“Capabilities and Governance: the Rebirth of Production in the Theory of Economic Organization” (with Nicolai J. Foss), *Kyklos* **52**(2): 201-218 (1999), reprinted in Richard N. Langlois, Tony Fu-Lai Yu, and Paul L. Robertson, eds., *Alternative Theories of the Firm*. Cheltenham: Edward Elgar, 2002, Volume I.

“The Organization of Consumption” (with Metin M. Coşgel), in Marina Bianchi, ed., *The Active Consumer: Novelty and Surprise in Consumer Choice*. London: Routledge, 1998, pp. 107-121.

“Personal Capitalism as Charismatic Authority: the Organizational Economics of a Weberian Concept,” *Industrial and Corporate Change* **7**: 195-214 (1998).

“Schumpeter and Personal Capitalism,” in Gunnar Eliasson and Christopher Green with Charles McCann, eds., *Microfoundations of Economic Growth: A Schumpeterian Perspective*. Ann Arbor: University of Michigan Press, 1998, pp. 57-82.

“Capabilities and the Theory of the Firm,” in Nicolai J. Foss and Brian J. Loasby, eds., *Economic Organization, Capabilities and Co-ordination: Essays in Honour of G.B. Richardson*. London: Routledge, 1998, pp. 183-203.

“Transaction Costs, Production Costs, and the Passage of Time,” in Steven G. Medema, ed., *Coasean Economics: Law and Economics and the New Institutional Economics*. Dordrecht: Kluwer Academic Publishers, 1997, pp. 1-21.

“Cognition and Capabilities: Opportunities Seized and Missed in the History of the Computer Industry,” in Raghu Garud, Praveen Nayar, and Zur Shapira, eds., *Technological Innovation: Oversights and Foresights*. New York: Cambridge University Press, 1997, pp. 71-94.

“Cognition, Redundancy, and Learning in Organizations” (with Pierre Garrouste), *Economics of Innovation and New Technology* **4**: 287-299 (1997).

“Spinning Off and Spinning On(?): The Federal Government Role in the Development of the U.S. Computer Software Industry” (with David C. Mowery), *Research Policy* **25**: 947-966 (1996).

“The Federal Government Role in the Development of the American Software Industry: An Assessment” (with David C. Mowery), chapter 3 in David C. Mowery, ed., *The International Computer Software Industry: A Comparative Study of Industrial Evolution and Structure*. New York: Oxford University Press, 1996.

“Do Firms Plan?” *Constitutional Political Economy* **6**(3): 247-261 (1995). Author’s translation into French as “La Firme planifie-t-elle?” reprinted in Pierre Garrouste, ed., *Les frontières de la firme*, Paris: Economica, 1997, pp. 61-80. Also translated into Spanish and reprinted as “¿Planifican las empresas?” *Libertas* [Buenos Aires: ESEADE] **26**: 47-70 (May 1997).

“Capabilities and Coherence in Firms and Markets,” in Cynthia A. Montgomery, ed., *Resource-based and Evolutionary Theories of the Firm: Towards a Synthesis*. Dordrecht: Kluwer Academic Publishers, 1995, pp. 71-100.

“Innovation, Networks, and Vertical Integration” (with Paul L. Robertson), *Research Policy* **24**: 543-562 (July 1995), reprinted in John Storey, ed., *The Management of Innovation*. Cheltenham: Edward Elgar, 2004.

“Institutions, Inertia, and Changing Industrial Leadership” (with Paul L. Robertson), *Industrial and Corporate Change* **3**(2): 359-378 (1994).

“Business Organization as a Coordination Problem: Toward A Dynamic Theory of the Boundaries of the Firm” (with Paul L. Robertson), *Business and Economic History* **22**(1): 31-41 (Fall 1993), reprinted in Richard N. Langlois, Tony Fu-Lai Yu, and Paul L. Robertson, eds., *Alternative Theories of the Firm*. Cheltenham: Edward Elgar, 2002, Volume III.

“External Economies and Economic Progress: The Case of the Microcomputer Industry,” *Business History Review* **66**(1): 1-50 (Spring 1992), reprinted in William Lazonick and William Mass, eds., *Organizational Capability and Competitive Advantage*. Cheltenham: Edward Elgar (1995). **(Winner of the Newcomen Award for the best article in *Business History Review* in 1992.)**

“Modularity, Innovation, and the Firm: the Case of Audio Components” (with Paul L. Robertson), in Frederick M. Scherer and Mark Perlman, eds., *Entrepreneurship, Technological Innovation, and Economic Growth: Studies in the Schumpeterian Tradition*. Ann Arbor: University of Michigan Press, 1992, pp. 321-342.

“Complexity, Genuine Uncertainty, and the Theory of Organization” (with Michael J. Everett), *Human Systems Management* **11**(2): 67-75 (1992).

“Networks and Innovation in a Modular System: Lessons from the Microcomputer and Stereo Component Industries” (with Paul L. Robertson), *Research Policy* **21**(4): 297-313 (1992), reprinted in Raghu Garud, Arun Kumaraswamy, and Richard Langlois, eds., *Managing the Modular Age: Architectures, Networks and Organizations*. Oxford: Blackwell Publishers, 2002, pp. 78-100, and in Shane Greenstein, ed., *Computing*. Cheltenham: Edward Elgar, forthcoming.

“Transaction-Cost Economics in Real Time,” *Industrial and Corporate Change* **1**(1): 99-127 (1992), reprinted in Nicolai J. Foss, ed., *Resources, Firms, and Strategies: A Reader in the Resource-Based Perspective*. Oxford: Oxford University Press, 1997, pp. 286-305, and in Mie Augier and David Teece, eds., *Fundamentals of Business Strategy*. London: Sage Publications, 2007.

“The Capabilities of Industrial Capitalism,” *Critical Review* **5**(4): 513-530 (Fall 1991).

“Creating External Capabilities: Innovation and Vertical Disintegration in the Microcomputer Industry,” *Business and Economic History* **19**: 93-102 (1990).

“Contract, Competition, and Efficiency,” *Brooklyn Law Review* **55**(3): 831-845 (Fall 1989).

“Explaining Vertical Integration: Lessons from the American Automobile Industry” (with Paul L. Robertson), *Journal of Economic History* **49**(2): 361-375 (June 1989), reprinted in Mark Casson, ed., *The Theory of the Firm*. Cheltenham: Edward Elgar, 1996, and in Nicolai J. Foss, ed., *The Theory of the Firm: Critical Perspectives*. London: Routledge, 1999.

“Economic Change and the Boundaries of the Firm,” *Journal of Institutional and Theoretical Economics* **144**(4): 635-657 (1988), reprinted in Bo Carlsson, ed., *Industrial Dynamics: Technological, Organizational, and Structural Changes in Industries and Firms*. Dordrecht: Kluwer Academic Publishers, 1989; in Geoffrey Hodgson, ed., *The Economics of Institutions*. Cheltenham: Edward Elgar, 1993; and in Richard N. Langlois, Tony Fu-Lai Yu, and Paul L. Robertson, eds., *Alternative Theories of the Firm*. Cheltenham: Edward Elgar, 2002, Volume III.

“Internal Organization in a Dynamic Context: Some Theoretical Considerations,” in M. Jussawalla and H. Ebenfeld, eds., *Communication and Information Economics: New Perspectives*. Amsterdam: North-Holland, pp. 23-49 (1984).

“Industrial Innovation Policy: Lessons from American History” (with Richard R. Nelson), *Science* **219**: 814-818 (18 February 1983), reprinted in Thomas E. Petri *et al.*, eds., *National Industrial Policy: Solution or Illusion?* Boulder: Westview Press, pp. 85-96 (1984), and in Michael L. Tushman and William L. Moore, eds., *Readings in the Management of Innovation*, 2nd ed., Cambridge, Ma.: Ballinger, pp. 661-669 (1988).

*B. Economics of institutions, economic thought, and methodology.*

“Schumpeter and the Obsolescence of the Entrepreneur,” *Advances in Austrian Economics* **6**: 287-302 (2003).

“Kirznerian Entrepreneurship and the Nature of the Firm,” *Journal des Economistes et des Etudes Humaines* **12**(1), March 2002.

“Knowledge and Meliorism in the Evolutionary Theory of F. A. Hayek” (with Müfit Sabooglu), in Kurt Dopfer, ed., *Evolutionary Economics: Program and Scope*. Dordrecht: Kluwer Academic Publishers, 2001, pp. 231-251.

“Rule-following, Expertise, and Rationality: a New Behavioral Economics?” in Kenneth Dennis, ed., *Rationality in Economics: Alternative Perspectives*. Dordrecht: Kluwer Academic Publishers, 1998, pp. 55-78, reprinted in Massimo Egidi and Salvatore Rizzello, eds., *Cognitive Economics*. Cheltenham: Edward Elgar, 2004.

“When Do Ideas Matter? A Study in the Natural Selection of Social Games” (with Roger Koppl), *Advances in Austrian Economics*, Volume 1, 1994, pp. 81-104..

“What Is Evolutionary Economics?” (with Michael J. Everett), chapter 2 in Lars Magnusson, ed., *Evolutionary and Neo-Schumpeterian Approaches to Economics*. Dordrecht: Kluwer Academic Publishing, 1994, pp. 11-47.

“Frank Knight on Risk, Uncertainty, and the Firm: A New Interpretation” (with Metin Coşgel), *Economic Inquiry* **31**: 456-465 (July 1993).

“Optimization, Rule Following, and the Methodology of Situational Analysis” (with László Csontos), in Uskali Mäki, Bo Gustafsson, and Christian Knudsen, eds., *Rationality, Institutions, and Economic Methodology*. London: Routledge, 1993, pp. 113-132.

“Orders and Organizations: Toward an Austrian Theory of Social Institutions,” in Bruce Caldwell and Stephan Böhm, eds., *Austrian Economics: Tensions and New Directions*. Dordrecht: Kluwer Academic Publishers, 1992, pp. 165-83.

“Fritz Machlup and Marginalism: A Reevaluation” (with Roger Koppl), *Methodus* 3(2): 86-102 (December 1991).

“What Was Wrong with the ‘Old’ Institutional Economics? (And What Is Still Wrong with the ‘New?’)” *Review of Political Economy* 1(3): 272-300 (November 1989). Translated into Danish and reprinted in Christian Knudsen, ed., *Institutionalism i Samfundsvidenskaberne*. Copenhagen: Samfundslitteratur, 1989, pp. 9-43. Also reprinted in Wojciech W. Gasparski, J. Lee Auspitz, Marek K. Mlicki, and Klemens Szaniawski, eds., *Praxiologies and the Philosophy of Economics*. New Brunswick: Transaction Books, 1992, pp. 389-420, and in Sandye Gloria-Palermo, Peter Boettke, and Stephan Böhm, eds., *Modern Austrian Economics*, Volume 3, London: Pickering and Chatto, 2002.

“Are Economic Models Applicable to Politics?” *Economia delle Scelte Pubbliche/Journal of Public Finance and Public Choice* 1988(2): 83-93 (Summer 1988).

“Coherence and Flexibility: Social Institutions in a World of Radical Uncertainty,” in Israel Kirzner, ed., *Subjectivism, Intelligibility, and Economic Understanding: Essays in Honor of the Eightieth Birthday of Ludwig Lachmann*. New York: New York University Press, pp. 171-191 (1986), reprinted in Sandye Gloria-Palermo, Peter Boettke, and Stephan Böhm, eds., *Modern Austrian Economics*, Volume 3, London: Pickering and Chatto (2002).

“The New Institutional Economics: An Introductory Essay,” in R. N. Langlois, ed., *Economics as a Process: Essays in the New Institutional Economics*. New York: Cambridge University Press, pp. 1-25 (1986). (Translated into Japanese for a volume edited by Ken-ichi Imai and published by NTT Shuppan.)

“Rationality, Institutions, and Explanation,” in R. N. Langlois, ed., *Economics as a Process: Essays in the New Institutional Economics*. New York: Cambridge University Press, pp. 225-55 (1986), reprinted in Sandye Gloria-Palermo, Peter Boettke, and Stephan Böhm, eds., *Modern Austrian Economics*, Volume 3, London: Pickering and Chatto (2002), and in Massimo Egidi and Salvatore Rizzello, eds., *Cognitive Economics*. Cheltenham: Edward Elgar, 2004.

“Knowledge and Rationality in the Austrian School: An Analytical Survey,” *Eastern Economic Journal* 9(4): 309-330 (1985), reprinted in John Cunningham Wood and Ronald N. Woods, eds., *Friedrich A. Hayek: Critical Assessments*. Volume 4. Critical Assessments of Contemporary Economists. London: Routledge, pages 118-40 (1991), and in Massimo Egidi and Salvatore Rizzello, eds., *Cognitive Economics*. Cheltenham: Edward Elgar, 2004.

“From the Knowledge of Economics to the Economics of Knowledge: Fritz Machlup on Methodology and on the ‘Knowledge Society,’” *Research in the History of Economic Thought and Methodology* **3**: 225-235 (1985).

“Systems Theory, Knowledge, and the Social Sciences,” in Fritz Machlup and Úna Mansfield, eds., *The Study of Information: Interdisciplinary Messages*, New York: John Wiley, pp. 581-600 (1983).

“The Market Process: An Evolutionary View,” *Market Process* **1**(2), Summer 1983, reprinted in Peter J. Boettke and David L. Prychitko, eds., *The Market Process: Essays in Contemporary Austrian Economics*. Cheltenham: Edward Elgar, 1994.

“Systems Theory and the Meaning of Information,” *Journal of the American Society for Information Science* **33**(6): 395-399 (November 1982).

“Austrian Economics as Affirmative Science,” in Israel M. Kirzner, ed., *Method, Process, and Austrian Economics: Essays in Honor of Ludwig von Mises*, Lexington, Ma: D.C. Heath, pp. 75-84 (1982).

“Cost-Benefit Analysis, Environmentalism, and Rights,” *The Cato Journal* **2**(1): 279-300 (Spring 1982).

### ***Book reviews and shorter pieces:***

"Comment on 'Technological Revolutions and the Evolution of Industrial Structures' (by Giovanni Dosi, Alfonso Gambardella, Marco Grazzi, and Luigi Orsenigo)," *Capitalism and Society* **3**(2): Article 7 (2008). Available at: <http://www.bepress.com/cas/vol3/iss2/art7>.

"Innovation Processes and Industrial Districts" (with Paul L. Robertson and David Jacobson), to appear in Giacomo Becattini, Marco Bellandi, and Lisa De Propriis, eds., *Handbook of Industrial Districts*. Cheltenham: Edward Elgar, in preparation.

Book review of Thomas K. McCraw, *Prophet of Innovation: Joseph Schumpeter and Creative Destruction*, EH.Net Economic History Services, November 14, 2007.

“Industrial Economics,” entry for *The Elgar Companion to Alfred Marshall*, edited by Tiziano Raffaelli, Marco Dardi, and Giacomo Becattini. Cheltenham: Edward Elgar, 2006, pp. 658-663.

Entry on Fritz Machlup, in Ross Emmett, ed., *Biographical Dictionary of American Economists*. London: Continuum International Publishing, 2006.

Entry on “Information,” in Jens Beckert and Milan Zafirovsky, eds., *International Encyclopedia of Economic Sociology*. London: Routledge, 2005.

“Comment on ‘Group Selection and Methodological Individualism: Compatible and Complementary’ by Douglas Glen Whitman,” *Advances in Austrian Economics*. **7**:261-265 (2004)

Entry on the Computer Industry for the *Oxford Encyclopedia of Economic History* (Joel Mokyr, editor), 2003.

“Strategy and the Market Process: Introduction to the Special Issue,” *Managerial and Decision Economics* 22: 163-168 (2001), special issue on “Strategy and the Market Process” (R. N. Langlois, guest editor).

Foreword to Tony Fu-Lai Yu, *Firms, Governments, and Economic Change: An Entrepreneurial Perspective*. Cheltenham: Edward Elgar, 2001.

Entry on Rationality in Economics, *International Encyclopedia of Business & Management*, 2nd edition. London: Thompson Learning, 2001.

Biographical entry in Mark Blaug, ed., *Who's Who in Economics*. Cheltenham: Edward Elgar, third edition, 1999.

Entry on the computer industry in Robert Ferrell and Joan Hoff, eds., Supplement to Scribner's *Dictionary of American History*. Lakeville, CT: American Reference Publishing Co., 1996.

Entries on “The New Institutional Economics,” “The Boundaries of the Firm,” and “Risk and Uncertainty” for Peter J. Boettke, ed., *The Elgar Companion to Austrian Economics*. Cheltenham: Edward Elgar, 1994.

“Bounded Rationality and Behavioralism: A Clarification and Critique,” invited note for a symposium in *The Journal of Institutional and Theoretical Economics* 146(4): 691-695 (December 1990), reprinted in Claude Ménard, ed., *The International Library of the New Institutional Economics*. Cheltenham: Edward Elgar, in preparation.

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