

PROFESSOR ROBERT FORRANT
Department of Regional Economic and Social Development
University of Massachusetts Lowell
Comprehensive Professional Vitae – July 2007

College of Arts and Sciences, Department of Regional Economic and Social Development, Graduate and undergraduate teaching and dissertation and thesis supervision, 1994 to present.

A. EDUCATION AND ACADEMIC QUALIFICATIONS

- Ph.D. History, University of Massachusetts Amherst, September 1994.
- B.A., 1970, M.A. 1972, in History, Northeastern University.
- Dissertation: *Skill Was Never Enough: American Bosch, Union Local 206, and the Decline of Metalworking in Springfield, Massachusetts 1900 - 1970*. University of Massachusetts, Amherst, August 1994.

B. PROFESSIONAL ACTIVITIES

1. Honors and Awards

University of Massachusetts President's Award for Public Service, 1998.

UMass Lowell Department of Regional Economic and Social Development Teaching Excellence Award, 2006-2007, 2002-2003, 1998-1999.

2. Fellowships, Conferences and Workshop Participation

- 2007 Inventing America: Lowell and the Industrial Revolution, Tsongas Industrial History Center
Lecturer, Summer. Program funded by National Endowment for the Humanities.
- 2007 Springfield Public Schools Socials Studies Professional Development Workshop, 'The Way We
Were: Looking at the Post-Second World War Connecticut River Valley,' August 28, 29.
- 2006 Inventing America: Lowell and the Industrial Revolution, Tsongas Industrial History Center
Lecturer, Summer. Program funded by National Endowment for the Humanities.
- 2006 Springfield Public Schools Socials Studies Professional Development Workshop, 'The Way We
Were: Looking at the Post-Second World War Connecticut River Valley,' August 28, 29.
- 2006 'Disappearing Work, Grinding Decline: Springfield, Massachusetts' Struggles to Survive,' New
England Federal Reserve Bank, New England Study Group Lecture, April 6.
- 2005 'Inside and Out: Universities and Education for Sustainable Development,' Worcester
Polytechnic Institute Center for Educational Development & Assessment Presentation,
November 2.
- 2005 'Are Finance Control Boards the Answer to Job Loss, Shrinking Revenues, and Grinding
Decline: The Springfield, Massachusetts and Camden, New Jersey Cases,' Committee on
Industrial Theory and Assessment Conference Presentation, UMass Lowell, October 28.
- 2005 'Springfield Job Loss and the City's Frayed Social Safety Net,' Future of Work in Massachusetts
Conference, University of Massachusetts Boston, April 28.
- 2005 'Greater Springfield Massachusetts Deindustrialization: Staggering Job Loss, A Shrinking
Revenue Base and Grinding Decline,' Massachusetts Institute of Technology Department of
Urban Studies and Planning "Forgotten Cities" seminar series, April 13.

- 2003 'Globalisation and degenerative productive systems: the case of the Connecticut River Valley' Robert Forrant, University of Massachusetts Lowell, Frank Wilkinson, University of Cambridge Paper presented at 'Clusters, Industrial Districts and Firms: The Challenges of Globalisation' in honor of Professor Sebastiano Brusco, September 12-13, 2003, University of Modena, Italy
- 2003 Commentator, Business History Conference on "Regions, Nations and Globalization," panel session, 'Cooperation, Competition and Industrial Policy, June.
- 2002 Commentator, New England Historical Association 2002 conference on April 20, session "Ghosts of Industries Past."
- 2002 Presentation, Urban Affairs Association Conference, Boston, MA., "The University and the Challenges of Sustainable Economic Development."
- 2002 Seminar Paper, University of Massachusetts Amherst Economic History and Development Workshop, "The International Association of Machinists, Pratt & Whitney, and the Struggle for Connecticut's Blue-Collar Future."
- 2001 Research Fellowship, American Antiquarian Society, Kate B. and Hall J. Peterson Fellow, topic: "Manufacturer to Industrial America: Worcester-area Machine Tool Firms and Skill, 1830-1875."
- 2001 Seminar Paper, Hagley Museum and Library Conference Engineering Postwar Industry, "Too Many Bends in the River: The Collapse of the Connecticut River Valley Machine Tool Industry and the Disruption of the Shopfloor Skill Base, 1945-1990."
- 2000 Seminar Presentation, "Providence, Rhode Island: Public Policy, Broad-Based Partnerships and the Transition to the New Economy." For the Organization for Economic Co-operation and Development Territorial Development Service, Regional Review of Bergamo, Italy Benchmark Project, Paris, France.
- 2000 International Working Party on Labour Market Segmentation Conference. "Creative Work Systems in Destructive Markets," with Suzanne Konzelmann, Indiana University. European Work and Employment Research Center, Manchester University, Manchester, England.
- 2000 Industrial Relations Research Association Symposium, Boston, Massachusetts. "Rethinking the Theory and Practice of Enterprise Governance: Labor's Challenges, Labor's Opportunities in the New Economy."
- 1999 *Cambridge Journal of Economics* and the Cambridge University Institute of Employment Rights conference on Economic Efficiency and Social Justice, Cambridge, England. Conference paper presentation, "Between a Rock and a Hard Place: US Industrial Unions and the Lean, Mean Global Economy."
- 1999 Conference discussant, Economic and Social Research Council Center for Business Research at Cambridge University conference on Corporate Restructuring, London, England.
- 1999 Keynote presenter and workshop facilitator, Appalachian Regional Commission Conference "Building on Strengths: Helping Local Economies Become More Competitive," Lexington, Kentucky, January 11-13.
- 1997 Seminar presentation at the Conference on Organizational Integration and Competitive Advantage in the Automobile Industry, "The U.S. Machine Tool Industry and Competitive Advantage." Sponsored by the INSEAD Euro-Asian Center, the Center for Global Partnership of the Japan Foundation, and the Massachusetts Institute of Technology Motor Vehicle Program, the INSEAD Euro-Asia Center, Fontainebleau, France, March 25-27.

- 1997 Next Generation Manufacturing Conference, sponsored by the National Institute of Standards and Technology, the National Science Foundation, the Agility Forum, and the Leaders for Manufacturing Program at the Massachusetts Institute of Technology, "Collaborating for Success: Implementing Next-Generation Manufacturing Actions." Keynote address and workshop presentation, Gaithersburg, Maryland, April 16-17.
- 1997 Tenth Annual Labor Segmentation Conference sponsored by The Higgins Labor Research Center at Notre Dame University seminar presentation: "Machine Tools, Technology, and Worker Skills," April 5.
- 1997 International Metalworkers Federation and International Labour Organization conference: The Machinery Industry: Globalization, Employment and New Enterprise Strategies. Presentation, "The Organizational Failure of the US Machine Tool Industry in the Face of Globalization." Geneva, Switzerland, November 26-28.

3. Non-UML Teaching Activities

Local

Faculty coordinator, Community Sustainable Development Film Series, downtown Lowell, Spring 2005.

Presentation Moses Greeley Parker Lecture Series: "The Twists and Turns of the Greater-Lowell Economy," March 29, 2003, Pollard Library, Lowell, Massachusetts.

"Communities of Scholars—Communities as Classrooms": Teaching American History 2002-2005, faculty historian/instructor to the Tsongas Industrial History Center project funded by the U.S. Department of Education.

Instructor, University of Massachusetts Donahue Institute/Executive Office of Environmental Affairs Community Preservation Institute 2001-2003.

University in the City Scholars Program: co-coordinator with Professor Linda Silka of faculty program to develop curriculum and community-based research activities with faculty and students, 1997 - present. Evaluate and select projects for funding and co-chair scholar meetings. To date some twenty-five scholar projects have been carried out in Lowell with faculty from the Colleges of Engineering, Arts and Sciences, and Management.

University in the City Scholars Program:

- Fall 1997 project to develop mechanism to engage greater numbers of faculty in the scholars program.
- Fall 1998 project to develop a variety of materials useful for instruction of Lowell residents on how an economy works and the various roles that community members can play in community economic development. Instruction provided to Center for Family, Work and Community Immigrant and Refugee Leadership Training program, December 1998.

University of Massachusetts Lowell Work Environment Department Seminar, February 1997:

- "Work Rules, Job Content, and the Struggle For Worker Voice on American Shop-floors."

University of Massachusetts Lowell Center for Industrial Competitiveness Seminar Presenter:

- Robert Forrant and Erin Flynn, Ph.D. candidate, Massachusetts Institute of Technology, "The Manufacturing Modernization Process," Fall 1996.
- Robert Forrant and William Lyons, CEO, Brimfield Precision, Inc., "Brimfield Precision and Continuous Improvement," Fall 1997.

Tsongas Industrial History Center:

- Tsongas Industrial History Center: "Creation of a Nation" Teacher Institute instructor, July 2003, 2002.

- Tsongas Industrial History Center: Interdisciplinary Institute on the American Industrial Revolution, Summer Institute faculty member, August 2001, August 1999, August 1998.
- Staff workshop on 19th century working class formation, September 2001.
- Staff Workshop on 19th Century Managerial Strategies in the Lowell Textile Mills, September 24, 1998.
- Interdisciplinary Institute on the American Industrial Revolution, summer institute faculty member, July 6- 17, 1998.
- Nineteenth Century America: The Second American Revolution, summer institute faculty member, August 19-21, 1997.

Massachusetts Quality Council: “Shop Floor Skills in the Continuous Improvement and Innovation Process,” Westborough, Massachusetts, August 6, 1997.

Springfield Technical Community College: “Teaching All Aspects of An Industry”, a high school teachers week-long academic institute, Summer 1995-1997.

National

Five Colleges Public Schools Partnership-Teaching American History Institute, Summer 2007, 2005, Industrialization, Immigration and Social Movements, Instructor, funded by U.S. Department of Education.

Georgia Institute of Technology School of Public Policy and Economic Development seminar on Industrial Modernization: Policy, Practice, and Evaluation. Seminar presentation: “Industrial Modernization and Small Firms in Perspective,” April 10, 1997.

Contributor and commentator on the state and global economy for numerous media outlets including the *Springfield Union*, *Lowell Sun*, *Boston Globe*, WUML, and WFCR.

International

Researcher, International Labour Organization, ‘Life-long Learning in the Mechanical and Electrical Engineering Industry: Case Studies from the Field’. 2001-2002.

Researcher, Organization for Economic Co-operation and Development Territorial Development Service, Regional Review of Bergamo, Italy Benchmark Project. Spring-Summer 2000.

Researcher on global changes in the metalworking and machine tool industry for European Commission’s Targeted Socio-Economic Research (TSER) Programme on Corporate Governance, Innovation, and Economic Performance in the European Union, William Lazonick, UMass Lowell and Mary O’Sullivan, INSEAD, co-principal investigators. Grant of 830,000 ECU (about \$750,000), with INSEAD as the lead institution in collaboration with STEP Group (Oslo), Wissenschaftszentrum-Berlin, University of Edinburgh, and Bocconi University (Milan).

Economic Development Consultant, Northern Ireland Economic Council, 1998.

Consultant, International Labour Organization and International Metalworkers Federation, Geneva, Switzerland, ongoing.

Consultant, United Nations International Development Organization for manufacturing development projects in Jamaica and Honduras 1993 to 1999.

UMass Lowell Center for Industrial Competitiveness, “Educational Program for Industrial Officers and Manufacturing Modernization Field Agents from Moldova,” World Bank Project, August 1997.

4. Book Series Co-editor:

Work, Health and Environment Series, Baywood Publishing Company.

5. Academic Journals Peer Reviewer

Labor History, New Solutions, Urban Affairs, Cambridge Journal of Economics

6. Editorial Board Member

Labor History, New Solutions

7. WUML Radio Commentator and Lowell Sun monthly columnist

Once monthly 25-minute interview on the state of the Massachusetts economy and monthly essay in Lowell newspaper.

8. Sloan Industry Center, Massachusetts Institute of Technology, Industry Studies Affiliate.

C. RESEARCH/SCHOLARSHIP

1. Books

- 2007 *Skill Was Never Enough: The Rise and Precipitous Decline of the Connecticut River Valley Industrial Corridor*, Baywood Publishers, in the Series, Work, Health and Environment, forthcoming.
- 2006 With Linda Silka, eds. *Inside and Out: Universities and Education for Sustainable Development*, Baywood Publishers.
- 2002 With Jean Pyle, eds., *Globalization, Universities and Issues of Sustainable Human Development*, Edward Elgar Publishing.
- 2001 With Jean Pyle, William Lazonick and Charles Levenstein, eds., *Approaches to Sustainable Regional Development: The Public University in the Regional Economy*, University of Massachusetts Press.

2. Monographs and Journal Symposia

- 2008 Forthcoming. Editor, 4-article special issue of *New Solutions* on community-university partnerships for environmental sustainability.
- 2002 Co-editor with Professor Jean Pyle, 4-article symposium on universities in the global economy in the journal *Development*, 45, (3), 102-29.
- 2001 *Grow Good Jobs in Connecticut: High Tech Manufacturing at the Crossroads*, with Jennifer Zelnick, published by International Association of Machinists District Lodge 91, East Hartford, Connecticut.
- 2001 *Knowledge Sector Powerhouse: Reshaping Massachusetts Industries and Employment During the 1980s and 1990s*, with Philip Moss and Chris Tilly, Commonwealth of Massachusetts Economic Affairs.
- 2001 *Creative Work Systems in Destructive Markets*, with Suzanne Konzelmann, Cambridge University Economic and Social Research Council Center for Business Research Working Papers Series.
- 1998 *Survival of the Flexible in the Global Economy: Employment Security and Shop Floor Reorganization in Two Massachusetts Metalworking Firms*, Sectoral Activities Programme Working Paper, Geneva: International Labour Organization.
- 1997 *Good Jobs and the Cutting Edge: The U.S. Machine Tool Industry and Sustainable Prosperity*, The Jerome Levy Economics Institute Working Paper No. 199.

3. Refereed Journal Articles

- 2007 "Achieving Continuity in the Face of Change in Community-University Partnerships," *International Journal of Community Research and Engagement*, with Linda Silka, et.al. forthcoming
- 2005 "Greater Springfield Massachusetts Deindustrialization: Staggering Job Loss, A Shrinking Revenue Base and Grinding Decline," *New England Journal of Public Policy*, 20 (2) 67-88.
- 2005 "Follow the Work: A Response to Peter Waterman's 'Labor and New Social Movements in a Globalizing World System'," *Labor History*, 46 (2).
- 2004 "Work Systems, Corporate Strategy and Global Markets: Creative Shop Floors or a 'Barge Mentality'?" with Suzanne Konzelmann and Frank Wilkinson, *Industrial Relations Journal*, 35 (3), 216-32.
- 2003 "The Roots of Connecticut River Valley Deindustrialization: The Springfield American Bosch Plant 1940-1975," *Historical Journal of Massachusetts*, Winter, 90-106.
- 2002 "Too Many Bends in the River: The Post-World War II Decline of the Connecticut River Valley Machine Tool Industry," *Journal of Industrial History*, 5 (2), 71-91.
- 2002 "The International Association of Machinists, Pratt & Whitney, and the Struggle for a Blue-Collar Future in Connecticut," *International Review of Social History*, 47, 113-36.
- 2001 "Pulling Together in Lowell: The University and the Regional Development Process," *European Planning Studies*, 9, 615-30.
- 2001 "Neither a sleepy village nor a coarse factory town: Skill in the Greater Springfield Massachusetts Industrial Economy 1800 - 1990," *Journal of Industrial History*, 4, 24-47.
- 2000 "Between a Rock and a Hard Place: US Industrial Unions and the Lean, Mean Global Economy: Unions on the Shop Floor as the Next Century Approaches," *Cambridge Journal of Economics*, 24 (6), 751-69; reprinted in The Institute of Employment Rights Monograph series, *Social Justice and Economic Efficiency*, Oxford University Press, 2000.
- 2000 "Regional Industrial Modernization Strategies: Two Massachusetts Case Studies," with Michael Best, *European Planning Studies*, 8, 211-23.
- 2000 "Global Flexibility - Shop Floor Flexibility: What's a Worker to Do?" *New Solutions*, 9, 231-45.
- 1999 "The Western Massachusetts MechTech Apprenticeship Program: Reconstructing the Metalworking Skill Base for the 21st Century," *New England Journal of Public Policy*, 15, 97-113.
- 1999 "Thinking and Doing, Doing and Thinking: the University of Massachusetts Lowell and the Community Development Process," with Linda Silka, *American Behavioral Scientist*, 42 (5), 808-20.
- 1999 "Skills, Shop Floor Participation and the Transformation of Brimfield Precision, Inc.: Lessons for the Revitalization of the Metal-Working Sector," *Industrial and Corporate Change*, 8, 167-88.
- 1998 "No Longer Just Another Contract Machine Shop: Brimfield Precision, as an Instructive Tale From Industrial America," with Erin Flynn, *Agility and Global Competition*, 2 (3), 37-48.
- 1998 "Seizing Agglomeration's Potential: The Western Massachusetts Metalworking Sector in Transition, 1986- 1996," with Erin Flynn, *Regional Studies*, 32 (3), 209-22.

- 1997 "The cutting-edge dulled: The post-Second World War decline of the United States machine tool industry," *International Contributions to Labour Studies*, 7, 37-58.
- 1997 "Caught in the Switch: Workers, Communities, and the Restructuring of the U.S. Industrial Economy: A Review Essay," *New Solutions*, 7 (4), 82-6.
- 1997 "The Manufacturing Modernization Process: Mediating Institutions and the Facilitation of Firm-Level Change," with Erin Flynn, *Economic Development Quarterly*, 11, 146-65.
- 1996 "'Quality and Selling Price Go Hand in Hand, Like Ham and Eggs, Toast and Butter': American Bosch, Local 206, and the Blunting of Shop-floor Participation 1950-1970," *International Contributions to Labour Studies*, 6, 1-27.
- 1996 "Skilled Workers and Union Organization in Springfield, Massachusetts: The American Bosch Story," *Historical Journal of Massachusetts*, 24, 47-67.

4. Commissioned Articles and Book Chapters

- 2007 "Adaptive Reuse of Buildings: If it is Already Built, Will They Come?" in Elisabeth Hamin, Priscilla Geigis and Linda Silka, Eds. *Preserving and Enhancing Communities: A Guide for Citizens, Planners and Policymakers*, University of Massachusetts Press, 207-18.
- 2007 "Greater-Springfield Deindustrialization, A Shrinking Economic Base and Grinding Decline," in Tom Juravich, Ed., *The Future of Work in Massachusetts*, University of Massachusetts Press, 73-90.
- 2006 "Inside and Out, What's It All About? Universities and Education for Sustainable Development" with Linda Silka, in Robert Farrant and Linda Silka, Eds. *Inside and Out: Universities and Education for Sustainable Development*, Baywood Publishing, 1-14.
- 2005 "The Massachusetts Plastics Industry: A Regional Perspective," *Benchmarks*, 7, no. 2, 25-30.
- 2003 "The International Association of Machinists and the Struggle for a Blue-Collar Future in Connecticut" in Bert Altena and Marcel van der Linden, eds. *De-Industrialization: Social, Cultural, and Political Aspects*, Oxford University Press.
- 2003 "Metalworking in Massachusetts: Economic History with 21st-century Relevance," *Benchmarks*, 6, no. 3, 14-19.
- 2002 "Globalization, universities and sustainable human development: a framework for understanding the issues," with Jean Pyle, in Jean Pyle and Robert Farrant eds., *Globalization, Universities and Issues of Sustainable Human Development*, Edward Elgar Publishing, 3-28.
- 2002 "Portable intellectual currents and sustainable human development," with Jean Pyle, in Pyle and Farrant, eds., *Globalization, Universities and Issues of Sustainable Human Development*, Edward Elgar Publishing, 260-66.
- 2002 "Production Matters: Manufacturing and Sustainable Development in Jamaica 1970 - 2000," in Pyle and Farrant, eds., *Globalization, Universities and Issues of Sustainable Human Development*, London: Edward Elgar Publishing, 29-47.
- 2002 "Creative Work Systems in Destructive Markets: The Late-20th Century Steel and Metalworking Industries," with Suzanne Konzelmann, in Brendan Burchell, Simon Deakin, Jonathan Michie, and Jill Rubery, eds., *Systems of Production: Markets, Organizations and Performance*, London: Routledge.

- 2002 "The Machine Tool Industry and Manufacturing Innovation: A Post-World War Two Global Overview," *International Handbook of Business and Management*, London: International Thomson Business Press.
- 2002 "Good Jobs and the Cutting Edge: The U.S. Metalworking Industry and Sustainable Prosperity," in William Lazonick and Mary O'Sullivan, eds., *Corporate Governance and Sustainable Prosperity: Industrial Innovation, International Competition and Intergenerational Dependence*, New York: Palgrave, 78-103.
- 2001 "Surviving the Slide in the Northeast Region," *Benchmarks*, 4 (4), 18-23.
- 2001 "The Massachusetts High Tech Manufacturing Story," with Shawn Barry, *Benchmarks*, 4 (3), 12-16.
- 2001 "The Global Machine Tool Industry," in Malcolm Warner, ed., *International Encyclopedia of Business and Management*, London: Thomson Learning, 2309-16.
- 2001 "Random Acts of Assistance or Purposeful Intervention: The University of Massachusetts Lowell and the Regional Development Process," in Forrant, Robert, Jean Pyle, William Lazonick and Charles Levenstein, eds., *Approaches to Sustainable Regional Development: The Public University in the Regional Economy*, Amherst: University of Massachusetts Press, 335-57.
- 2001 "Innovation, the University of Massachusetts Lowell, and the Sustainable Regional Development Process," with Michael Best, in Forrant, Pyle, Lazonick and Levenstein, eds., *Approaches to Sustainable Regional Development: The Public University in the Regional Economy*, Amherst: University of Massachusetts Press, 271-94.
- 1999 "The Northeast Massachusetts Economy: Growth and Prosperity or Looming Crisis?" *Massachusetts Benchmarks*, 2 (2), 12-16.
- 1998 "Breaking the Mold: The Massachusetts Plastics Industry," *Massachusetts Benchmarks*, 1 (2), 16-19.
- 1998 "The Organizational Failure of the U.S. Machine Tool Industry in the Face of Globalization," in Peter Unterweger, ed., *The Machinery Industry: Globalization, Employment, New Enterprise Strategies*, Geneva: International Metalworkers Federation, 85-109.
- 1996 "Creating Industrial Capacity: Pentagon-led versus Production-led Industrial Policies," with Michael Best, in Jonathan Michie and John Grieve Smith, eds., *Creating Industrial Capacity: Towards Full Employment*. London: Oxford University Press, 225-54.
- 1996 "Community-Based Careers and Economic Virtue: Arming, Disarming, and Rearming the Springfield, Western Massachusetts Metalworking Region," with Michael Best, in Michael B. Arthur and Denise Rousseau, eds., *The Borderless Career*, London: Oxford University Press, 314-30.
- 1995 "The Western Massachusetts Chapter of the National Tooling and Machining Association: Cooperating for Education, Training, and Technology Diffusion," in Stuart Rosenfeld, ed., *Common Purpose, Common Sense: Case Studies in Interfirm Collaboration*. Regional Technology Strategies.
- 1994 "Production in Jamaica: Transforming Industrial Enterprises," with Michael Best, in Patsy Lewis, ed., *Jamaica: Preparing for the Twenty-first Century*, Kingston, Jamaica: Ian Randle Publishers, 53-97.

5. Reports and Working Papers

- 2000 *Strategies to Support the Plastics Industry in North Central Massachusetts*, with Steven Ellis, William Ennen and Steven Landau, University of Massachusetts Amherst, March.
- 1998 *Moving Toward Equity and Economic Empowerment: Some Observations on Immigrant-owned Businesses in Lowell*, with Linda Silka.
- 1998 *Enhancing Interactions Between Lowell Businesses and University Centers: A Survey Analysis and Discussion Paper*. March 1998. Paper prepared with graduate students Rajeshwari Kanniyappan, James Ngeru, and Jane Worthley. Survey of various university centers and Lowell businesses to determine the extent of interaction between the university and Lowell firms.
- 1996 *From the Inside Out: A Manufacturing Development Strategy for Lowell, Massachusetts*. Center for Industrial Competitiveness, University of Massachusetts Lowell. Detailed study of Lowell's manufacturing firms funded by the City of Lowell's Department of Planning and Development.
- 1995 *The Defense Conversion Progress of Massachusetts Subcontractors: An Industry Survey*. University of Massachusetts Lowell Center for Industrial Competitiveness with Denise Martucci and Michael Best. Prepared for the Massachusetts Executive Office of Economic Affairs Office of Business Development. Report based on the results of statistical data derived from a survey of over 500 firms in Massachusetts performing defense-related work. It examines such things as firm strategies in use to overcome loss of defense dollars and the particular types of technical and managerial assistance firms indicate they need to help them gain or regain their competitive edge.
- 1995 *Metalworking in the Merrimack River Valley: Can A Cutting Edge be Maintained?* University Center for Industrial Competitiveness. A detailed look at the strengths and weaknesses of metalworking in the Merrimack Valley of Massachusetts. It was prepared to engender discussions among industry leaders and public economic development officials in order to formulate strategies to bolster this critically important manufacturing sector.
- 1993 *The Demise of the Massachusetts Defense Connection*, with Elyse Cann. Springfield: Machine Action Project. The research was supported by a grant from the Department of Defense Office of Economic Adjustment. A first of its kind examination of the impact defense cuts were having on second and third tier suppliers to prime defense contractors. The report is based on in depth interviews and surveys of one hundred Massachusetts firms in the metalworking, electronics, and plastics sectors.
- 1992 *A Workers' Perspective: Skills, Training and Education*, with Kathleen McGraw. Berkeley, CA.: National Center for Research in Vocational Education. Research supported by the National Center for Research in Vocational Education. This report explores the impact of technology on job content in the metalworking, automotive, and printing industries from the perspective of front line workers and is based on surveys of several hundred workers across the country and detailed interviews with twenty-five Massachusetts workers.

6. Book Reviews

- 2007 Katherine Newman, *Chutes and Ladders: Navigating the Low-Wage Labor Market*, Harvard U.P., 2006. *Labor History*, forthcoming.
- 2006 Leo Van Den Berg and Antonio Russo, *The Student City: Planning for Student Communities in EU Cities*, Ashgate, 2004. *Journal of Regional Science*.
- 2005 *Innovation and the Growth of Cities* by Zoltan Acs, Edward Elgar Publishing, 2002. *Eastern Economics Review*, 31 (4), 692-3.
- 2005 John F. Witt, *The Accidental Republic: Crippled Workingmen, Destitute Widows, and the Remaking of American Law*, Harvard University Press, 2004. *Labor History*, 46 (3), 406-08.

- 2004 David Bacon, *The Children of NAFTA: Labor Wars on the U.S./Mexico Border*, University of California Press, 2004. *Labor History*, 45 (4) 552-54.
- 2004 Steven High, *Industrial Sunset: The Making of North America's Rust Belt, 1969 - 1984*, University of Toronto Press, 2003. *International Review of Social History*, 49 (3), 534-36.
- 2004 Review Essay, 'Where the Bad Things Go,' a review of David Naguib Pellow, *Garbage Wars: The Struggle for Environmental Justice in Chicago*. Cambridge, MIT Press, 2002; Eddie J. Girdner & Jack Smith, *Killing Me Softly: Toxic Waste, Corporate Profit, and the Struggle For Environmental Justice*, New York, Monthly Review Press, 2002; Luke W. Cole & Shelia R. Foster, *From the Ground Up: Environmental Racism and the Rise of the Environmental Justice Movement*, New York, NYU Press, 2001. *Capitalism, Nature, Socialism*.
- 2004 *To Save the Land and People: A History of Opposition to Surface Coal Mining in Appalachia* by Chad Montrie, University of North Carolina Press, 2003. *Business History Review*.
- 2004 *Disappearing into North Adams* by Joe Manning, Flatiron Press, 2001. *The Public Historian*, 26 (2), 83-4.
- 2002 *Reasonable Use: The People, the Environment, and the State, New England 1790-1930* by John T. Cumbler, Oxford University Press, 2001. *Environmental History*, 7 (2), 334-35.
- 2001 *The Rise of the Rest: Challenges to the West from Late-Industrializing Economies* by Alice H. Amsden, Oxford University Press, 2001. *Business History Review*, 75 (4), 922-25.
- 1998 *Forcing the Factory of the Future: Cybernation and Societal Institutions* by Bryn Jones, Cambridge University Press, 1997. *Industrial and Labor Relations Review*, 51.
- 1998 *Just Another Car Factory? Lean Production and Its Discontents*, Cornell University Press, 1997. *New Solutions*.
- 1997 *Gastonia 1929: The Story of the Loray Mill Strike* by John A. Salmond, University of North Carolina Press, 1995. *Industrial and Labor Relations Review*, 51, 155-57.
- 1996 *The Fulton Bag and Cotton Mills Strike of 1914 - 1915: Espionage, Labor Conflict, and New South Industrial Relations* by Gary M. Fink, ILR Press, 1993. *Industrial and Labor Relations Review*, 50, 772-74.
- 1995 *Can Workers Have a Voice? The Politics of Deindustrialization in Pittsburgh* by Dale Hathaway, Pennsylvania State University Press, 1993. *Journal of Economic History*, 55, 195-96.

D. GRANTS AND CONTRACTS

1. Foundations and National and International Research Organizations

Lowell National Historical Park. Principal Investigator, Fall 2006 – Spring 2008. Three-year research grant to produce a monograph on late nineteenth and late twentieth century immigration into Lowell, Massachusetts. \$110,000.

United States Department of Housing and Urban Development. Co-principal investigator with Professor Linda Silka of Community Outreach Partnership Grant, January 2003 - December 31, 2004. \$150,000.

Russell Sage Foundation. Co-principal investigator with Professor William Lazonick, "Growing Your Own in the New Economy: A Study of Skill Formation in the New England Optical Networking Industry," 2001-2003. \$100,000.

United States Department of Education Teaching American History Grant 2002-2005. Principal project historian to multi-year, approximately \$3 million grant with Lowell Public Schools, the Tsongas Industrial History Center and the University of Massachusetts Lowell.

United States Department of Education Teaching American History Grant 2002-2005. Project historian on the industrial history of the Connecticut River Valley to a multi-year, approximately \$3 million grant with Springfield, Massachusetts Public Schools and the Five College Consortium (Amherst College, Hampshire College, Mt. Holyoke College, Smith College and the University of Massachusetts Amherst).

International Association of Machinists and Aerospace Workers. Principal researcher on the long-term socioeconomic impacts of aerospace job loss in Connecticut, 2000 - 2001.

Northeastern University Center for Urban and Regional Policy, co-principal investigator with Professor Linda Silka, for evaluation of United States Department of Labor Third Tier Cities Project, 2001-2002. \$25,000.

Co-principal investigator with Professor Linda Silka, 3-year, U.S. Department of Housing and Urban Development Community Outreach Partnership Grant to the University of Massachusetts Lowell, 1996 - 1999. \$225,000.

Researcher on global changes in the metalworking and machine tool industry for European Commission's Targeted Socio-Economic Research (TSER) Programme on Corporate Governance, Innovation, and Economic Performance in the European Union, William Lazonick, UMass Lowell and Mary O'Sullivan, INSEAD, co-principal investigators. Grant of 830,000 ECU (about \$750,000), with INSEAD as the lead institution in collaboration with STEP Group (Oslo), Wissenschaftszentrum-Berlin, University of Edinburgh, and Bocconi University (Milan).

Sustainable Hospitals Project Faculty Researcher. Research and workshops on work place reorganization strategies for multi-year \$750,000 National Institute of Occupational Safety and Health grant on worker and community health and safety pollution prevention in hospitals to the University of Massachusetts Lowell Center for Sustainable Production, Margaret Quinn, principal investigator.

Review of industrial policy in Northern Ireland and report to the Northern Ireland Economic Council. Co-principal investigator with Professor Michael Best, University of Massachusetts Lowell, June 1998-February 1999. \$40,000.

International Labour Organization, Geneva, Switzerland. Commissioned research paper on the impact of shop-floor flexibility on firm competitiveness in two Massachusetts metalworking establishments. Paper presented at the International Labour Organization conference in Geneva, Switzerland in October 1998 on the impact of flexible labour market arrangements in the machinery, electrical, and electronics industries. \$5,000.

Research and case study preparation on international competitiveness of the U.S. machine tool and jet engine industries as part of a multi-scholar international research project funded by the Jerome Levy Economics Institute. \$5,000.

Principal Grant Writer and Program Development consultant to the University of Massachusetts Donahue Institute and the Commonwealth of Massachusetts' Executive Office of Economic Affairs in the successful preparation of a multi-year grant from the National Institute of Standards and Technology to establish a manufacturing extension program in the Commonwealth, 1993. \$3,000,000.

2. University and Local Sources

A. President's Office, University of Massachusetts

- Creative Economy President's Office Initiative, \$35,000, June 2007.

- *Massachusetts Benchmarks Initiative* regional economic analysis for Northeast Massachusetts, ongoing. Key economic indicators research project including employment, unemployment, wage and salary information, industry trends and international trade as part of system-wide faculty research team coordinated through the President's office. Responsibilities include regular articles on the economy of northeast Massachusetts and special feature articles to be published in the project's quarterly journal. Research activities are supported by an annual \$10,000 grant from the President's office, 1997-ongoing.
- Research consultant/researcher to the state-wide initiative by the Executive Office of Economic Affairs and the University of Massachusetts Donahue Institute to develop a new state-wide economic development strategy, "Shared Prosperity," Spring 2001-Spring 2002. Plan was released in Fall 2002. \$12,000.
- Massachusetts industry sector research project on the role that machine tool and metalworking firms play in high technology manufacturing firm innovation, October 1997-October 1998. \$20,000.
- Massachusetts industry sector research project on the global competitiveness of the jet engine industry in Massachusetts and New England. Co-principal investigator with Professor William Lazonick, University of Massachusetts Lowell, July 1998-June 1999. \$12,500.
- Donahue Institute research grant to update *Choosing to Compete* economic analysis of the state, \$7,500.

B. University of Massachusetts Lowell

- Co-principal Investigator with Professor William Lazonick of a Committee on Industrial Theory and Assessment 1999 Seed Grant for research on firm innovation and sustainable development, \$7,500.
- University of Massachusetts Lowell Public Service Endowment Grant Recipient, 1998-1999 to support activities of the University in the Neighborhoods project, \$1,445.
- Committee on Industrial Theory and Assessment Summer 1997 research support to prepare "Enhancing Interactions Between Lowell Businesses and University Centers," directed a research team of university graduate students.
- Research and paper on the changing nature of metal machining work and its impact on job classifications and seniority structures in large, unionized metalworking plants. Funded by the Center for Industrial Theory and Assessment, \$2,500 (completed Fall 1995).

C. City of Lowell

- Co-principal investigator, with Professor Michael Best, for research on Energy Supply Options for the City of Lowell. April 1997. \$20,900.
- Research and firm survey on industry in greater Lowell, Massachusetts as part of the preparation of a regional economic development strategy paper for the City of Lowell. \$20,000.

D. City of Leominster, Massachusetts

Co-principal investigator with faculty and staff of University of Massachusetts Donahue Institute, one-year research projects on the development of a plastics industry resource center in Leominster, Massachusetts. August-December 1999. \$75,000.

E. INSTRUCTION RELATED ACTIVITIES

1. Teaching Responsibilities

Ph.D. Dissertation Committees

Jennifer Zelnick, University of Massachusetts Lowell Work Environment Department, “The South African Aids Epidemic and the Problems for Health Care Workers,” chair.

Sally Edwards, University of Massachusetts Lowell Work Environment Department, “Sustainable Product Design and Globalization in the Toy Industry: A Focus on Doll Making,” 2004-2006.

Marion Flum, University of Massachusetts Lowell Work Environment Department, “Worker Participation in Health and Safety: Shopfloor Case Studies and Analysis,” 2001-2004.

Soonsil Lee, University of Massachusetts Lowell Work Environment Department, “Environmental Management Systems and Sustainable Production,” member, 2001-2003.

Thomas Fuller, University of Massachusetts Lowell Work Environment Department, “Clean Hospital Work Organization,” member, 2001-2003.

Thias Berria, University of Massachusetts Lowell Work Environment Department, “The Role of Trade Unions in Occupational Safety and Health Policies: the Case of Ergonomics in Brazil,” member, 1998-2000.

Jennifer Penny, University of Massachusetts Lowell Work Environment Department, “Green Jobs and the Sustainable Development Process,” member 2000-2002.

Cora Roeloffs, University of Massachusetts Lowell Work Environment Department, “Losing Controls: The Case for Preventive Industrial Hygiene,” member, 1999-2001.

Vesela Veleva, University of Massachusetts Lowell Work Environment Department, “Sustainable Development Indicators and Work-place Change, member, 1999-2001.

Master’s Degree Thesis Committees, chaired only, ongoing:

Pascha McTyson, 2007-2008.

Linh Tran, 2007-2008.

Jonathan Arambula, 2007-2008.

Heather Makrez, 2006-2007.

Heather Derby, 2006-2007.

Anne Chalupka, 2006-2007.

Joe Kennedy, 2006-2007.

Completed Theses (chaired only):

Gerald Byaruhanga, University of Massachusetts Lowell Department of Regional Economic and Social Development, “A Study of the Impact of Small Urban Centers on Economic and Social Development: A Uganda Case Study,” 2006-2007.

Henrique Boye Wilson, University of Massachusetts Lowell Department of Regional Economic and Social Development, “Firestone and Liberia: A Case Study in One-Sidedness,” 2006-2007.

Brian Michael Zbriger, University of Massachusetts Lowell Department of Regional Economic and Social Development, *Workers’ Control and Social Economy in Argentina’s Recuperated Enterprise Movement*,” 2006-2007.

Pawana Burlakoti, University of Massachusetts Lowell Department of Regional Economic and Social Development, “Large Dams and the Displaced in Nepal and India: A Case Study,” 2005-2006.

Reine El-Achkar, University of Massachusetts Lowell Department of Regional Economic and Social Development, "Lebanon and Hezbollah: From Militia to Political Party?", 2005-2006.

Abdulrahman Ibrahim, University of Massachusetts Lowell Department of Regional Economic and Social Development, "Kenya's Industrialization Process: Export Processing Zones as a Case Study," 2005-2006.

Barbara Rocha, University of Massachusetts Lowell Department of Regional Economic and Social Development, "Women and Conflict: Lessons and Applications for the Israeli-Palestinian Peace Process," 2004-2005.

Marianne Pellitier, University of Massachusetts Lowell Department of Regional Economic and Social Development, "The Role of Conflict/Compromise and Moderation in the Family and Medical Leave Act," 2004-2005.

Placide Dingue, University of Massachusetts Lowell Department of Regional Economic and Social Development, "Building Inclusive Micro-Lending Programs and Poverty Reduction in Cameroon," 2004-2005.

John Reynolds, University of Massachusetts Lowell Department of Regional Economic and Social Development, "NAFTA's Impact on Massachusetts Workers and Communities," 2003-2007.

Cathy Bailey, University of Massachusetts Lowell Department of Regional Economic and Social Development, "Occupational Burnout in the Massachusetts High Tech Sector," 2003-2005.

Beth Wilson, University of Massachusetts Lowell Department of Regional Economic and Social Development, "Changes in the Health Industry and the Restructuring of the Nursing Profession," 2003-2004.

Lisa Chandonnet, University of Massachusetts Lowell Department of Regional Economic and Social Development, "The Quest for Food Security: Policies and Issues in Zambia, chair, 2003-2004, completed.

Henri Urey, University of Massachusetts Lowell Department of Regional Economic and Social Development, "How Can Aid-Dependent Countries Take Possession of Their Development Trajectory: The Case of Liberia," 2003-2004.

Youngju Seo, University of Massachusetts Lowell Department of Regional Economic and Social Development, "Industrialization, Globalization and Women Workers in South Korea, 1960 - 2003," 2003-2004.

Paul Morse, University of Massachusetts Lowell Department of Regional Economic and Social Development, "The Fair Trade Movement, Coffee, and Globalization: No One Need Die Marching from Matagalpa to Managua," 2003-2004.

Marylee Dunn, University of Massachusetts Lowell Department of Regional Economic and Social Development, "Irish Immigration and Class Formation: The Rutland Vermont Granite Workers 1840-1900," 2002-2003.

George Martin Sirat, University of Massachusetts Lowell Department of Regional Economic and Social Development, "Rapid Industrialization and Urbanization in Indonesia, 1960-1990: State Policy Responses to Family Structure Change," 2002-2003.

Francine Corbin, University of Massachusetts Lowell Department of Regional Economic and Social Development, "The Pasta Stops Here: The Closing of the Prince Pasta Plant in Lowell, Massachusetts," 2000-2001.

Jen Gaudet, University of Massachusetts Lowell Department of Regional Economic and Social Development, "The Dynamics of the Coalitions in the Anti-Corporate Globalization Movement: A Massachusetts Case Study," 2005.

Sheri Breznitz, University of Massachusetts Lowell Department of Regional Economic and Social Development, "The Clustering of the Bio-Technology Industry in Cambridge, Massachusetts," 1999-2000.

2. New Course Development

- *Work, Technology and Training* - graduate level cross-college course for students in the College of Management, Work Environment and RESD.
- *Introduction to Regions* - undergraduate level course offered by RESD that explores basic issues associated with sustainable regional and community development.
- *Island Economies and Sustainable Development* - upper level undergraduate course that explores the issues associated with sustainable development in the context of an historical analysis of development in Puerto Rico, Ireland, Jamaica and Singapore.
- *Development Principles for Developing Economies* - graduate level course that explores theories of development through a comparative analysis of development strategies in several small countries including Ireland, Singapore, and Jamaica.
- *Comparative Industrial Revolutions* - upper level undergraduate course first taught in Spring 2000 examines the social and economic process of industrial development in England and the United States.
- *Work & Society* – upper level undergraduate history course that examines United States labor history.

F. SERVICE AND MISSION-RELATED ACTIVITIES

1. Community Activities Related to Professional Field

Board of Directors, Revolving Museum, 2007, ongoing.

Co-chair, Lowell City Manager's Homelessness and Affordable Housing Task Force, 2007, ongoing.

Consulting and research work with the Cultural Organization of Lowell and the Revolving Museum to determine the cultural impacts of museums, art galleries and performances on the Lowell economy. Supervision of a UMass Lowell graduate student researcher working with the Cultural Organization of Lowell, academic year 2006-2007.

Co-principal Investigator with Professor Linda Silka, 3-year, \$400,000 U.S. Department of Housing and Urban Development Community Outreach Partnership Grant to the University of Massachusetts Lowell, 1996 - 1999. Program partners include: Lowell Teen Coalition, Merrimack Valley Housing Partnership, YMCA, YWCA, Lowell Chamber of Commerce, Francis Gate House, Coalition for a Better Acre, Cambodian Mutual Assistance Association, Habitat for Humanity, Middlesex Community College Small Business Development Center, Mogan Center, Tsongas Industrial History Center, Lowell Division of Neighborhood Services.

Immigrant and Minority-owned Business Survey. Co-coordinator of UML graduate students and Lowell High School students survey research on immigrant and ethnic-owned businesses in Lowell, Massachusetts during the Summer and Fall 1998. This research was funded by a Committee on Industrial Theory and Assessment matching grant to the Community Outreach Partnership initiative.

Co-coordinator, with Professor Linda Silka, of faculty and community *Breakfast Discussion Series*, Spring 1998 to present. Program is part of the university's Community Outreach Partnership initiative

Co-coordinator, with Professor Doreen Arcus, of faculty and student lunch-time *Interdisciplinary Discussion Series on Healthy Cities*, Spring 1998 to present. Program is a joint activity of the Department of Community Psychology and the Department of Regional Economic and Social Development.

Supervise graduate student team and coordinate writing and edit final report of a business survey for the Lowell Regional Transit Authority on linking bus routes to job opportunities for Lowell residents, Winter 1997-1998.

University of the Neighborhoods. Workshops on: the role of the community in the economic development process in Lowell; a comparison of the economies and development trajectories in Lowell and Lawrence, Massachusetts, Fall 1998. The University of the Neighborhoods is a collaboration of the City of Lowell's Division of Neighborhood Services, the Citywide Neighborhood Council, and the University's Community Outreach Partnership program.

Technical Assistance Workshop with Fitchburg State College Community Outreach Partnership grant team conducted with Professor Linda Silka, October 27, 1998.

Consultant, with Professor Linda Silka, to Swedish Public Television documentary team producing a program comparing the economic revitalization of Lowell with several Swedish textile mill cities going through similar economic reorganizations, July, 1998.

Faculty member, University of Massachusetts Lowell team that conducted union - management health and safety and sustainable development projects at Malden Mills in Lawrence, Massachusetts, 1996-1998.

Board of Directors, MechTech Corporation, a private non-profit and industry-led metalworkers apprenticeship education and training program, 1995 to present.

Chairperson, Metalworking Technologies Industry Advisory Board, Chicopee Comprehensive High School, Chicopee, Massachusetts, 1993-2002.

Regional Technology Strategies and U.S. Net national consultant for development of manufacturing networks, technology transfer programs, and training consortia programs.

Hampden County, Massachusetts Regional Employment Board consultant on school to work training initiatives and the development of industry cluster training programs in metalworking, telecommunications, and software 1994 to present.

Industry Advisory Board Chairperson, Technical Assistance and Manufacturing Training Program, Western Massachusetts Chapter of the National Tooling and Machining Association, Springfield, Massachusetts, 1994 to present.

Consultant and grant preparer for Hampden County Regional Employment Board 1994-1997.

Consultant and grant preparer for Western Ma. chapter of the National Tooling and Machining Association Manufacturing Network proposal to Bay State Skills Corporation, Spring, 1995.

Consultant and workshop leader Springfield Technical Community College Summer Institute for High School Academic and Technology instructors, Summer 1995.

Interim Director of the Merrimack Valley Manufacturing Partnership, January 1993-June 1994, including principal grant writer and program development consultant to the Commonwealth of Massachusetts' successful \$3 million National Institute of Standards and Technology manufacturing extension proposal.

2. Committee Activities

RESD AQUAD Review Committee, principal drafter of Department's self-study.
Committee on Industrial Theory and Assessment co-chair 1998 to date.

Task Force member, University-wide committee on Improving University Research Activities, 2004.
Advisory Board member, University of Massachusetts Lowell Public Health Initiative.
Faculty Associate, Lowell Center for Sustainable Production.
Senior Researcher, University of Massachusetts Lowell Center for Industrial Competitiveness since 1997.
RESO Finance Committee and Curriculum Committee, 1999 to date.