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**ACADEMIC POSITIONS**

Associate Professor, School of Public Policy, George Mason University, 2004-present.

Associate Professor, Kennedy School of Government, Harvard University, 1998-2004.

Assistant Professor, Kennedy School of Government, Harvard University, 1994-1998.

**EDUCATION**

Ph.D., Department of Political Science, M.I.T., 1995.

B.A. with University Honors, Science in Society Program, Wesleyan University, 1983.

**RESEARCH AND WRITING**

**A. Books.**

*Forged Consensus: Science, Technology, and Economic Policy in the United States, 1921-1953* (Princeton University Press, 1998). [Excerpted in Albert H. Teich, et al., eds., *AAAS Science and Technology Policy Yearbook 1999* (American Association for the Advancement of Science, 1999), 293-304.]

*The Emergence of Entrepreneurship Policy: Governance, Start-Ups, and Growth in the U.S. Knowledge Economy* (edited volume) (Cambridge University Press, 2003).

**B. Published articles and essays.**

“Brain Gain,” *Princeton Encyclopedia of the World Economy* (Princeton University Press, forthcoming)

“U.S. Politics, Economy, and Technology,” *Companion to the Philosophy of Technology* (Blackwell, forthcoming)

“Red, White, and ‘Big Blue’: IBM and the Business-Government Interface in the U.S., 1956-

- 2000," *Enterprise and Society* 8(1):1-34 (2007).
- "Understanding Immigration in a National Systems of Innovation Framework," *Science and Public Policy* 34(1):45-53 (2007).
- "Governing the Global Knowledge Economy," *FLAD Newsletter*, December 2006, 14-15.
- "Global Flows of Talent: Benchmarking the U.S.," Information Technology and Innovation Foundation policy brief, November 17, 2006.
- "From Brain Drain to Mutual Gain: New Opportunities to Share the Benefits of High-Skill Migration," *Issues in Science and Technology*, Fall, 2006, 53-62.
- "Managing the Global Talent Pool: Sovereignty, Treaty, and Intergovernmental Networks," *Technology in Society* 28(4):421-434 (2006).
- "The Political Development of William C. Norris and Control Data Corporation, 1957-1986," *Enterprise & Society* 6:197-223 (2005).
- "Political Economy of Science and Technology," *Encyclopedia of Science, Technology, and Ethics* (Macmillan, 2005).
- "Bush-Kerry: More of the Change?" *The Scientist*, October 25, 2004.
- "Business Is Not an Interest Group (And, By the Way, There's No Such Thing as 'Business'):  
On Companies in American National Politics," *Annual Review of Political Science* 7:47-67 (2004).
- "Corporate Technological Capabilities and the State: A Dynamic Historical Interaction.," in Kenneth Lipartito and David B. Sicilia, eds., *Constructing Corporate America: Historical Perspectives on Big Business, Society, and Politics* (Oxford University Press, 2004).
- "Political Representation Among Dominant Firms: Revisiting the Olsonian Hypothesis," *Business and Politics* 5:261-286 (2003).
- "Entrepreneurship Policy: What It Is and Where It Came From," in David M. Hart, ed., *The Emergence of Entrepreneurship Policy* (Cambridge University Press, 2003).
- "Knowledge, Power, and Entrepreneurs: A First Pass at the Politics of Entrepreneurship Policy," in David M. Hart, ed., *The Emergence of Entrepreneurship Policy* (Cambridge University Press, 2003).
- "Private Technological Capabilities as Products of National Innovation Systems: Four Ways of Looking at the State," *Science and Public Policy* 29:181-188 (2002).
- "High-Tech Learns to Play the Washington Game, or the Political Education of Bill Gates and Other Nerds," in Allan J. Cigler and Burdett Loomis, eds., *Interest Group Politics*, 6<sup>th</sup> ed.

- (CQ Press, 2002), 293-312.
- “New Economy, Old Politics: The Evolving Role of the High-Tech Industry in U.S. Politics,” in John D. Donahue and Joseph S. Nye, Jr., eds., *Governance in a World of Bigger, Better Markets* (Brookings Institution Press, 2001), 235-265.
- “Why Do Some Firms Give? Why Do Some Firms Give a Lot? High-Tech PACs, 1978-1996,” *Journal of Politics* 63:1230-1249 (2001).
- “Antitrust and Technological Innovation in the U.S.: Ideas, Institutions, Decisions, and Outcomes, 1890-2000,” *Research Policy* 30:923-936 (2001).
- “Government Organization: Implications for Science and Technology Policy,” in John de la Mothe, ed., *Science, Technology, and Governance* (Pinter, 2001).
- “Research, Innovation, and Politics,” *Nature* 407:561-562 (5 October 2000).
- “Technology Policy in the First Clinton Administration,” in *Triumphs and Tragedies of the Modern Presidency: Seventy-Six Case Studies in Presidential Leadership* (Washington: Center for the Study of the Presidency, 2000).
- “IBM in American Politics, 1970-1999,” *Business and Economic History* 28(2):49-60 (1999).
- “Comentario: Ciencia – La Frontiera Sin Fin,” *Redes* 7(14):143-146 (1999).
- “Antitrust and Technological Innovation,” *Issues in Science and Technology*, Winter, 1998-99, 75-82.
- “Herbert Hoover's Last Laugh: The Enduring Significance of the 'Associative State' in the United States,” *Journal of Policy History* 10:419-444 (1998).
- “U.S. Technology Policy: New Tools for New Times,” *NIRA Review*, Summer, 1998, 3-6.
- “Managing Technology Policy at the White House,” in Lewis M. Branscomb and James H. Keller, eds., *Investing in Innovation* (MIT Press, 1998), 438-461.
- “Investing in Innovation,” Competitiveness Policy Council, April 24, 1997 (with Lewis Branscomb, Richard Florida, James Keller, and Darin Boville).
- “Facilitating Technological Change in Developing Country Energy Systems: Lessons from Development Experience,” in Henry Lee, ed., *Shaping National Responses to Climate Change: A Post-Rio Guide* (Island Press, 1995) (with Vicki Norberg-Bohm), 261-288.

"Scientific Elites and the Making of U.S. Policy for Climate Change Research, 1957-1974,"  
*Social Studies of Science* 23:643-680 (1993) (with David Victor).

Guest editor, special issue on "Science, Technology, and Individual Responsibility," *Technology in Society*, volume 8, number 4 (1986).

### **C. Unpublished work and work in progress.**

"Agenda-setting and Resource Allocation in the Think Tank 'Industry': The Case of the  
'Internet Revolution'." (Presented at the American Political Science Association, 2003.)

"Accounting for Change in National Systems of Innovation" (Presented at University of Sussex,  
Science Policy Research Unit, 2006.)

"The Ecology of High-Tech Business Interests in Washington, D.C.: Assembly Rules and  
Resource Partitioning." (Presented at the Midwest Political Science Association, 2001.)

"The Social Context for High-Potential Entrepreneurship in the U.S.: An Historical-Institutional  
Perspective." (Presented at Shibusawa Foundation North American Seminar, June 2007.)

"Governing the Global Knowledge Economy" (To be prepared for Georgia Tech Conference on  
Science and Technology Policy, October 2007.)

"Managing Complexity Within Complexity: IBM and the U.S.-Japan Semiconductor Trade  
Arrangement."

"Political Theory of the Firm." (To be prepared for *Oxford Handbook of Business and  
Government*)

"The Politics of "Entrepreneurial" State Economic Development Policy," SPP Working Paper  
no. 1, June 2007.

"Star Dust and Shoe Leather: The Globalization of Businesses' Public Policy Capacities."  
(Presented at the New England Political Science Association, 2003.)

### **D. Book reviews.**

Alan P. Rudy *et al.*, *Universities in the Age of Corporate Science*, in *Enterprise and Society*  
(forthcoming)

David Nye, *Technology Matters* in *American Scientist*, November-December 2006.

Frank Dobbin, ed., *The New Economic Sociology* in *Enterprise & Society* 6(3):495-497 (2005).

Nelly Oudshorn, *The Male Pill* in *Step Forward*, Fall, 2005.

Johann-Peter Murmann, *Knowledge and Competitive Advantage* in *Step Forward*, Fall, 2004.

Louis Galambos and Eric John Abrahamson, *Anytime Anywhere: Entrepreneurship and the Creation of a Wireless World* in *American Historical Review*, 108:1115-1116 (2003).

Guy Stever, *In War and Peace: My Life in Science and Technology* in *Chemical and Engineering News*, March 24, 2003, 37-38.

Daniel S. Greenberg, *Science, Politics, and Money: Political Success and Ethical Erosion* in *Issues in Science and Technology*, Spring, 2002, 89-93.

Alfred D. Chandler, *Inventing the Electronic Century: The Epic Story of the Computer and Consumer Electronics Industries* in *American Scientist*, January-February, 2002, 92-93.

James D. Savage, *Funding Science in America: Congress, Universities, and the Politics of the Academic Pork Barrel* in *American Political Science Review* 94:465 (2000).

William E. Leuchtenburg, *The FDR Years: On Roosevelt and His Legacy* in *Journal of Policy History* 11:94-96 (1999).

David Plotke, *Building a Democratic Political Order: Reshaping American Liberalism in the 1930s and 1940s* in *Clio* (newsletter of APSA Politics and History Section), vol. 7, no. 1 (Fall/Winter, 1996), 23.

Kim McQuaid, *Uneasy Partners: Big Business in American Politics, 1945-1990* in *Business History Review* 69:589-590 (1995).

Alan Brinkley, *The End of Reform: New Deal Liberalism in Recession and War* (New York: Knopf, 1995) in *Clio*, vol. 5, no. 2 (Spring/Summer, 1995), 10.

#### **E. Selected conference and seminar presentations (not listed elsewhere)**

“Global Flows of Talent,” National Institute of Science and Technology Policy, MEXT, Tokyo, January 18, 2007

“What Are Interests, and Are They Special?,” Robert Wood Johnson Health Policy Fellows Synergy Conference, June 16, 2006; June 22, 2005.

“National Strategy for Education and Innovation,” SUNY/CFR conference on “The Evolving Global Talent Pool,” New York City, June 16, 2005.

“Research and Innovation Policy in the U.S.,” University of Cambridge (UK), January 20, 2005; January 27, 2004.

“The Emergence of Entrepreneurship Policy,” George Mason University Entrepreneurship Conference, November 12, 2004; Diebold Conference on Entrepreneurship, London, April 27, 2004; University of Sussex, January 29, 2004; University of Lowell, November 17, 2003.

“The Political Education of the U.S. High-Tech Industry,” Illinois Institute of Technology, December 16, 2003; George Washington University, December 4, 2003; Bentley College, November 13, 2003; Northeastern University, November 14, 2002; Georgetown University, December 13, 2002.

“India and Technological Innovation,” Harvard University, May 7, 2003.

“The Future of U.S. Science and Technology Policy,” Eastern Management Development Center, Office of Personnel Management, Shepardsdown, WV, August 21, 2002.

“Roundtable: Corporations as Political Actors,” Midwest Political Science Association, Chicago, April 28, 2002.

Visiting Faculty, Great Issues Forum, Public Policy Program, Denver University, January 2002.

“Entrepreneurship and Public Policy,” US-China (NSF-CNSF) Joint Science Policy Seminar, Washington, D.C., March 20, 2002; Association for Public Policy and Management, Washington, D.C., November 2, 2001.

“Current Issues in Technology Policy,” George Mason University, January 22, 2002.

“New Frontiers of Biomedical Research, 1945-1980,” National Library of Medicine, National Institutes of Health, October 29, 2001.

“Antitrust and Technological Innovation: Microsoft and Beyond,” George Washington University, March 21, 2001.

“Technology, the Corporation, and the State,” Seminar on New Directions in Business History, Kennedy School of Government, March 1, 2001.

“Technology Policy and the New Economy in the Next American Administration,” Industry Canada, Ottawa, October 11, 2000.

“The Context for International R&D Cooperation,” US-China (NSF-CNSF) Joint Science Policy Seminar, Beijing, October 25, 1999.

“Globalization and Corporate Political Power: A Hypothesis,” KSG Visions of Governance Project, Bretton Woods, New Hampshire, July 12, 1999.

“Government-University-Industry Relations,” Portuguese-American Postgraduate Society Forum, MIT, October 24, 1998.

“Internationalization and Privatization: Implications for Science and Technology Policy,”  
Colloquium in Honor of Professor Eugene B. Skolnikoff, MIT, May 15, 1998.

“The ‘Historical Turn’ in Political Science and the History of American Science and Technology Policy,” conference on “Science, Technology and Modern America: New Historical Perspectives,” University of California, Los Angeles, March 7, 1998.

“U.S. Technology Policy,” conference on “Understanding the Science and Technology Enterprise: The Political and Economic Contexts,” Brookings Institution, May 14, 1998.

"Institutional Interference Patterns: Technology and Industrial Policy Since the 1920s,"  
American Political Science Association, August 28, 1997.

“The Changing Governance of Technological Innovation: Internationalization, Privatization, Federalization” and “Economic Expectations and Presidential Performance: A Mismatch Worth Worrying About,” KSG Visions of Governance Project, Bretton Woods, New Hampshire, July 21-23, 1997.

"A Confusion of Means and Ends: The Debate Over the Federal Role in Organizing, Managing and Funding the Nation's Science and Technology," conference on *Science, The Endless Frontier*, Columbia University, September 21, 1996.

"Bush, Science, Technology, and Economic Policy in the Late 1940s," Annual Meeting of the American Association for the Advancement of Science, February 21, 1995.

"The Disappearance of 'Technological Unemployment' from the American Economic Policy Debate, 1937-1946," New England Political Science Association, April 3, 1993.

"National Innovation Systems: An Appraisal," International Workshop for Rising Scholars and Practitioners in Science and Technology Policy, Honolulu, Hawaii, January 7-9, 1993.

## **COURSES TAUGHT**

American Politics: Institutions, Processes, and Policies (PAL-207-208/Gov 3004)

Business as a Political Actor (BGP-232)

Electoral and Advocacy Politics (PAL-201)

Governance and Policy Processes (PUBP 502)

Lobbying and Interest Representation (PUBP 735)

Mobilizing for Political Action (PAL-110)

Science, Technology, and Public Policy (STP-100)

Technological Innovation for Economic Growth: Knowledge, Entrepreneurship, and Governance (BGP-213)

Technology, Science, and Innovation: Governance and Institutions (PUBP 820)

Technology, Science, and Public Policy II (PUBP 821)

Executive Programs (Science, Technology, and Innovation; Oil and Natural Gas Corporation of India)

Dissertation and Ph.D. committee service (current):

Diamond, David (dissertation, member)

Duchak, George (field, chair)

Ehle, Gretchen (dissertation, chair)

Gutierrez, Juan Julio (field, chair)

Kallas, Kadri (field, chair)

Klein, Alex (dissertation, chair)

May, Kyle (dissertation, chair)

Miley, Steven (dissertation, member)

## **TEACHING FIELDS**

Business-Government Relations

Governance

Interest Groups

Policy History

Political Advocacy and Political Strategy

Science Policy

Technology Policy (Biotechnology, High-Tech Entrepreneurship, Information Technology)

## **FELLOWSHIPS AND AWARDS**

2005: Multidisciplinary Entrepreneurship Research Grant, Kauffman Foundation.

1995: Herbert Hoover Presidential Library Association Scholar

1993-94: Doctoral Research Fellowship, Industrial Performance Center, M.I.T.

- 1993: American Politics Dissertation Travel Grant, Political Science Department, M.I.T.
- 1991-93: Predoctoral Fellowship, Center for Science and International Affairs, Kennedy School of Government, Harvard University.

### **PROFESSIONAL SERVICE**

- Consultant, MacArthur Foundation, International Peace and Security Program, 2007
- Chair, SPP Search Committee, 2006-present
- Coordinator, GMU-GW Technology, Science and Innovation Research Workshop, 2005-present.
- Member, Editorial Board, *Science and Public Policy*, 2004-present.
- Member, Governing Council, Politics and History Section, American Political Science Association, 2005-present.
- Member, SPP Curriculum Committee, 2006-present
- Faculty Advisor, Graduate Student Conference on Science and Technology in Society, 2004-present.
- Faculty Advisor, *New Voices in Public Policy* (student journal), 2006-present
- E. E. Schattschneider Award Committee, American Political Science Association, 2006.
- Chair, Don K. Price Award Committee, American Political Science Association, 2004-2005.
- Faculty Chair, Political Advocacy Methodological Area of Concentration, 1997-2004.
- Member, MPP Admissions Committee, 1995-2004.
- Contributing Editor, "Evaluation of DOE's Technology Partnership Programs," Department of Energy, 2004.
- Member, Academic Advisory Board, Center on Science, Policy and Outcomes, 1998-2002.
- Member, Whitehead Institute Task Force on Genetics and Public Policy, 1994-2002.
- Conference Organizer, "Entrepreneurship and Public Policy," Kennedy School of Government, April 10-11, 2001 (sponsored by the National Commission on Entrepreneurship and the Ewing Marion Kauffman Foundation).
- Coordinator, Boston-area Workshop on American Political Development, 1994-1998.
- Conference Organizer, "The Politics of Economic Inequality in the Twentieth Century,"

Kennedy School of Government, Harvard University, September 28, 1996; and “Where Are We in American Political Development? Contemporary Politics in Historical Perspective,” Kennedy School of Government, Harvard University, October 14, 1995, both for the Boston-area Workshop on American Political Development.

Panel Organizer, "The Not So Silent Majority: Business Lobbying in Washington, D.C.," Midwest Political Science Association, April 21, 2001; "Regimes and Orders in American Political Development," American Political Science Association, August 28, 1997.

Commentator, “The New Deal and Liberalism Across the Wartime Divide,” Policy History Conference, June 1, 2006; “American Business and Party Politics, American Political Science Association, September 3, 2005; “Interest Groups and Representation,” American Political Science Association,” September 1, 2004; “Dilemmas of Business and Government,” Policy History Conference, May 21, 2004; “Ideology, Interests, and Party Representation,” Midwest Political Science Association, April 18, 2004; “Strategies for Legislative Advocacy,” American Political Science Association, September 1, 2003; “Public Policy at War,” Policy History Conference, June 2, 2002; "Comparing the Trajectories of Science Policy in the United States and Japan in the Next Century,” American Political Science Association, Atlanta, Sept. 3, 1999; “Elitism and Democracy in the Regulatory State,” Organization of American Historians, Toronto, April 24, 1999.

Rapporteur, “Government’s Role in Technology Innovation,” Department of Energy, Washington, D.C., February 11, 2002.

Section Chair, Politics and History, New England Political Science Association, 2001.

Consultant, National Research Council panel on Government Performance and Results Act, 2000.

Chair, Policy Analysis Exercise Awards Committee, 1999-2000, 2002.

Member, Junior Politics Search Committee, 1997-1998.

Member, Senior/Junior History Search Committee, 1998-2000.

Member, Nominations Committee, APSA Politics and History Section, 1995-1996.

Member, Policy Analysis Exercise Awards Committee, 1995, 1997, 2001.

Staff, "International Relationships of M.I.T. in a Technologically Competitive World," M.I.T. faculty study group, May, 1991.

Peer reviewer (manuscripts, articles, reports, and proposals – various dates):

*American Journal of Political Science*

*American Political Science Review*

*Business and Politics*

Cambridge University Press

*Environment and Planning C*  
*International Organization*  
*Journal of Policy History*  
*Journal of Politics*  
National Academy of Engineering  
National Science Foundation  
*Pacific Affairs*  
*Political Research Quarterly*  
Routledge Press  
*Science and Public Policy*  
Sloan Foundation  
*Social Studies of Science*  
*Studies in American Political Development*