

JUDITH REPPY

CURRICULUM VITAE

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CURRENT POSITION: Professor, Department of Science and Technology Studies, Cornell University

EDUCATION: B.A. Mount Holyoke College, 1958 (Magna cum Laude)
M.A. Yale University, 1961
Ph.D. (Economics) Cornell University, 1972

BACKGROUND:

Fall 2003	Visiting Professor, Science Studies Unit, University of Edinburgh
1996-	Professor, Department of Science & Technology Studies
1996-2006	Associate Director, Peace Studies Program
1996	Visiting Fellow, PREST, Manchester University, England
1991-95	Director, Peace Studies Program
1991-95	Adjunct Associate Professor, Department of Science and Technology Studies
1990-91	Acting Director, Program on Science, Technology and Society
1989-90	Visiting Professor, Department of Science and Technology Policy, Manchester University, England
1986	Acting Director, Peace Studies Program
Fall 1985	Hallsworth Fellow, Department of Science and Technology Policy, Manchester University, England
1984-91	Associate Director, Peace Studies Program, Cornell University
Spring 1984	Visiting Fellow, Center for International Studies, Massachusetts Institute of Technology
1983	Adjunct Associate Professor, Government Department, Cornell University
1982-95	Associate Professor of Peace Studies, Center for International Studies, Cornell University
1981-83	Acting Director and Director, Peace Studies Program, Cornell University
1979-80	Visiting Fellow, Science Policy Research Unit, University of Sussex, England
1973-82	Research Associate and Senior Research Associate, Peace Studies Program, Cornell University
1972-73	Visiting Research Fellow, Department of Liberal Studies in Science, University of Manchester, England
1971-72	Research Associate, Program on Science, Technology and Society, Cornell University
1962-65	Research Assistant at the Economic Growth Center, Yale

1959-60, 1962-65 University
Assistant classifier for the American Economic Association's *Index of Economic Journals*

COURSES TAUGHT: B&Soc/S&TS 343 - Biotechnology and the Economy
Economics 102 (teaching assistant)
(All at Cornell) Economics 306 Economics of Defense Spending
Government 484 Arms Control and Defense Policy
Government 381 Politics of Defense Spending
Government 384 - War and Peace in the Nuclear Age
Government 393 - Introduction to Peace Studies
Government 415 - Race and Gender in Organizations
Government/S&TS 483 - The Military and New Technology
S&TS 101 - Science and Technology in the Public Arena
S&TS 201 - What is Science?
S&TS 343 - Biotechnology and the Economy
S&TS 391 - Science in the American Polity
S&TS 468 - Understanding Innovation: Ideas and Practices
S&TS 693 - Economics Meets Science Studies
S&TS 700 - Technology Transfer Issues

SELECTED ACTIVITIES: Co-Director ISODARCO Winter Course (2005, 2009)
Phi Beta Kappa Visiting Scholar, 2005-06
Phi Beta Kappa Distinguished Lecturer, 2006-09
Chair, Selection Committee for the Research & Writing Grants
Competition, MacArthur Foundation, 2003-04
Co-Chair, US Pugwash, 1995-2000
Member, Council on Foreign Relations

HONORS: Phi Beta Kappa
Danforth Graduate Fellowship for Women
Hallsworth Fellowship in Political Economy, Manchester
University, 1985.
Honorary Doctor of Laws, Mount Holyoke College, May 1986.

PUBLICATIONS

Books and Monographs

The United States and Asian Security, co-editor (with Matthew Evangelista), Peace Studies Program Occasional Papers, No. 26 (May 2002).
The Place of the Defense Industry in National Systems of Innovation, ed. and author, Peace Studies Program Occasional Papers, No. 25 (April 2000).
Secrecy and Knowledge Production, ed., Peace Studies Program Occasional Papers, No. 23 (October 1999).
Beyond Zero Tolerance: Discrimination in Military Culture (Boulder, CO: Rowman and Littlefield, 1999). Co-editor and author (with Mary Fainsod Katzenstein)
Conversion of Military R&D: Problems and Prospects (London: MacMillan, 1998). Principal editor (with Joseph Rotblat, John Holdren, and Vsevolod Avduyevsky) and author.
Earthly Goods: Environmental Change and Social Justice (Ithaca, NY: Cornell University Press, 1996). Coeditor and author (with Fen Osler Hampson).

- The Future of the National Nuclear Laboratories*, Peace Studies Program Occasional Papers, No. 18 (April 1994). Co-editor (with Joseph Pilat) and contributor.
- The Relations Between Defence and Civil Technologies* (Dordrecht: Kluwer, 1988). Co-editor and contributor (with Philip Gummett).
- Labour Use and Productivity in Military and NonMilitary Related Industry*, International Labour Office, World Employment Programme, Disarmament and Employment Programme, Working Paper No. 2 (Geneva: ILO, February 1986).
- The Genesis of New Weapons: Decision Making for Military R&D*, (New York: Pergamon Press, 1980). Co-editor (with F.A. Long) and contributor.
- The IR&D Program of the Department of Defense*, Peace Studies Program Occasional Papers, No. 6 (March 1976).

Articles and Contributed Chapters

- “A Bio-medical Military Industrial Complex?” *Technovation* 28 (2008): 802-811.
- “Non-lethal Weapons: Democratic Necessity or Business as Usual?” In *Democracy and Security*, ed. Matthew Evangelista, Harald Müller and Niklas Schörnig. New York: Routledge (2008) (with Jürgen Altmann).
- “Much Ado About Democracy: Some Skeptical Observations on Democracies and War,” In *Democracy and Security*, ed. Matthew Evangelista, Harald Müller and Niklas Schörnig. New York: Routledge (2008) (with Matthew Evangelista).
- "Managing Dual-Use Technology in an Age of Uncertainty," *The Forum: A Journal of Applied Research in Contemporary Politics*, Berkeley Electronic Press (2006).
- Dual-Use Technology in the New Strategic Environment. In *Albert Einstein weiterdenken - Verantwortung des Wissenschaftlers und Frieden im 21. Jahrhundert*, Stefan Albrecht, Reiner Braun and Thomas Held, Peter Lang Publishing House (2006).
- Globalizing Biosecurity, *Biosecurity and Bioterrorism* (March 2005) (with Ron Atlas).
- The Earth Sciences in the Cold War, *Social Studies of Science: Special Issue* 33 (October 2003) (co-editor, with John Cloud).
- Regulating Biotechnology in the Age of Homeland Security, *Science Studies* 16, 2 (2003): 38-51.
- The Governance of Military R& D after the Cold War, in *Science, Technology, and Governance*, John De La Mothe, ed. (Continuum, 2001) (with Philip Gummett).
- Conceptualizing the Role of Defense Industries in National Systems of Innovation, in Judith Reppy, ed., *The Place of the Defense Industry in National Systems of Innovation*, Peace Studies Program Occasional Papers, No. 25 (April 2000).
- Back to the Future: Dual Use and Proliferation, In *Arming the Future*, Ann Markusen and Sean Costigan, eds. (New York: Council on Foreign Relations, 1999)
- Environmental Change and Social Justice, *Environment* 39 (April 1997) (with Fen Osler Hampson).
- U.S. Airpower and Aerospace Industries in Transition. In Randall Forsberg, ed., *The Arms Production Dilemma*, CSIA Studies in International Security No. 7, (Cambridge, MA: MIT Press, 1994) (With Randall Forsberg and Andrew Peach).
- Technology Transfer: A Conceptual Framework for Evaluating Policy, in Judith Reppy and Joseph Pilat, eds., *The Future of the National Nuclear Laboratories*, Peace Studies Occasional Papers No. 18 (April 1994).
- Defense Companies Strategies in a Declining Market: Implications for Government Policy, *Peace Economics, Peace Science, and Public Policy* 1:2 (Winter 1994).
- The United States: Unmanaged Change. In Herbert Wulf, ed., *Arms Industry Limited* (SIPRI, 1993).
- Steering Military R&D. In Wim Smit, John Grin and Lev Voronkov, eds., *Military*

- Technological Innovation and Stability* (Amsterdam: VU University Press, 1992).
- Responses of the US Arms Industry. In Michael Brzoska and Peter Lock, eds., *Restructuring of Arms Industries in Western Europe* (Oxford: Oxford University Press, SIPRI, 1992).
- Military Research and Development and International Trade Performance. In Andrew L. Ross, ed., *The Political Economy of Defense: Issues and Implications* (Greenwood Press, 1991).
- Military Industrial Networks and Technical Change in the New Strategic Environment, *Government and Opposition*, 25 (Summer 1990), with Philip Gummett.
- On the Economics of National Security. In Edward Kolodziej and Patrick Morgan, eds., *National Security and Arms Control: A Reference Guide to Theory and Practice*, Vol. 1 (Westport, CT: Greenwood Press, 1989).
- The Government of Military R&D: A Comparative Perspective. In Everett Mendelsohn, Merritt Roe Smith and Peter Weingart, eds., *Science, Technology and the Military, Social Studies in Science Yearbook*, Vol. XII (Dordrecht: Kluwer, 1988).
- Economic and Technology Issues in the NATO Alliance. In *Evolving European Defense Policies*, C. Kelleher and G. Mattox, eds. (Lexington, MA: Lexington Books, 1987), with Philip Gummett.
- Military R&D and the Civilian Economy, *Bulletin of the Atomic Scientists* (October 1985).
- Military Spending and the U.S. Economy In *Security vs. Survival: The Nuclear Arms Race*, Indu Singh and Theresa Smith, eds. (Boulder, CO: Lynne Rienner, 1985).
- The Decision Process for U.S. Military R&D. In *Annual Review of Military Research and Development*, Kosta Tsipis and Penny Janeway, eds. (New York: Pergamon Press, 1984), with F.A. Long.
- The U.S. Defense Industry. In *The Structure of the Defense Industry*, Milton Leitenberg and Nicole Ball, eds. (London: Croom, Helm, 1983).
- The Role of the Air Force in the Development of Numerically Controlled Machine Tools. Harvard Business School Case Records 9682624 (1982).
- Public Policy for New Technology: The VHSIC Program of the Department of Defense, Harvard Business School Case Records 9382760 (1982).
- Britain Buys the Trident – Current British Policy for Nuclear Weapons, *Bulletin of the Atomic Scientists* (November 1980), with Harry Dean.
- Military R&D: Institutions, Output and Arms Control. In *American Security and Policy Making: The Dilemmas of Using and Controlling Military Force*, Robert Harkavy and Edward Kolodziej, eds. (Lexington, MA: Lexington Books, 1980).
- Military R&D: Institutions, Output and Arms Control. Symposium on the Use and Control of Force, *Policy Studies Journal* (September 1979). (A shorter version of the above.)
- The Automobile Air Bag. In *The Politics of Technical Decisions*, Dorothy Nelkin, ed. (Beverly Hills, CA: Sage Publications, Inc., 1979). Revised Version, 1984.
- The Control of Technology through Regulation. In *Directing Technology: Policies for Promotion and Control*, Ron Johnson and Philip Gummett, eds. (London: Croom, Helm, 1979).
- U.S. Programs of Military Research and Development: A Set of Questions, *Bulletin of the Atomic Scientists* (May 1978), pp. 3441, with F.A. Long.
- Defense Department Payments for 'Company Financed' R&D, *Research Policy* (1977).
- The Pentagon's Program of IR&D: The Need for Reform, *Bulletin of the Atomic Scientists* (January 1976), with F.A. Long.

OTHER

- Review of Thomas Mahnken, *Technology and the American Way of War* (2008), in *Journal of*

- Cold War Studies* (forthcoming, 2009).
- “Biosecurity” in J. Baird Callicott and Robert Frodeman, eds., *Encyclopedia of Environmental Ethics and Philosophy* (Farmington Hills, MI: Gale/Macmillan Reference USA, 2008).
- A Bio-Medical Military Industrial Complex? Paper presented at the Annual Meeting of the Society for Social Studies of Science, Montreal, CA, 11-13 October 2007.
- The End of Dual Use? Implications for Export Control Policy, Paper presented at the Annual Meeting of the International Studies Association, Chicago, IL. 27 February-3 March, 2007).
- Dual-Use Technology in the New Strategic Environment. Paper presented at the Conference on *Thinking with Einstein*, Berlin, 15 October 2005.
- Explaining Weapons Procurement in the Post-Cold War Era. Paper presented at the PSP/PRIF Workshop on Democracy, Technology, and War: Changing Norms and Strategies after the Cold War, Cornell University, 17-18 September 2004.
- Public Understanding of Science An Ethical Issue? Background Paper prepared for the Pugwash Meeting on The Ethical Responsibilities of Scientists, Ajaccio, Corsica, 10-12 September, 2004.
- The State-Science Relationship in the Age of Homeland Security. Paper presented at the Biotech Society Conference, Helsinki, Finland, 29-30 September 2003.
- The Role of International Standards in NorthSouth Technology Transfer. Paper presented at the Workshop on New Perspectives on Environment and Development, 78 April 2000, BCSIA, Harvard University, Cambridge, MA.
- The United States Dual-Use Policy in Context. Paper presented at the METDAC workshop, 26-28 May 1999, Berlin.
- Changes in the United States RDT Innovative System, 1987-1997. Paper presented at the METDAC meeting, 8-10 October 1998, Budapest (with Bjorn Hagelin).
- Rules, Standards, and Technology Transfer. Paper presented at the 3rd Pugwash Workshop on Implementing the Framework Convention on Climate Change: Challenges to Technology, 26-28 July 1998, Gentofte Denmark.
- Introduction to Peace Studies, in *Teaching About Conflict and Peace Making*, Saadia Touval and Pamela Aall, eds. (Washington, DC: U.S. Institute of Peace, 1997).
- NotsoPublic Knowledge and Technology Transfer Policy. Paper presented at the conference on "The Need for a New Economics of Science, 14-16 March 1997, Notre Dame, IN.
- What Does Economics Have to do with Science Studies (and *vice versa*). Paper presented at CROMTECH, UMIST, Manchester, England, 18 November, 1996.
- Back to the Future: Problems with Dual Use Technology. Paper presented at the Centre for Research in International Security, Manchester Metropolitan University, 12 November 1996 (Also at SIPRI, Stockholm 22 December 1996).
- U.S. Technology Policy and the Republican Congress. Paper presented at the European Seminar on Defence Related Research and Technology in Transition: Issues for Europe, Brussels, 23-4 January 1995.
- Planning Courses on Economic Peace and Security, in *Peace and World Securities Studies: A Curriculum Guide*, 2nd ed., Michael Klare, ed. (Boulder, CO: Lynne Rienner Publishers, Inc., 1994).
- New Technology in the Gendered Workplace, or Why Pushbutton Weapons Have Not Increased Womens Participation in the Military. Paper presented at a workshop on Women in the Military, Cornell University, November 13-14, 1993.
- Defense Industries in the US and Europe: Shrinking, not Converting. Paper presented at the Annual Meeting of the International Studies Association, Acapulco, Mexico, March 23-27, 1993.

Military Applications of Civilian R&D. Paper prepared for Pugwash project on Conversion of Military R&D, February 1993.

Defense Companies Strategies in a Declining Market: Implications for Government Policy. Paper presented at the Annual Meeting of the Peace Science Society (International), Anaheim, CA, January 5-7, 1993.

Swords Into Plowshares? Prospects for Conversion After the Cold War. Paper for Cornell-PRIF conference, September 6-7, 1992.

On the Nature and Scope of Defence Economics: A Comment, *Defence Economics* 2, No. 3 (1991).

Changing Military Industrial Networks: Implications for National Technological Capabilities. Paper prepared for the International Political Science Association meeting, Buenos Aires, Argentina (July 21-25, 1991), with P. Gummert.

Conversion: Finding the Political Will, 40th Pugwash Conference, Egham, U.K., September 1990.

U.S. Defence Industry and a Changing Europe, at Symposium on "Restructuring of Arms Industries in Western Europe," Hamburg, West Germany (June 68 1990).

Competitiveness and Military Research, at OECD conference on "Technology and Competitiveness, Paris, France (June 1990).

The Technological Imperative in Strategic Thought (Review Essay on Barry Buzan, An Introduction to Strategic Studies), *Journal of Peace Research* vol. 27, no. 1 (February 1990).

Science Policy: More for the Military, *Bulletin of the Atomic Scientists* (January/February 1989).

Technology Flows Between the Military and Civilian Sectors: Theory and Evidence. Prepared for the Panel Defense Spending as Technology Policy for the U.S., American Association for the Advancement of Science, January 19, 1989.

Conversion from Military R&D: Economic Aspects. Paper presented at the 38th Pugwash Conference, Dagomys, USSR, August, 1988. Printed in *Global Problems and Common Security*, J. Rotblat and V.I. Goldanskii, eds. (New York: Springer Verlag, 1989).

Technology and Trade: Does Military R&D Make a Difference? Paper presented at the NATO Advanced Research Workshop on The Relationship Between Defence and Civil Technologies, Wiston House, Sussex, England, September 21-25, 1987.

Military Research and Development and International Trade Performance. Paper presented at the annual meeting of the International Studies Association, Washington, D.C., April 1987.

A Reasonable Defense and Defense Choices. Book review in *Bulletin of the Atomic Scientists* (August/September 1986).

U.S. Military R&D and International Trade Performance. Paper presented at the Workshop on the Economic Consequences of Military Spending in the United States and Soviet Union, Cornell University, 9 May 1986.

The Arms Race: Social and Economic Consequences. Book review in *Bulletin of the Atomic Scientists* (December 1985).

Long Term Consequences of Military Spending on the U.S. Economy. Paper presented at the annual meeting of the International Studies Association, Washington, D.C., March 1985.

The Role of Military Research and Development in the Defense Economy: The U.S. Case, in Proceedings of the December 1984 meeting of the Economic Scientific Chamber of Greece, Athens, Greece, 1985.

Interdisciplinary Course: Peace Studies at the University Level, in *Frontiers in Education*, proceedings of a conference sponsored by IEEE and ASEE, Worcester Polytechnic Institute, Oct. 17-19, 1983.

World Military and Social Expenditures: A Review Essay, *Bulletin of the Atomic Scientists* (May

1983).

The Influence of Military R&D on Civilian Technology and Trade. Paper presented at a meeting of the Midwest Political Science Association, Milwaukee, Wisconsin, April 1982.

The Reagan Defense Budget and the U.S. Economy, *Executive*, November 1981. Swedish version published in *Internationella Studier* 6 (1980); Japanese version published in the *Mainichi Newspaper*, Tokyo (December 1981).

U.K. Underestimates Cost of Trident Deterrent, *Nature*, Vol. 283 (January 3, 1980).

Trident The U.S. Experience, *ADIU Report*, Vol. 1, no. 4, (December 1979).