

*Curriculum Vitae*

**ANDREW L. ROSS**

Director, Center for Science, Technology, and Policy  
Professor, Department of Political Science  
University of New Mexico

**Contact Information:**

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**Education:**

PhD	Political Science	Cornell University	1984
MA	Political Science	Cornell University	1981
BA	Political Science	American University	1976

**Research & Teaching Interests:**

Theory and Practice of International Relations  
International and Regional Security Affairs  
National Security and Defense Policy and Planning  
Arms Control  
Military Innovation and Technology  
International & National Arms Markets  
Security and Economics  
Security and Development  
Civil-Military Relations  
Science & Technology Policy

## **Professional Academic Positions:**

Director, Center for Science, Technology, and Policy (the program known until February 2005 as the Office for Policy, Security, and Technology), and Professor, Department of Political Science, University of New Mexico, September 2005-present. Responsibilities include the development of research, education, and public engagement programs. Founder and Chair, New Mexico Nuclear Study Group, 2007 to present. Developed and taught Pol Sci 400/512 International Relations: Theory and Practice (Spring 2006, Spring 2009); Pol Sci 400/512 National Security and Defense Planning (Spring 2007, Spring 2008); Pol Sci 552 Problems (international relations theory directed reading; Spring 2008, Fall 2008).

Professor of Strategic Studies, Strategic Research Department, Center for Naval Warfare Studies, Naval War College, 2000-2005. SRD Director of Studies, July 2002 to August 2004. Director, Defense Industry after Next project, August 2000-September 2002. Co-leader, with CAPT Bryan Lucas, USNR, Strategy Task Group for the global war on terror, September 2001-June 2002. Acting Director, Advanced Research Program, 2001-02 Academic Year. Member, Eurasian Studies Group. Responsibilities also included developing and teaching elective course on International Relations: Theory and Practice (Spring 2003, 2005) and Directed Research Elective on the Global War on Terror, with Peter Dombrowski and CAPT Bryan Lucas (Spring 2002).

Professor of National Security Affairs, National Security Decision Making Department, Naval War College, 1991-2000. Responsibilities included developing and teaching NWC's core courses on Strategy and Force Planning (Fall 1992-Spring 2000) and Force Planning (Fall 1991-Spring 1992) and elective courses on International Relations: Theory and Practice, (Spring 1995, 1996, 1997, 1998, 1999, 2000) and Asian Politics, Economics, and Security (Spring 1992, 1993, 1994).

Secretary of the Navy Senior Research Fellow, National Security Decision Making Department, Naval War College, 1989-1991. Responsibilities included research and developing and teaching course on Force Planning (Fall 1989, Fall 1990).

Assistant Professor, Department of Political Science, with a joint appointment in the Patterson School of Diplomacy and International Commerce, and Associate Member of the Graduate Faculty, University of Kentucky, 1986-1990 (on leave 1989-1990 academic year). Responsibilities included developing and teaching the following courses: World Politics (Fall 1986, Spring 1987, Spring 1988, and Spring 1989), National Security Policy (Fall 1986, Fall 1987, and Fall 1988), Proseminar in Theories of International Politics (Fall 1987 and Fall 1988), Current Research in Political Science: International Security (Spring 1987 and Spring 1988), Current Research in Political Science: American Foreign Policy (Spring 1989).

Visiting Assistant Professor, Department of Political Science, University of Illinois, 1985-1986. Responsibilities included developing and teaching the following courses: The Emerging Nations (Fall 1985), Introduction to International Relations (Spring 1986), National Security Policy (Spring 1985), International Relations (Fall 1985).

Visiting Assistant Professor, Department of Political Science, Vassar College, 1984-1985. Responsibilities included developing and teaching the following courses: International Politics (Fall 1984 and Spring 1985), The Foreign Policy of the United States (Fall 1984), Seminar in International Political Analysis (Spring 1985).

### **Nonacademic Professional Experience:**

Consultant, Social Science Department, The Rand Corporation, 1980-1982.

Consultant in the Summer Student Program, The Rand Corporation, Summer 1980. Worked with Arthur Alexander, Associate Head, Economics Department, on a study of defense industries in developing countries.

Professional Level Intern, GS-9, at the U.S. Arms Control and Disarmament Agency, Summer 1979. Worked with Maurice Eisenstein, Head, Technology Transfer Group, Bureau of Weapons Evaluation and Control, on an interagency study of conventional arms production in developing countries.

### **Fellowships, Contracts, Grants, and Honors:**

Principal Investigator/Project Manager, Defense Threat Reduction Agency-funded project on WMD Threat Forecasting, July-December 2009 (assumed Project Manager position as of 1 July 2009; joined project in May 2008).

Principal Investigator, Defense Threat Reduction Agency contract award, DTRA01-03-D-0009, for "Training and Education Alliance Subproject," August 2008-August 2009 (\$162,152).

Award, Institute for Advanced Studies at Los Alamos National Laboratories, for "A CSTP / New Mexico Nuclear Study Group Workshop: What Role, If Any, for Nuclear Weapons?" September 2008 (\$13,502).

Principal Investigator, Sandia National Laboratories contract award, for "CSTP/New Mexico Nuclear Study Group Workshop," June-September 2008 (\$88,267).

Co-PI, with Timothy Moy, Mark Ondrias, and Amelia Rouse, Interdisciplinary RAC Grant for "The Fine Structure of Public Attitudes about Evolutionary Biology," University of New Mexico, February 2006.

Department of the Navy Meritorious Civilian Service Award, 6 September 2002. Awarded for leadership of the Naval War College's Strategy Task Group from 2001-2002. The Strategy Task Group developed a series of Newport Papers on the global war on terror for senior Navy leadership in Washington, DC.

Hugh G. Nott Prize for the best article in the *Naval War College Review* during the year 2001. Awarded 9 August 2002 for "Thinking About the Unthinkable: Unreasonable Exuberance?" *Naval War College Review*, Vol. LIV, No. 2 (Spring 2001), pp. 36-46.

Professional Achievement Award, Naval War College, 31 January 2002.

Jerome E. Levy Chair of Economic Geography & National Security, Naval War College. Appointed as the first holder of the Naval War College's first endowed chair on 15 June 1998. Held Levy Chair, a teaching position, until assuming a research position in the College's Center for Naval Warfare Studies in August 2000.

Academic Specialist Grant, United States Information Agency, to conduct a political science project in Argentina from 16 November to 2 December 1991.

Secretary of the Navy Senior Research Fellowship, Naval War College, 1989-1990 and 1990-1991 academic years.

Summer Faculty Research Fellowship, Office of the Dean of the Graduate School and Vice Chancellor for Research, University of Kentucky, Summer of 1988.

Grant for research project on "The International Arms Trade and Arms Acquisition in the Developing World: Arms Imports and Local Defense Production," Institute of Southeast Asian Studies, 1988.

Special Summer Faculty Research Fellowship from the Singletary Fund for Excellence, Office of the Dean of the Graduate School and Vice Chancellor for Research, University of Kentucky, Summer 1987.

Research Committee Grant, Office of the Dean of the Graduate School and Vice Chancellor for Research, University of Kentucky, Spring 1987.

New Prospect Foundation Postdoctoral Fellowship, Program in Arms Control, Disarmament, and International Security, University of Illinois, Summer 1985.

Olin Postdoctoral Fellowship, National Security Studies Group, Center for International Affairs, Harvard University, 1983-1984.

Olin Pre-Doctoral Fellowship, National Security Studies Group, Center for International Affairs, Harvard University, 1982-1983.

Research Grant from the Peace Studies Program, Cornell University, Fall 1982.

Hubert H. Humphrey Fellowship in Arms Control and Disarmament. Awarded by the U.S. Arms Control and Disarmament Agency, 1981-1982.

Honorary Graduate Student Research Associate in the National Security Studies Group, Center for International Affairs, Harvard University, 1981-1982 and 1982-1983.

Research Grant from the Institute for the Study of World Politics, 1980-1981. Funded dissertation research in Brazil, India, South Korea, and the Philippines.

John Parker Compton Pre-Doctoral Fellowship, Center of International Studies, Princeton University, 1980-1981.

Peace Studies Fellowship, Peace Studies Program, Cornell University, 1977-1978.

Summa Cum Laude graduate, American University, 1976.

### **Professional Activities:**

Invited project participant (funded), Nuclear Futures Project, a collaborative effort between the Johns Hopkins University Applied Physics Laboratory (JHU/APL), the Paul H. Nitze School of Advanced International Studies, and the Zanvyl Krieger School of Arts and Sciences, August-October 2009. Presentation on “The Role of Nuclear Weapons in the Cold War,” 19-21 August 2009 workshop.

Participant (funded), conference on “Managing Nuclear Weapons: Reductions, Drawdown, and Elimination—What Makes Sense” Wilton Park, UK, in partnership with the Defense Threat Reduction Agency, Lawrence Livermore National Laboratory, and the USAF Institute for National Security Studies, 18-21 June 2009

Member, National Media Information Program, The National Museum of Nuclear Science and History, Albuquerque, NM, April 2009-present.

Invited participant, USAF Institute for National Security Studies “Topic Development Workshop,” Crystal City, VA, 23 April 2009.

Presentation on “The Role of Nuclear Weapons in International Politics,” Foreign Policy Research Institute’s Wachman Center’s History Institute on “Teaching the Nuclear Age,” cosponsored by the American Academy of Diplomacy and the Atomic Testing Museum, Las Vegas, NV, 28-29 March 2009.

Presentation on “U.S. Grand Strategy Challenges and Choices for the New Administration,” Humanist Society of New Mexico, 24 January 2009, School of Law, University of New Mexico, Albuquerque, NM.

Presentation on “U.S. Grand Strategy for the Next Administration: Beyond Strategic Triage,” Albuquerque Committee on Foreign Relations, 29 October 2008, Albuquerque, NM.

Organized the CSTP/New Mexico Nuclear Study Group workshop on “What Role, If Any, For Nuclear Weapons? (And Just How Many, If Any, Are Needed?),” 11-12 September 2008, Hyatt Regency Tamaya, Santa Ana Pueblo, New Mexico.

Invited participant, 7th Annual Strategic Concepts Roundtable, “Arms Control in the 21st Century: Framing the Issues,” sponsored by the Defense Threat Reduction Agency, Advanced Systems and Concepts Office, and hosted by the Air Force Institute for National Security Studies, USAF Academy, Colorado Springs, CO, 12-14 August 2008.

Invited participant, Second Annual Teaming Conference of the Institute for Advanced Studies at Los Alamos National Laboratory and the New Mexico Consortium, 22-23 May 2008, New Mexico State University, Las Cruces, NM.

Invited participant, “WMD Threat Forecasting Methods Workshop,” Defense Threat Reduction Agency, ASCO, 7-8 May 2008, Lorton, VA.

Organizer and Chair, “New Mexico Nuclear Study Group—A Roundtable,” 83rd Annual Meeting—“Meeting Today’s Challenges Through Collaborative Science, Engineering, and Technology”—American Association for the Advancement of Science, Southwestern and Rocky Mountain Division, University of New Mexico, Albuquerque, NM, 9-12 April 2008.

Organizer and participant, “Busting Through: Interdisciplinary Research and Education at the University of New Mexico—A Roundtable,” 83rd Annual Meeting—“Meeting Today’s Challenges Through Collaborative Science, Engineering, and Technology”—American Association for the Advancement of Science, Southwestern and Rocky Mountain Division, University of New Mexico, Albuquerque, NM, 9-12 April 2008.

Invited participant, Strategic / Nuclear Workforce Summit, Defense Threat Reduction Agency, Kirtland AFB, NM, 13 December 2007.

Discussant, panel on “The ESDP Yesterday and Today,” at the Sixth Pan-European International Relations Conference—“Making Sense of a Pluralist World”—of the Standing Group on International Relations, European Consortium for Political Research, University of Turin, Italy, 12-15 September 2007.

Invited participant, “40th Anniversary Safeguards Symposium,” Los Alamos National Laboratory, Los Alamos, NM, 16-17 July 2007.

Organized and conducted initial meeting of the New Mexico Nuclear Study Group, with participants from Los Alamos National Laboratory, Sandia National Laboratories, and the University of New Mexico; Los Alamos National Laboratory, Los Alamos, NM, 12 July 2007.

Participant, and speaker for session on “Science and Society,” the First Annual Workshop of the New Mexico Consortium’s Institute for Advanced Studies at Los Alamos National Laboratory, held at the New Mexico Institute of Mining and Technology, Socorro, NM, 20-21 April 2007.

Participant, American Association for the Advancement of Science Leadership Seminar in Science and Technology Policy, Washington, DC, 13-17 November 2006.

Chair and discussant, panel on “Terrorism I: Asymmetry, NetWar, and Changing Design of Institutions,” at the 2006 Annual Conference of the International Security and Arms Control Section of the American Political Science Association and the International Security Studies Section of the International Studies Association on “Security, Globalization, and Mass Society in the Global Information and Terrorism Age,” Tucson, AZ, 26-28 October 2006. Cosponsored by the School of Public Administration and Policy and the Department of Management Information Systems Eller Security Lab, Eller College of Management, University of Arizona; the Institute for National Security Studies, U.S. Air Force Academy; and Tucson Committee on Foreign Relations.

Developed and organized, with Women in International Security and Sandia National Laboratories, symposium on “The Reliable Replacement Warhead Program and The Future of the U.S. Nuclear Weapons Complex,” University of New Mexico, 29 September 06.

Developed and organized, with Anita Obermeier, the Director of the Feminist Research Institute, “A Forum on Opportunities and Challenges for Women in Science and Engineering,” University of New Mexico, 29 March 2006.

Discussant, panel on “How Terrorist Organizations Learn and Change,” and panel on “Military Transformation and Network Centric Warfare in OEF, OIF, and the GWOT,” at the 47th Annual Convention of the International Studies Association, San Diego, CA, 22-25 March 2006.

Invited participant, the 2006 Joint Operations Symposium, “Implementing the 2006 Quadrennial Defense Review,” Institute for National Strategic Studies, National Defense University, Fort Lesley J. McNair, Washington, DC, 16-17 March 2006.

Member of the team that interviewed former Secretary of Defense William Perry for the William J. Clinton Presidential History Project, Presidential Oral History Program, Miller Center of Public Affairs, University of Virginia. The interview took place at Stanford University on 21 February 2006.

Briefing, "Military Transformation and the Defense Industry after Next," Sandia National Laboratories, Albuquerque, NM, 21 April 2005.

Invited participant, "Sea Power 21 Allies Project Workshop," sponsored by USN International Programs Office and the Naval War College and hosted by the Center for Naval Analysis, 15 April 2005.

Invited participant, conference on "Facts and Myths of Global Defense Cooperation and Trade," sponsored by the Center for Strategic and International Studies and the MOU Attachés Group, Washington, DC, 14 April 2005.

Presentation on "U.S. Grand Strategy Choices and Challenges" for panel on "Global Challenges and Choices," at conference on "A Nation at War: Reconciling Ends and Means," Naval War College, 7-8 March 2005. A short paper based on the presentation is to be included in the forthcoming conference proceedings.

Presentation on "Transformation: What Is It? What Does It Mean for Industry?" during session on "What Do We Mean by Defense Transformation?" at conference on "Defense Transformation in the Asia-Pacific Region," sponsored by PACOM's Asia-Pacific Center for Security Studies, 30 March-1 April 2004, Honolulu, HI.

Speaker, panel on "Operational Aspects of Taiwan's Defense Reform," at conference on "Taiwan's Defense Reform: Key Issues," organized by the Institute for Taiwan Defense and Strategic Studies and sponsored by the Ministry of Foreign Affairs, Ministry of National Defense, Mainland Affairs Council, Research Development and Evaluation Commission, and National Security Bureau, 29 February-1 March 2004, Taipei, Taiwan.

Invited participant, "Security Planning & Military Transformation after Iraqi Freedom," the 34th IPFA-Fletcher Conference on National Security Strategy and Policy, 2-3 December 2003, Washington, DC. Jointly sponsored by the Institute for Foreign Policy Analysis, the Fletcher School of Law and Diplomacy, the United States Navy, and the Defense Threat Reduction Agency.

Briefing, "United States Predominance: What is to be Done? U.S. Grand Strategy Alternatives," Asia Pacific Studies Group Mid-Term Review 2003 Workshop, Japanese Maritime Self-Defense Force Staff College, Tokyo, Japan, 19-20 November 2003.

Panelist, "Transforming the Military-Industrial Complex: A Supply-Side Briefing on the Future of the Defense Industry," American Enterprise Institute, Washington, DC, 10 October 2003.

Briefing, "Military Transformation and the Defense Industry after Next," National Conference of Editorial Writers, Newport, RI, 19 September 2003.

Developed, with CAPT Jack Dalrymple, USNR, the 2003 Secretary of the Navy's Current Strategy Forum on "U.S. Grand Strategy and Sea Power for the 21st Century," Naval War College, Newport, RI, 17-18 June 2003.

Briefing (with Peter Dombrowski), "Military Transformation and the Defense Industry after Next," at "Ship Tech 2002," a conference sponsored by the Office of Naval Research. Biloxi, MS, 16 January 2003.

Participant, "Transforming Defense: A Current Assessment and the Road Ahead," Center for Naval Analyses 2002 Annual Conference, Arlington, VA, 20-21 November 2002.

Briefing (with Peter Dombrowski), "Military Transformation and the Defense Industry after Next," at the "New Horizons Symposium," sponsored by the Armed Forces Communications & Electronics Association and the USAF Electronic Systems Center, Bedford, MA, 30 October 2002.

Chair, panel on "The Day After," at workshop on "The Future of Iraq and U.S. Policy Options," Center for Naval Warfare Studies, Naval War College, Newport, RI, 18-19 July 2002.

Organizer, with Carnes Lord, of symposium on Strategic Forces and Missile Defense," Center for Naval Warfare Studies, Naval War College, 30 April 2002. Presented briefing on "The Evolving U.S. Nuclear Posture" and served as Moderator for session on "The International Context."

Discussant, panel on "The Political Economy of War and Peace," Annual Meeting of the International Studies Association," New Orleans, 24-27 March 2002.

Participant, "Teaching Grand Strategy: A Professional Development Workshop," sponsored by International Security Studies, Yale University, and the Naval War College, Newport, RI, 15-16 February 2002.

Chair, panel on "Major Independents" and speaker on "Summary and Discussion" panel, for The Atlantic Council conference on "Globalization of Defense Industries," Washington, DC, 16 November 2001.

Participant, symposium on "Building a Vision: NATO's Future Transformation," hosted by HQ Norwegian Defence Command, Allied Command, Atlantic, and United States Joint Forces Command, Oslo, Norway, 5-7 September 2001.

Moderator, Panel No. 3, "What Can Defense Transformation Achieve and What Will it Cost?" Current Strategy Forum, Naval War College, Newport, RI, 12-13 June 2001.

Participant, conference on "The Future of Maritime Competition and Naval Innovation," sponsored by the Center for Strategic and Budgetary Assessments and the Naval War College, Washington, DC, 8 February 2001.

Invited participant, conference on "Alternative Military Strategies for the United States," Georgetown University, 21 September 2000. Sponsored by the Georgetown University National Security Studies Program and Center for Peace and Security Studies, in conjunction with the U.S. Army Strategic Studies Institute.

Participant, workshop on "Teaching Grand Strategy," sponsored by International Security Studies, Yale University, New Haven, CT, 23-24 June 2000.

Invited participant, workshop on "Planning for the Future: Assuring U.S. WMD Critical Skills and Staffing," at Institute for National Strategic Studies, National Defense University, 17 December 1999. Sponsored by the Institute for Foreign Policy Analysis; the Center for Counterproliferation Research, NDU; and the Defense Threat Reduction Agency.

Invited participant, conference on "Alternative Futures in War and Conflict: Implications for U.S. National Security," organized by the Center for Naval Warfare Studies and co-sponsored by the National Intelligence Council, the Defense Intelligence Agency, and the Pell Center for International Relations and Public Policy, 30 November-2 December 1999. Served as co-moderator of roundtable on "Future of War and Conflict."

Discussion of "WMD Issues," Newport Circle of Scholars, Newport, RI, 30 March 1999.

Developed and presented, with Peter Dombrowski, a briefing on "Globalization of Defense Industries and Technologies," for MG John Landry, National Intelligence Officer, General Purpose Forces, 29 March 1999.

Supported preparation of Decision Support Department, Center for Naval Warfare Studies, Naval War College, for an Economic Security Exercise: South Asia Proliferation Project, 10 March 1999.

Invited participant, conference on "The Future of War," St. Petersburg, Russia, 24-27 February 1999. Sponsored by the Dutch Foundation for War Studies.

Discussant, panel on "The Diffusion of Military Technology," at the Annual Meeting of the International Studies Association, Washington, DC, 17 February 1999.

Invited participant, third research workshop on "The Diffusion of Military Technology," at the UC Davis Washington Center, 18-19 February 1999. Sponsored by the UC Davis and the Naval Postgraduate School's Joint Center for International and Security Studies and funded by the Smith Richardson Foundation.

Course design consultant, Defense Leadership & Management Program (DLAMP). Participated in course design reviews of "Roots of Strategy" and "International Issues in Defense," 16 February 1999 and 16 December 1998.

Invited participant, second research workshop on "The Diffusion of Military Technology," at the Monterey Institute of International Studies, Monterey, CA, 7-8 August 1998. Served as Moderator of Roundtable on "Technological Change and Diffusion." Sponsored by the UC Davis and the Naval Postgraduate School's Joint Center for International and Security Studies and funded by the Smith Richardson Foundation

Invited participant, research workshop on "The Diffusion of Military Knowledge, Technology, and Practice: International Consequences of Military Innovation," University of California,

Davis, 6-7 February 1998. Sponsored by the UC Davis and the Naval Postgraduate School's Joint Center for International and Security Studies and funded by the Smith Richardson Foundation.

Invited participant, "Strategic Concepts Workshop," Center for Naval Warfare Studies, U.S. Naval War College, 18-19 September 1997. Served as respondent to papers presented by John Lewis Gaddis, Robert Jervis, and Edward A. Kolodziej at panel on "Strategic Concepts and Coercive Operations."

Member, since its establishment in 1994, of the Working Group on "Post-Cold War Curriculum on Nuclear and Other Weapons of Mass Destruction (WMD)-Related Issues." Sponsored by the Institute for Foreign Policy Analysis, coordinated by Robert Pfaltzgraff, and funded by the Defense Threat Reduction Agency. Prepared, with Gary Guertner, "Proliferation, Nonproliferation, and Counterproliferation: A Course Module."

Invited participant, workshop on "Managing the Challenge of Technology Diffusion." Chaired by Ronald Lehman and organized under the auspices of the Chemical and Biological Arms Control Institute. The Capitol, Washington, DC, 7 December 1995.

Speaker, with Barry Posen, on "Competing U.S. Grand Strategies," U.S. Foreign Policy Seminar, Center for International Affairs, Harvard University, 9 October 1995.

Invited by Rear Admiral D. A. Weiss, Director for Operations, Defense Nuclear Agency, to attend and critique pilot offering of the Counterproliferation Awareness Course at the Defense Nuclear Agency's Interservice Nuclear Weapons School, Kirtland AFB, Albuquerque, NM, 11-13 September 1995.

Presentation on "Proliferation," Newport Center for International Visitors, 21 March 1995.

Invited participant, symposium on "The Nuclear Non-Proliferation Regime: Post-Cold War Perspectives," Marquette University, Milwaukee, WI, 13-14 May 1994. Speaker at panel on "What are the Prospects for Nuclear Arms Control and Verification?"

Chair and discussant, panel on "The UN Register of Conventional Armaments," 35th Annual Meeting of the International Studies Association, Washington, DC, 28 March-1 April 1994.

Invited participant, workshop on "The Chemical Weapons Convention: Anticipating U.S. Ratification and 1995 Entry into Force," Center for Strategic and International Studies, Washington, DC, 31 March 1994.

Naval War College representative at Senior Service School workshop on "Counterproliferation Education," National Defense University, 2 December 1994.

Invited participant, conference on "Managing Chaos: Coping with International Conflict in the 21st Century," U.S. Institute of Peace, Washington, DC, 30 November-1 December 1994.

Invited participant, workshop on "The Arms Trade and Arms Control in the Post-Cold War World: Future Trends and Developments," Columbia University, 4-5 November 1993.

Invited participant, conference on "Military Coalitions and the United Nations: Implications for the U.S. Military," National Defense University, Ft. McNair, Washington, DC, 2-3 November 1993.

Invited participant, conference on "Implementing Arms Control," organized by the Defense Nuclear Agency and the U.S. Strategic Command and hosted by the U.S. Strategic Command, Offutt AFB, 21-22 October 1993.

Invited participant, Fourth Annual Arms Control & Verification Conference, "New Horizons and Challenges in Arms Control and Verification," organized by the John C. Tower Center for Political Studies, Southern Methodist University, and sponsored by the Advanced Research Projects Agency, Dallas, 15-17 October 1993.

Organizer of panel on "The Evolving World Order and Applied Theory in International Security" for the 34th Annual Meeting of the International Studies Association, 23-28 March 1993, Acapulco, Mexico.

Chair and co-organizer of panel on "The Diffusion of Conventional and Unconventional Weapons: Weapons, Technologies, and Regional Contexts," and co-organizer of panel on "The Diffusion of Conventional and Unconventional Weapons: What Is To Be Done?" for the 33rd Annual Meeting of the International Studies Association, 31 March-4 April 1992, Atlanta, GA.

Invited speaker, panel on "Post-Cold War Arms Trade," at the Annual Meeting of the American Association for the Advancement of Science, Chicago, IL, 6-11 February 1992.

Invited speaker, panel on "Models for Explaining the Spread of Weapons," at workshop on Global Diffusion of Military Technology, University of Wisconsin, Madison, 6-8 December 1991.

Invited participant, International Working Conference on the Arms Trade, New York, NY, 31 October-2 November 1991.

Conference Co-Director, "Strategy and Forces for a Changing Security Environment," U.S. Naval War College, 14-16 August 1991.

Chair and organizer of panel on "A Changing Arms Market," for the 32nd Annual Meeting of the International Studies Association, 19-23 March 1991, Vancouver, BC.

Invited speaker for session on "The Political Economy of International Arms Production and Transfers," 1990 Summer Institute on Regional Conflict and Global Security in the 1990s,

Center for International Cooperation and Security Studies, University of Wisconsin -- Madison, 13-20 July 1990.

Invited speaker for Great Decisions 1990 session on "Third World Arms Bazaar: Disaster for Sale?" World Affairs Council of Boston, 8 May 1990.

Chair and organizer of panel on "Perspectives on Change in the International Arms Market," for the 31st Annual Meeting of the International Studies Association, 10-14 April 1990, Washington, D.C.

Invited participant, "International Arms Collaboration: Problems and Prospects" workshop, sponsored by the Economics and National Security Program, Olin Institute for Strategic Studies, Center for International Affairs, Harvard University, 8 November 1989.

Chair and organizer of panel on "Developing Countries and International Security Affairs," for the 85th Annual Meeting of the American Political Science Association 31 August-3 September 1989, Atlanta, GA.

Chair, panel on "Defense Costs vs. Military Effectiveness," at the joint Annual Meeting of the International Studies Association and the British International Studies Association, 28 March-1 April 1989, London.

Invited participant, American Academy of Arts and Sciences workshop on "Burden-Sharing in the West Pacific," 25 February 1989, University of California, Irvine.

Discussant, panel on "Hegemony in International Regimes," 84th Annual Meeting of the American Political Science Association, 1-4 September 1988, Washington, D.C.

Invited participant, Summer Institute on "Regional Conflict and Global Security: The Nuclear Dimension." Sponsored by the Center for International Cooperation and Security Studies, University of Wisconsin, Madison, 17-24 June 1988.

Chair and co-organizer of panel on "Dominance and Dependence in the International System: Alternative Analytical Perspectives," for the 29th Annual Meeting of the International Studies Association, 29 March-2 April 1988, St. Louis, MO.

Co-chair of Roundtable on "Arms Sales and Technology Transfer," at the 39th Annual Student Conference on United States Affairs, "Global Change: Implications for U.S. Leadership," sponsored by the United States Military Academy, West Point, NY, 18-21 November 1987.

Chair and organizer of panel on "The Political Economy of Defense: Issues and Perspectives," for the Annual Meeting of the American Political Science Association, 3-6 September 1987, Chicago, IL.

Chair and organizer of panel on "The Political Economy of Defense," for the 28th Annual Meeting of the International Studies Association, 15-18 April 1987, Washington, D.C.

Discussant, panel on "First World Decisions and Third World Effects," at the Annual Meeting of the American Political Science Association, 28-32 August 1986, Washington, D.C.

Faculty participant at Strategy '86, a conference sponsored by Defense and Foreign Affairs and the International Strategic Studies Association in Crystal City, VA, June 1986.

Discussant, panel on "The Military in Marxist and Developing Nations," at a conference sponsored by the Section on Military Studies, International Studies Association, 9 November 1985, at the University of Illinois, Urbana-Champaign.

Co-Chair, Seminar on North-South Relations, Center for International Affairs, Harvard University, Spring 1984.

Chair and organizer of panel on "Emergent Third World Powers: The New Imperialists?" for the Annual Meeting of the International Studies Association, March 1984, Atlanta, GA.

Invited participant, workshop on "Development and National Security: Growth, Equity, and Defense in Developing Countries," Fletcher School of Law and Diplomacy, April 1982.

#### **Institutional Research Affiliations:**

Affiliate, Center for International Affairs, Harvard University, 1993-1994.

Associate, Center for International Affairs, Harvard University, 1989-1993.

Visiting Scholar, Program in Arms Control, Disarmament, and International Security, University of Illinois, 1987-1988.

Visiting Fellow, Center for International Development and Conflict Management, University of Maryland, Summer 1987.

Faculty Associate, Program in Arms Control, Disarmament, and International Security, University of Illinois, 1985-1986.

#### **Professional Organization Affiliations:**

Member, American Association for the Advancement of Science, 2006-present.

Member, Coalition for a Realistic Foreign Policy, 2003-present.

Fellow, Inter-University Seminar on Armed Forces and Society, 1986-present.

Member, American Political Science Association, 1983-2008.

Member, Arms Control Association, 1981-present.

Member, International Studies Association, 1979-present.

Member, League of American Cyclists, 1997-present.

Member, Narragansett Bay Wheelmen, 1998-2005.

### **Service—University of New Mexico**

Member and Chair, Executive Committee, Special Science and Engineering Research Initiatives, Office of the Vice President for Research, May 2009-present.

Member, DTRA Program Review Committee, Office of the Vice President for Research, July-December 2008.

At the request of the Office of Vice President for Research, provided briefing on CSTP defense-related work for delegation of National Defense University International Counterterrorism Fellows, 13 November 2008.

Member, Steering Committee, UNM Consortium on Collaborative Public Policy.

Chair, Committee on Studies, Eric Wallace, 2008 to present.

Chair, Committee on Studies, Benjamin Bonin, 2007 to present.

Co-Convener, UNM Public Policy Capabilities Working Group, Fall 2006 to present.

Member, Political Science Department Search Committee for Director of the Institute for Public Policy, 2006-07 AY.

Member, UNM Consortium on Collaborative Public Policy, Summer 2006 to present.

Member, IPP Working Group, Spring-Summer 2006.

Member, LANL Institute for Advanced Studies Faculty Working Group, March 2006-present.

Member, School of Public Administration Tenure Committee, Spring 2006.

Member, Political Science Department Executive Committee, 2005-06 AY.

**College & Department Service—Naval War College:**

Member, Naval War College Foundation Prize Committee, Spring 2004.

Mentor, Mahan Scholars Program, 2000-2003.

Member, Academic Policy Review Board.

Member, NSDM Faculty Excellence Committee.

NSDM Library Liaison.

Member, Robert E. Batemans International Prize Committee, Spring 1996.

Recurring faculty support provided to: Naval Staff College; Senior Enlisted Academy; College of Continuing Education.

**Department Service—University of Kentucky:**

Co-Chair, Minority Enhancement Committee, 1988-89 AY. Assumed major responsibility for planning and organizing symposium on "Black Political Empowerment and the Public Policy Agenda: 1988 and Beyond," held November 17-18, 1988, at the University of Kentucky.

Library Liaison, 1988-89 AY.

Member, Graduate Program Committee, 1987-88 AY.

Member, Review Committee on Courses Required in PhD Program, 1987-88 AY.

Member, Undergraduate Program Committee, 1986-87 AY.

**Professional Service:**

Member, International Editorial Advisory Board, *Taiwan Defense Affairs*.

Member, The Marshall Center Papers Editorial Advisory Board, The George C. Marshall Center for Security Studies.

Manuscripts/proposals reviewed for:

*American Political Science Review*  
*Armed Forces & Society*

Columbia University Press  
*Cooperation and Conflict*  
*Defense Economics*  
Frank Cass  
*International History Review*  
*International Interactions*  
*International Organization*  
*International Politics*  
*International Security*  
*International Studies Perspectives*  
*International Studies Quarterly*  
*Marshall Center Papers*  
*Naval War College Review*  
Prentice-Hall  
Routledge  
*Technological Forecasting and Social Change*

**Media Interviews:**

*Army Times*  
*Boston Globe*  
*Business 2.0*  
*Business Week*  
*Defense Daily*  
*Defense News*  
*Die Zeit*  
*Inside Defense*  
Media General News Service  
MSNBC  
*New York Times*  
*Seapower*  
*Sun Journal* (Lewiston, ME)  
*Wall Street Journal*  
*Washington Post*  
WGBH

**International Travel:**

Argentina, Austria, Bolivia, Brazil, Britain, Canada, Colombia, Chile, France, East Germany, West Germany, Germany, Hong Kong, Hungary, Iceland, India, Italy, Japan, South Korea, Luxembourg, Malaysia, Mexico, Norway, Peru, Philippines, Poland, Russia, Singapore, Soviet Union, St. Lucia, Sweden, Taiwan

## **Publications—Edited Works and Monographs:**

*Military Transformation and the Defense Industry after Next: The Defense Industrial Implications of Network-Centric Warfare*, with Peter Dombrowski and Eugene Gholz, Newport Paper No. 18, (Newport, RI: U.S. Naval War College Press, 2003). The final report of the Naval War College's Defense Industry after Next Project, which was completed in September 2002.

*Newport Papers: National Security Strategy after 9/11/01*, CD-ROM, (Newport: U.S. Naval War College, 2002). A collection of the Naval War College's point papers on the global war on terror produced for the office of the Chief of Naval Operations; includes the 27 papers I developed and edited (with CAPT Bryan Lucas, USNR) as a leader of the Strategy Task Group during the 2001-02 academic year.

Editor, with Richmond M. Lloyd et al., *Strategy and Force Planning*, 3rd ed., (Newport: U.S. Naval War College Press, 2000).

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Editor, *The Political Economy of Defense: Issues and Perspectives*, (Westport: Greenwood Press, 1991).

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*Arms Production in Developing Countries: The Continuing Proliferation of Conventional Weapons*, (Santa Monica: The Rand Corporation, N-1615-AF, October 1981).

## **Publications—Articles and Chapters:**

“From Bullets and Bombs to Bits and Bytes: U.S. Military Transformation or Business As Usual?” In Andrew D. James, ed., *The Dynamics of Innovation in the Defence Sector: Economics, Technology and the New Security Environment* (Cheltenham, UK and Northampton, MA: Edward Elgar, forthcoming 2009).

“Global Governance, Security Governance, and an Imperious United States,” in Charlotte Wagnsson, James A. Sperling, and Jan Hallenberg, eds., *European Security Governance: The European Union in a Westphalian World* (London and New York: Routledge, 2009), pp. 79-93.

“The Role of Nuclear Weapons in International Politics: A Strategic Perspective,” Foreign Policy Research Institute, *Footnotes*, Vol. 14, No. 5, May 2009. Available at <http://www.fpri.org/footnotes/1405.200905.ross.nuclearweaponsintlpolitics.html>.

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“A Progressive EU, a Problematic United States: An Exceptional Experiment Contends with American Exceptionalism” in Kjell Engelbrekt and Jan Hallenberg, eds., *The European Union and Strategy: An Emerging Actor* (London and New York: Routledge, 2008), pp. 167-183.

“The 'New Strategic Triangle' and the U.S. Grand Strategy Debate,” with Peter Dombrowski, in Jan Hallenberg and Håkan Karlsson, eds., *Changing Transatlantic Security Relations: Do the US, the EU and Russia Form a New Strategic Triangle?* (London: Routledge, 2006), pp 146-166.

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"The Arming of the Third World: Patterns and Trends," *SAIS Review*, Vol. 11, No. 2 (Summer-Fall 1991), pp. 69-95. Originally presented as a paper at the 32nd Annual Meeting of the International Studies Association, March 19-23, 1991, Vancouver, BC.

"Do-It-Yourself Weaponry," *The Bulletin of the Atomic Scientists*, Vol. 46, No. 4 (May 1990), pp. 20-22.

"Growth, Debt, and Military Spending in Southeast Asia," *Contemporary Southeast Asia*, Vol. 11, No. 4 (March 1990), pp. 243-264.

"The International Arms Trade, Arms Imports, and Local Defence Production in ASEAN," in Chandran Jeshurun, ed., *Arms and Defence in Southeast Asia*, (Singapore: Institute of Southeast Asian Studies, 1989), pp. 1-40. Originally presented as a paper at a workshop on "Defence and Development in Southeast Asia: Arms Procurement Policies and Their Implications," Institute of Southeast Asian Studies, Singapore, 29 September-1 October 1988.

"Full Circle: Conventional Proliferation, the International Arms Trade, and Third World Arms Exports," in Kwang-il Baek, Ronald D. McLaurin, and Chung-in Moon, eds., *The Dilemma of Third World Defense Industries: Supplier Control or Recipient Autonomy?* (Boulder: Westview Press, 1989), pp. 1-31. Presented as "Arms Exports from the Third World and the International Arms Trade: An Empirical Analysis," at the 26th Annual Meeting of the International Studies Association, 5-9 March 1985, Washington, D.C.

"On Arms Acquisition and Transfers," in Edward A. Kolodziej and Patrick Morgan, eds., *National Security and Arms Control: A Reference Guide to Theory and Practice*, (Westport, CT: Greenwood Press, 1989), pp. 97-120.

"Arms Acquisition and National Security: The Irony of Military Strength" in Edward E. Azar and Chung-in Moon, eds., *National Security in the Third World: The Management of Internal and External Threats*, (Aldershot: Edward Elgar Publishing Limited, for The Center for International Development and Conflict Management, 1988), pp. 152-187. Also presented as a paper at the Annual Meeting of the International Studies Association -- South, 6-8 November 1986, Atlanta, GA.

"Dimensions of Militarization in the Third World," *Armed Forces & Society*, Vol. 13, No. 4 (Summer 1987), pp. 561-578. Also presented as a paper at the 27th Annual Meeting of the International Studies Association, 25-29 March 1986, Anaheim, CA.

"Military Dependence and Arms Production in the Third World" and "Trends in Third World Arms Exports," in Charles B. Perkins, ed., *Strategy '86: Conference Proceedings*, (Washington, D.C.: Defense & Foreign Affairs Conferences, Inc., 1987). Presented at Strategy '86, a conference sponsored by Defense and Foreign Affairs and the International Strategic Studies Association and held in Crystal City, VA, June 1986.

"World Order and Arms Production in the Third World," in James E. Katz, ed., *Third World Military Industrialization: Sowing the Serpents' Teeth*, (Lexington, MA: D.C. Heath, 1986), pp. 277-292.

"Upgrading Weapons in the Third World," *Technology Review*, Vol. 88, No. 3 (April 1985).

"The Philippines," in James E. Katz, ed., *Arms Production in Developing Countries: An Analysis of Decision Making*, (Lexington, MA: D.C. Heath, 1984), pp. 279-300.

### **Conference/Workshop Papers:**

"Global Governance, Security Governance, and the System Hegemon." A paper presented at the 50<sup>th</sup> Annual Convention—"Exploring the Past, Anticipating the Future"—of the International Studies Association, New York, NY, 15-18 February 2009.

"What Role for Nuclear Weapons? A Minimalist Perspective." A paper presented at the 2008 Annual Conference of the International Security and Arms Control Section of the American Political Science Association and the International Security Studies Section of the International Studies Association on "Globalization and Security: American Foreign Policy and the New Administration, Vail, CO, 23-25 October 2008. Co-sponsored by Institute on Globalization and Security, University of Denver; Denver Council on Foreign Relations; American Committees on Foreign Relations; Institute for National Security Studies, USAF Academy; the Inter-University Seminar on Armed Forces and Society.

"Estranged Liberals: An Exceptional European Experiment and American Exceptionalism." A paper presented at the 49th Annual Convention—"Bridging Multiple Divides"—of the International Studies Association, San Francisco, CA, 26-29 March 2008.

"Military Transformation and the Defense Industry," with Peter Dombrowski. A paper presented at the Conference on "The State-of-the-Art in the Global Defense Industry: Implications for the Revolution in Military Affairs (RMA)," S. Rajaratnam School of International Studies, Nanyang Technological University, Singapore, 1-2 November 2007.

"Global Governance, Security Governance, and an Imperious United States." A paper presented at the Symposium on "Security Governance Meets Great Power Gambit: Clashes and Prospects," Swedish National Defence University, 25-26 October 2007, Stockholm.

"The Political Economy of the U.S. Grand Strategy Debate Revisited," with Peter Dombrowski. A paper presented at the 2007 Annual Conference of the International Security and Arms Control Section of the American Political Science Association and the International Security Studies Section of the International Studies Association on "Global Security Challenges: When New and Old Issues Intersect," Montreal, 19-20 October 2007. Co-sponsored by the McGill University of Montreal Research Group in International Security (REGIS) and the Department of Political Science, McGill University.

"The European Union and the United States: An Exceptional Experiment Contends with American Exceptionalism." A paper presented at the Sixth Pan-European International Relations Conference—"Making Sense of a Pluralist World"—of the Standing Group on

International Relations, European Consortium for Political Research, University of Turin, Italy, 12-15 September 2007.

“From Bullets and Bombs to Bits and Bytes: U.S. Military Transformation or Business as Usual?” A paper presented at the PRIME INNO-MIL Workshop on “Re-Evaluating Defence R&D and Innovation Dynamics,” PREST (Policy Research in Engineering, Science and Technology), Manchester Business School, University of Manchester, UK, 2-3 April 2007.

"The 'New Strategic Triangle' and the U.S. Grand Strategy Debate," with Peter J. Dombrowski. A paper presented on the panel “A New Strategic Triangle: The U.S., the EU, and Russia in an Evolving Transatlantic Security Environment,” at the 47th Annual Convention of the International Studies Association, San Diego, CA, 22-25 March 2006.

“The Political Economy of U.S. Grand Strategy: Contemporary Debates” (with Peter Dombrowski). A paper presented at the 2005 Annual Conference of the International Security and Arms Control Section of the American Political Science Association and the International Security Studies Section of the International Studies Association on “Globalization and Security,” Denver, CO, 28-29 October 2005. Co-sponsored by The Graduate School of International Studies and the Institute on Globalization and Security, University of Denver; the Denver Council on Foreign Relations, and the U.S. Air Force Institute for National Security Studies.

“U.S. Military Transformation: From Bullets and Bombs to Bits and Bytes in Small Steps Rather Than Leaps Ahead (a.k.a. ‘Business as Usual’).” A paper presented at “Reevaluating the Role of Defence and Security R&D in the Innovation System,” a workshop sponsored by PREST (Policy Research in Engineering, Science and Technology) and Prime (Policies for Research and Innovation in the Move towards the European Research Area) and held at the University of Manchester, UK, 19-20 September 2005.

"U.S. Military Transformation: From Bullets and Bombs to Bits and Bytes." A paper presented at the Asia-Pacific Center for Security Studies Conference on "U.S. Defense Transformation: Implications for Security in the Asia-Pacific Region," 1-3 December 2004, Honolulu, HI.

"The 'New Strategic Triangle' and the U.S. Grand Strategy Debate," with Peter J. Dombrowski. A paper presented at conference on "The New Strategic Triangle: The U.S., EU, and Russia in an Evolving Security Environment" sponsored by the Swedish National Defence College, Stockholm, Sweden, 4-5 November 2004.

"The Contemporary U.S. Grand Strategy Debate: Bringing Economics (Back) In," with Peter J. Dombrowski. A paper prepared for conference on "Examining the Role of the United States in a Changing World" sponsored by the International Security and Arms Control Section of the American Political Science Association and the International Security Studies Section of the International Studies Association, Washington, DC, 29-30 October 2004.

"Naval Transformation: Prospects and Implications," with Peter J. Dombrowski. A paper prepared for the Annual Meeting of the American Political Science Association, Boston, MA, 29 August-1 September, 2002.

"Competing Visions for U.S. Grand Strategy: The Economic Dimension," with Peter J. Dombrowski. A paper prepared for the Annual Conference of the International Studies Association, New Orleans, 24-27 March 2002.

"Defense Industrial Globalization: Contrarian Observations." A paper prepared for The Atlantic Council conference on "Globalization of Defense Industries," Washington, DC, 16 November 2001.

"Arms Trade Restraints: A Menu of Options." A paper presented at conference on "New Frontiers in Arms Control" organized by the Project on Rethinking Arms Control, Center for International and Security Studies, School of Public Affairs, University of Maryland, College Park, and funded by the U.S. Arms Control and Disarmament Agency, 30-31 March 1995.

"Change, Continuity, and Choice," with Emily Goldman. A paper presented at the Annual Meeting of the American Political Science Association, Acapulco, Mexico, March 1993.

"Proposals for Restraining the Trade in Conventional Arms and Technologies." A paper presented at the 33rd Annual Meeting of the International Studies Association, 31 March-4 April, 1992, Atlanta, GA.

"Arms Imports and Military Import Substitution: Patterns and Trends in the Arming of the Third World." A paper presented at the 32nd Annual Meeting of International Studies Association, 19-23 March 1991, Vancouver, BC.

"Dependency and Military Import Substitution in the Developing World: State, Market, and Industrialization." A paper presented at the 30th Annual Meeting of the International Studies Association, 28 March-1 April 1989, London.

"Military Import Substitution and Military Dependence in the Third World." A paper presented at the XIVth World Congress of the International Political Science Association, 28 August-1 September 1988, Washington, D.C.

"Political-Military Relations between the States of the Northern Core and the Southern Periphery and Semiperiphery in the Modern World System: A Framework for Analysis." A paper presented at the 29th Annual Meeting of the International Studies Association, 29 March-2 April 1988, St. Louis, MO.

"The Political Economy of the International Arms Trade: A Supply Side Analysis of Market Structure and Behavior." A paper presented at the Annual Meeting of the American Political Science Association, 3-6 September 1987, Chicago, IL.

"The Political Economy of the International Arms Trade: A Supply Side, Market Analysis." A paper presented at the 28th Annual Meeting of the International Studies Association, 15-18 April 1987, Washington, D.C.

"Third World Defense Production: Antidote to Militarism?" A paper presented before the Harvard-MIT Joint Seminar on Political Development, October 1981.

"Conventional Arms Production in Developing Countries: An Overview." A paper presented at the annual meeting of the International Studies Association, March 1980, in Los Angeles.

### **Book Reviews:**

Review of Michael E. O'Hanlon, *Neither Star Wars nor Sanctuary: Constraining the Military Uses of Space*, in *Journal of Strategic Studies*, Vol. 28, No. 6 (December 2005).

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Review of Lawrence J. Korb, Project Director, *A New National Security Strategy in an Age of Terrorists, Tyrants, and Weapons of Mass Destruction: Three Options Presented as Presidential Speeches*, in *Naval War College Review*, Vol. LVII, No. 3/4 (Summer/Autumn 2004).

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Review of Mary Kaldor & Genèvieve Schméder, eds., *The European Rupture: The Defense Industry in Transition*, in *International Politics*, Vol. 36, No. 1 (March 1999).

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Review of Nicole Ball, *Security and Economy in the Third World*, in *Armed Forces & Society*, Vol. 16, No. 1 (Fall 1989).

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