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CURRICULUM VITAE

EDUCATION

B.S.F.S. Georgetown University, 1970 (Foreign Service)
M.A. University of California, Berkeley, 1971 (Political Science)
Ph.D. University of California, Berkeley, 1977 (Political Science)

EMPLOYMENT

Current Positions

2016- Interim Executive Vice Chancellor – Academic Affairs, University of California, San Diego
2012- Chancellor’s representative to Association of Pacific Research Universities, University of California, San Diego
2003- Qualcomm Endowed Chair in Communications and Technology Policy, University of California, San Diego
2002- Dean, School of Global Policy and Strategy (GPS, formerly the Graduate School of International Relations and Pacific Studies), University of California, San Diego
1989- Professor of Political Science, GPS, University of California, San Diego

Recent Positions

2009-2010 Senior Counselor to the U.S. Trade Representative, Office of the U.S. Trade Representative
2007-2010 Associate Vice Chancellor – International Affairs, University of California, San Diego
2000-2002 Chair of University of California, San Diego Committees to create Rady School of Management, design and win approval of the MBA program, recruit the founding Dean and plan the School buildings
1999-2006 Director, Institute on Global Conflict and Cooperation, University of California
1997 Chief, International Bureau, Federal Communications Commission (resigned to return to University of California, San Diego)
1994-1997 Senior Counselor for Economic and Competition Policy of the International Bureau (while on leave from University of California, San Diego) and Branch Chief for Multilateral and Development Affairs, International Bureau, Federal Communications Commission

Prior Positions

1987-1988 Associate Professor, Graduate School of International Relations and Pacific Studies, University of California, San Diego
1985-1986 Senior Consultant, International Market Planning, AT&T International
1983-1989 Associate Professor of Political Science, University of California, San Diego
1978-1983 Assistant Professor of Political Science, University of California, San Diego
1976-1977 Acting Assistant Professor of Political Science, University of California, San Diego
1975-1976 Acting Instructor of Political Science, University of California, Berkeley

Selected Boards and Memberships

2016-	Board of Directors, Cecil H. and Ida M. Green Foundation for Earth Sciences
2016-	Charter Member, Academic Advisory Council, Asia Pacific Institute for the Digital Economy (APIDE)
2016-	Member, Management Advisory Committee, Life Science Innovation Network Japan, Inc. (LINK-J)
2015-	Member, Global Competitiveness Council of San Diego
2012 -	Executive Vice Chair, Executive Board, Fudan-UC Center on Contemporary China
2008-	Member, Pacific Council on International Affairs
2005-	Member and Vice Chair (2014-), Board of Directors, Grameen Foundation
2001-	Member, Board of Directors, Institute of the Americas
1993-	Member, Council on Foreign Relations
2011-2016	Chair of U.S. experts group, U.S.-China Innovation Dialogue, a part of the Strategic and Economic Dialogue of the Governments of China and the United States
2007-2016	Vice Chair, California Council on Science and Technology
2010-2014	Chairman of the Board, CONNECT Innovation Institute
2010-2013, 2001-2006	Member, Board of Directors, San Diego World Trade Center
2010-2012	Member of the Board of Trustees and Co-chair, Strategic Planning Committee, The Bishop's School, San Diego
2008-2009	Co-Chair, President-Elect Obama's transition team for trade policy
2006-2009	Member, Board of Directors, eMobile
1994-2004	Chairman, Board of Directors, Digital Partners
2003-2003	Member, International Advisory Board, Silicon Wave
1998-2002	Member, International Advisory Board, 555-1212.com

Publications**I. BOOKS**

Digital DNA: Disruption and the Challenges for Global Governance. (with J. Aronson), Oxford University Press (expected publication date: Summer 2017).

Transforming the Global Information and Communications Market: The Political Economy of Innovation (with J. Aronson and D. Abelson) MIT Press (2009).

Structure and Policy in Japan and the United States: An Institutionalist Approach, (co-edited with Mathew McCubbins) Cambridge University Press (1995) (reprinted in 1997).

Managing the World's Economy: The Consequences of Corporate Alliances, New York: Council on Foreign Relations Press (1993) (with J. Aronson).

Changing Networks: Mexico's Telecommunications Options, (co-edited with J. Aronson and G. Szekely) (Center for U.S.-Mexico Studies, UC San Diego, 1989).

When Countries Talk: Global Telecommunication for the 1990s, a book for the International Trade project of the American Enterprise Institute (Ballinger, 1988) (with J. Aronson).

Profit and the Pursuit of Energy: Markets and Regulations, (co-edited with J. Aronson), Westview Press (1983).

The Problems of Plenty: Energy Policy and International Politics, University of California Press (1984).

II. **ARTICLES**

“Digital Trade and Regulation in an Age of Disruption” Journal of International Law & Foreign Affairs, under review (with J. Aronson)

“America’s Two Systems of Innovation: Innovation for Production in Fostering U.S. Growth,” Innovations: Technology, Governance, Globalization, Summer 2012, Vol. 7, No. 3: pp127–154 (with Dan Breznitz)

“The Information and Communication Revolution and International Relations,” in The International Studies Encyclopedia, April 2010 (with J. Aronson)

“Network Theory and Internet Governance,” in Miles Kahler (ed.), Networked Politics (Cornell University Press, 2009) (with Milton Mueller)

“Political Economy and Technological Architectures: The Political Economy of the U.S. Information and Communication Technology Infrastructure,” November 2008 Journal of Policy Research (with J. Aronson and J. Richards)

“The Peculiar Evolution of 3G Wireless Networks: Institutional Logic, Politics, and Property Rights” in William Drake and Ernst Wilson (eds.), Governing Global Electronic Networks (Social Science Research Council and MIT Press, 2009) (with J. Aronson and J. Richards)

“Negotiating Positions and Policy Reform in Developing Countries in the next Round of WTO Negotiations on Basic Telecommunications Services,” policy paper for the World Bank (2004) (with J. Aronson) (Updated version published in Aaditya Mattoo, Robert M. Stern, and Gianni Zanini (eds.), A Handbook of International Trade in Services (Oxford University Press, 2007)

“The Politics of Technological Transitions in Networked Industries,” in John Zysman and Abraham Newman, eds., How Revolutionary was the Revolution? National Responses, Market Transitions, and Global Technology in the Digital Era (Stanford University Press, 2006). (with J. Aronson and J. Richards)

“Property Rights and the Institutional Foundations of International Services Markets: Comparing Aviation and Telecommunications,” in Stephen Vogel (ed.), The State after Statism (Harvard University Press, 2006). (with J. Richards)

“The New International Trade Regime in Telecommunications Services and Network Modernization in Transition Economies,” Emerging Markets Finance and Trade, vol. 40, no. 1, January-February 2004, pp. 59-94. (with M. Klimenko)

“Cross-Border Telecommunications Services: Competition and Trade Policy in the Next WTO Round” in Damien Geradin and David Luff (eds.), Trade in Telecommunications and Audio-Visual Services in the Context of the WTO: Towards Convergence? (Cambridge University Press, 2004).

“Deregulating and Liberalizing the North American Telecommunications Market: Explaining the U.S. Approach,” in Paolo Guerrieri and Hans-Eckart Scharrer (eds.) Trade, Investment and Competition Policies in the Global Economy: The Case of the International Telecommunications Regime (Baden-Baden: Momos Verlagsgesellschaft, 2002, pp. 85-118), (with J. Richards). Also published as “Deregulating and Liberalizing the North American Telecommunications Market: Explaining the US Approach,” Hamburgisches Welt- Wirtschafts-Archiv (HWWA) Discussion Paper No. 164, (2002). (with J. Richards).

“The Next Generation Internet: Promoting Innovation and User – Experimentation,” in Robert Litan (ed), Tracking a Transformation: E-commerce and the Terms of Competition in Industries (Washington, DC: Brookings Institution

Press, 2001). (with Bar, Cohen, de Long, Kleeman, and Zysman).

"Implementing Telecommunications Liberalization in the Developing Countries after the WTO Agreement on Basic Telecommunications Services" in Robert Stern (ed), Services in the International Economy, (Ann Arbor: University of Michigan Press, 2001). (with M. Klimenko). (Reprinted in Rohan Kariyawasam (ed.), The WTO, Communications, E-Commerce and the Internet (Edward Elgar Publishing, 2008).

"The WTO Negotiations and Telecommunications Reform," monograph for the World Bank Trade Policy Support Papers, No. (2001). (with M. Klimenko).

"Telecommunications Reform in Developing Countries after the WTO Agreement on Basic Telecommunications Services," Journal of International Development, 12, (2000) pp. 265-281. (with M. Klimenko)

"Access and Innovation Policy for the Third-Generation Internet," Telecommunications Policy, 24 (July/August 2000) (with F. Bar, S. Cohen, B. de Long, M. Kleeman, and J. Zysman).

"Dialing for Dollars: The Revolution in Communications Markets," in Jeffrey Hart and Akheem Prasash (eds.), Coping with Globalization (New York: Routledge, 2000). (with J. Richards)

"FCC Benchmarks and the Reform of the International Telecommunications Market," Telecommunications Policy, January 1999.

"The Future Trade and Investment Order of the Pacific Rim: Asean, Nafta, and APEC in the Context of Japanese and U.S. Diplomacy," in P. Gourevitch, T. Inoguchi and C. Parrington (eds.), U.S.-Japan Relations and International Institutions after the Cold War (La Jolla, CA: IRPS Publications, 1995) (reprinted in Japanese edition of book: NTT Publishing Co., Tokyo, 1997).

"Ballot-box Diplomacy: The War Powers Resolution and the Use of Force," International Studies Quarterly, 41 (Winter 1997), 505-528. (with D. Auerswald).

"The Promise of a New World Information Order" in The Knowledge Economy: The Nature of Information in the Twentieth Century (1993-94 Annual Review of the Institute on Information Studies, Aspen Institute, 1993) (with Margaret McKeown). (Reprinted in Global Information Infrastructure series by the US Information Agency (January 1995)).

"Building the Global Information Highway: Toll Booths, Construction Contracts, and Rules of the Road," in William Drake (ed.), The Global Information Infrastructure (New York: A Twentieth Century Fund book, 1995).

"Introduction, Introduction to Part One, Introduction to Part Two, and Conclusion," in Peter Cowhey and Mathew McCubbins (eds.), Structure and Policy in Japan and the United States: An Institutional Approach, (Cambridge University Press, 1995). (with Mathew McCubbins)

"The Politics of U.S. and Japanese Security Commitments," in Peter Cowhey and Mathew McCubbins (eds.), Structure and Policy in Japan and the United States: An Institutional Approach (Cambridge University Press, 1995).

"Prospects for Post-Uruguay Round Trade Management," Transnational Law and Contemporary Problems 4 (1994). (with J. Aronson)

"Public and Private Cooperation on the International Informatics Regime," in Eli Noam and Seisuke Komatsuzaki (eds.), Pacific Basin Telecommunications (New York: Oxford University Press, 1994).

"A New Trade Order," (with J. Aronson) Foreign Affairs, March 1993. (republished in the Japanese edition of the journal).

"Corporate Alliances and Telecom Services," (with J. Aronson) Transnational Data and Communications Report, March/April, 1993.

"Elect Locally -- Order Globally: Multilateral Cooperation and Domestic Politics," in John Ruggie (ed.), Multilateralism Matters (New York: Columbia University Press, 1993).

"Domestic Institutions and the Credibility of International Commitments: The Cases of Japan and the United States," International Organization, April 1993. (Reprinted in Benjamin Cohen and Charles Lipson (eds.), Theory and Structure in International Political Economy, MIT Press, 1999).

"Telecommunications: Market Access Regimes in Services and Equipment," in Peter Gourevitch and Paolo Guerrieri (eds.), New Challenges to International Cooperation: Adjustment of Firms, Policies, and Organizations to Global Competition (Research Monograph Series: IR/PS, UCSD, 1993).

"The Agenda of the Leading Nations for the World Economy: A Theory of International Economic Regimes," in Gunter Heiduk and Kozo Yamamura (eds.), Technological Competition and Interdependence (Seattle: University of Washington Press, 1991) pp 107-150.

"Future Paths for International Telecommunications Regulation," in Harvey Sapolsky, Eli Noam, and Russ Neuman (eds.) The Telecommunications Revolution (Routledge Kegan, 1991).

"The ITU in Transition," Telecommunications Policy, August, 1991, pp. 298-310.

"The International Telecommunications Regime: The Political Roots of High Technology Regimes," International Organization, Spring, 1990. Reprinted in Fritz Kratochwill and Edwin Mansfield (eds.), International Organization: A Reader (New York: Harper Collins, 1993).

"Telecommunications," in Gary Hufbauer (ed.), Europe 1992: An American Perspective, (Washington D.C.: Brookings Institution Press, 1990).

"States and Politics" in American Foreign Economic Policy," in John Odell and Thomas Willett (eds.), Blending Economic and Political Theories (Ann Arbor: University of Michigan Press, 1990).

"Telecommunications and Foreign Economic Policy," in Paula Newberg (ed.), New Directions in Telecommunications Policy: Vol. 2, Information Policy and Economic Policy (Duke University Press, 1989).

"The Globalization of Telephone Pricing and Services," Chapter Two in James Alleman and Richard Emmerson (eds.), Perspectives on the Telephone Industry: The Challenges for the Future (Cambridge: Ballinger, 1989).

"Trade in Services and Changes in the World Telecommunications System," and "Global Diplomacy and National Policy Options for Telecommunications," (with J. Aronson), in J.D. Aronson, P.F. Cowhey, and G. Szekely (eds.), Changing Networks (Center for U.S.-Mexico Studies, 1989).

"Bilateral Telecommunications Negotiations," in Albert Bressand and Kalypso Nikolaidis (eds.), Strategic Trends in Services (Cambridge: Ballinger, 1989) (with J. Aronson). Also published in the Overseas Telecommunications Journal of the Research Institute of Telecom Policies and Economics (Tokyo), 1988, No. 2, pp. 32-46. (in Japanese)

"International Trade and Telecommunications," in Maurice Estabrook and R. Marche (eds.) Telecommunications: A Strategic Perspective on Regional Economic and Business Development, (Canadian Institute for Research on Regional Development, 1987).

"Trade Talks and the Informatics Sector," International Journal, Winter, 1986/1987, pp. 107-137.

Trade in Services: A Case for Open Markets, (monograph). Published by the Project on Competing in a Changing World Economy, American Enterprise Institute, 1985. (with J. Aronson).

"Trade in Services and Latin America," Published as part of a volume on international trade by Sistema Económico Latino Americano, Caracas, Venezuela, 1985. (with J. Aronson).

"Canada-U.S. Trade in Communication Services: The Prospects for Liberalization." Published in The Management of Transborder Data Flows: U.S.-Canada and Beyond. The proceedings of a Conference. Sponsored by the Canadian Studies Program of Columbia University, (with J. Aronson).

"Trade in Communications and Data Processing" in Robert Stern (ed.), U.S.-Canada Trade in the Service Industries (University of Toronto Press, 1985).

"The Great Satellite Shootout," (with Jonathan Aronson) Regulation, May/June 1985, pp. 27-36.

"Can Telecommunications Networks Save The European Computer and Microelectronics Industries?" (with Jonathan Aronson) in Der Kampf un den Wohlstand von morgen, ed. by Alfred Pfaller, (1985).

"Telecom: Le Service Public En Question" (with Jonathan Aronson) in 30 jours d'Europe, September/October 1985.

"The Politics of U.S. Trade Policy and the Fate of High Technology Industries," Issues in Science and Technology, Spring 1985.

"Testing Theories of Regime Change: Hegemonic Decline or Surplus Capacity?" (with Edward Long), International Organization, Spring 1983. (Reprinted in Joseph Grieco (ed.), Theories of Hegemony)

"The Future of the International Oil Companies and the Probable Evolution of the World Energy System in the Eighties" in Miguel Wionczek (ed), The Future of the World Hydrocarbons Market (Pergamon Press, 1982).

"Las Companias Petroleras Internacionales y El Futuro del Sistema Mundial de Energia", Cuadernos Sobre Prospectiva Energetica, June, 1981. Monograph published by El Colegio de Mexico (Mexico City).

"Bearing the Burden: Presidential Responsibility for Foreign Policy" (with David Laitin), International Studies Quarterly, 1978.

"The Theory of Collective Goods Reexamined" (with Jeffrey Hart), Western Political Quarterly, Fall, 1977.

HONORS, AWARDS, AND SPECIAL ACHIEVEMENTS

I. SELECTED AWARDS AND ACHIEVEMENTS

- Chairman's Special Achievement Award, Federal Communications Commission, for distinguished service, 1996. (This is the highest award for non-career employees of the FCC.)
- Council on Foreign Relations International Affairs Fellowship, 1984 (for 1985-1986)
- Rockefeller Foundation International Affairs Fellowship, 1983 (for 1984-1986)
- Odegard Prize, Department of Political Science, 1974
- Ph.D. Examinations passed with Distinction, 1973
- NSF Traineeship, 1970-1973 (declined 1972-1973)
- Edmond A. Walsh Award, Georgetown University, 1970

II. RESEARCH ON INNOVATION AND THE TELECOMMUNICATIONS, INFORMATION, AND SERVICES INDUSTRIES

- Member, Task force on the Internet Economy, Keio University and the Association of Pacific Research Universities, 2015—
- Visiting Professor, Sciences Po, Paris, 2014
- Co-investigator, Project on Comparative Trends in Innovation in Korea and United States, Korea-US Business Council Report to CEOs, 2014
- Lead Investigator, “Unlocking the Benefits of Cloud Computing for Emerging Economies – A Policy Overview” (Verizon Grant), 2013
- Co-Principal Investigator, “Innovation Systems and Public Policy,” Connect Institute, Grant from the Waitt Foundation, 2010-2011
- Chief Policy Officer, the Aspen Institute Project on the International Digital Economy Agreement, 2010-2011
- Research Fellow, Annenberg Center, University of Southern California, 2006-2007
- Member, Technology Center Advisory Board, Grameen Foundation, 2005- (Board of directors subsequently)
- Co-Director, “Spectrum Policy Workshops” (a joint project of UCSD and ENST, France), 2002-2006
- Layer Leader, Public Policy and Markets Research, California Institute on Telecommunications and Information Technology, 2002-2005
- Advisory Board, UNDP-Markle Foundation Project on Communications and Information Technology, 2001-2002
- Advisory Board, USAID E-government, 2001-2006
- Co-Director, International Workshops on Communications Regulations, 2000-2002
- Principal Investigator, Markle Foundation, “Regulatory Reform and Developing Countries,” 2000-2002
- Co-organizer, California E-economy Project (co-sponsored by Berkeley Roundtable on the International Economy and IGCC), 1999-2004
- Co-Organizer, International Settlement Rates Conference, Annenberg School of Communications, Winter 1998
- Co-Director, Council on Foreign Relations study group, “Global Communication and Information Policy,” 1996
- “Special Act” Awards from the Chief of the International Bureau. 1995 (Foreign Carrier Order), 1996 (Accounting Rate Policy Statement, AT&T International Nondominance Order), and 1997 (International Settlement Rate benchmark NPRM and World Trade Organization negotiation)
- Co-Director, Project on Comparative Telecommunications Reform in Perspective, Department of Education grant, 1992-1993
- Investigator, “Europe 1992 project,” Brookings Institution, 1988-1990
- Co-Director, Project on U.S.-Mexico Telecommunications Relations, Center on U.S.-Mexico Studies, UC San Diego, 1987-1989
- Visiting Scholar, Berkeley Roundtable on the International Economy, University of California, Berkeley, 1984-1985
- Visiting Scholar, Communications Program, M.I.T., 1984-1985
- Co-Principal Investigator, “International Services and Telecommunications Policy” American Enterprise Institute, 1983-1987
- Research grants, UC San Diego Faculty Senate, “International and Domestic Telecommunications Policy,” 1981-1982

III. RESEARCH ON INTERNATIONAL RELATIONS, BIOSECURITY AND FOREIGN TRADE AND INVESTMENT

- Member and Lead Project Analyst, San Diego Economic Development Corporation Task Force on San Diego Metropolitan Region Strategy for International Trade, a Global Cities Initiative project with the Brookings Institution, 2013-14
- Member, Joint Task Force on The Global Innovation Economy: Enhancing Cooperation in India-U.S. Relations, Pacific Council on International Policy and the Federation of Indian Chambers of Commerce and Industry, 2007-2009
- Member, Steering Committee, The American Assembly's project on the "Next Generation of Foreign Policy Leadership," 2005-2007
- Co-Principal Investigator, National Security Fellows Training Program, U.S. Department of State, 2005
- Co-Principal Investigator, Public Policy and Biological Threats, 2004-2007, Project of the Institute on Global Conflict and Cooperation, funded by the Carnegie Corporation
- Co-Principal Investigator, "Middle East Security Dialogue," 2001-2008, U.S. Department of Energy
- Member, Council on Foreign Relations Study Group on International Trade Policy, 1999-2001
- Member, Northeast Asian Cooperation Dialogue, 1999-2001
- Senior Fellow, Institute for International Economics, 1997 (offer declined)
- Member, China-Japan-U.S. Trilateral Forum, 1996-2000
- Visiting Scholar, Institute of Oriental Culture, University of Tokyo, Winter 1993
- Research Scholar, Berkeley Roundtable on the International Economy, 1992-1994
- Co-Director, Conference on Comparing Public Policy and Politics in the U.S. and Japan, February 1992
- Visiting Scholar, Instituto Juan March (Madrid, Spain), Spring 1992
- Co-Principal Investigator, "The Politics of Economic Integration in the Americas," 1991-1992 (Grant from Institute on Global Conflict and Cooperation)
- Co-Principal Investigator, "Comparative Foreign Policies and the Commitment to Multilateralism," 1991-1992 (Grant from Institute on Global Conflict and Cooperation)
- Director, Project on International and Security Affairs, University of California, San Diego, 1990-1994
- Co-Principal Investigator, "Political Institutions and Policy-Making in Pacific Rim Nations" U. C. Pacific Rim Research Program, 1989-1991
- Co-Principal Investigator, "UCSD Colloquium on International Institutions," 1988-1990 (Ford Foundation grant)
- Co-Principal Investigator, "Study of Hegemonic Change in the Pacific Rim," University of California Pacific Rim Research Program, 1987-1988
- Co-Director, Working Group of the Council on Foreign Relations, "International Corporate Alliances and the Future of International Cooperation and Competition," 1985-1986

IV. ENERGY RESEARCH

- Co-Principal Investigator, "An Analysis of the Merits of International Oil Agreements", Columbia University Institute for Law and Economics, 1980-1981
- Principal Investigator, "International Geothermal Energy Project," U.S. Department of Energy, 1979-1980
- Visiting Scholar, Institute of War and Peace Studies, Columbia University, 1978-1979
- Research Grant, International Foundation for Development Alternatives, Nyon Switzerland, 1978-1979
- Faculty Senate Research Grants, 1978 (for European interviewing on energy policy)
- NSF Post-Doctoral Fellowship for Energy Studies, 1975

V. TEACHING FIELDS

- International Political Economy (Trade, Innovation, and Investment Policy)
- Regulation and Public Policy (Telecommunications and Information Policy, Theory of Regulation, Cybersecurity, Biosecurity, Comparative Public Policy)
- International Corporate Strategy
- Comparative Foreign Policy

POPULAR PRESS ARTICLES AND SELECTED WORKING PAPERS

“Trump’s Trade Moves Impact San Diego Economy” San Diego Union-Tribune, January 27, 2017

“The Trans-Pacific Partnership: Trade’s Prosperous Potential for San Diego” White Paper for San Diego Economic Development Corporation and World Trade Center, March 2016 (with T. Baranga)

“The Information and Production Disruption: Implications for Innovation Policy,” U.S.-Korean Business Council White Paper, 2015 (with S. Haggard)

“Right Target, Wrong Weapon,” Financial Times, September 12, 2000, p. 17 (with J. Aronson)

“Northeast Asia and ‘stealth détente’,” San Diego Union-Tribune, January 28, 2000, p. B-11.

“Do Mergers Threaten Nations?” Los Angeles Times, June 28, 1998, p. M1 (with Jonathan Aronson)

“America, The Global Telecom Laggard,” Wall Street Journal, March 6, 1998, p. A14 (with Scott Blake Harris)

“The FCC and the Reform of the International Telecommunications Services Market” Euromoney (Winter 1998) (with Laura Sherman)

“The Clinton Technology Policy: Boon or Boondoggle?” USA Today Magazine, January 1994

“Clinton Will Need Fast-Tech Results,” New York Times, January 3, 1993, (with D. Brass)