

## CURRICULUM VITAE

**Name** Urs LUTERBACHER

**Date of Birth** November 5, 1944

**Address** Graduate Institute of International Studies  
Center for Empirical Research in International  
Relations.  
11 A, Avenue de la Paix, 1202 Geneva / Switzerland

**Education** Maturité classique, Gymnase of Bienne, 1963

Licence ès sciences politiques (études internationales), University of Geneva, 1967

Doctorat ès sciences politiques, Graduate Institute of International Studies, 1974

**Positions** Visiting Fellow, Mental Health Research Institute, University of Michigan (Fellowship Carnegie Endowment for International Peace, Fellowship Center for Research on Conflict Resolution, University of Michigan), 1968-1970

Research Assistant, Graduate Institute of International Studies, 1970-1971

Visiting Scientist, Mental Health Research Institute, University of Michigan, 1972 (with fellowship from the Swiss National Science Foundation)

Research Associate, Graduate Institute of International Studies, 1972-1973

Assistant Professor, Graduate Institute of International Studies, 1973-1977

Chargé de cours, Department of Political Science, University of Geneva, since 1974

Professor, Graduate Institute of International Studies, since 1977.

Visiting Professor, International Relations Program, The University of Nebraska, 1984.

Visiting Professor, Department of Atmospheric, Oceanic and Space Sciences, and Institute for Social Research, The University of Michigan 1990-1991

## Publications

### a. Peer Reviewed

"Population Density and the War Proneness of European Nations, 1816-1965", with Stuart Bremer and J. David Singer, **Comparative Political Studies**, 1973, 6, 3: 329-347.

"Continuité et indétermination dans l'évolution des conflits internationaux". **Annuaire suisse de science politique**, 1973: 147-162.

"Bipolarity and Generational Factors in Major Power Military Activity 1900-1965". **Journal of Peace Research**, 1975, 13: 129-138.

"Arms Race Models: Where do we Stand?". **European Journal of Political Research**, 1975, 3: 199-217.

"L'analyse des relations internationales en Suisse". **Annuaire suisse de science politique**, 1975: 9-15.

"Towards a Convergence of Behavioral and Strategic Conceptions of the Arms Race: The Case of the American and Soviet ICBM Buildup". **Peace Science Society, Papers**, 1976: 1-21.

"Empirische Studien als Grundlagen der Schweizerischen Sicherheitspolitik", avec Albert Stahel, **Annuaire suisse de science politique**, 1977: 213-233.

"Dynamics of Arms Races: Mutual Stimulation vs. Self-Stimulation". With Jean-Christian Lambélet, **Journal of Peace Science**, 1979, 4, 1: 49-66.

"Modeling Politico-Economic Interactions within and between Nations" with Pierre Allan. **International Political Science Review**, 1982, 3, 4: 404-433.

"Last Words about War?" **Journal of Conflict Resolution**, 1984, 28, 1: 165-182.

"Peasant Families and the New Home Economics: A critical Assessment Based on Swiss Data." with Ellen Wiegandt. **The Tocqueville Review**. 1984 6, 1: 97-121.

"The Frustrated Commentator: An Evaluation of the Work of Raymond Aron." **International Studies Quarterly**. 1985, 29: 39-49.

"Simulating the Response of a Small Open Politico-Economic System to International Crises: The Case of Switzerland." with T. Michael Clarke, Pierre Allan et Nicolas Kessler, **Management Science**, January 1987: 270-287,

"Fewer Guns and Cheaper Butter" with Pierre Allan . **International Political Science Review** (1992), Vol. 13, No 2: 123-148.

"La Suisse, un modèle politico-économique et l'Europe".with Pierre Allan and Cédric Dupont **Annuaire suisse de science politique**, 1992: 323-345.

"Rational choice analysis as tools for solving international environmental policy questions, in **International Environmental Studies Notes**, Vol. 19, No 3, Fall **1994**: 34-37.

"International Cooperation: The Problem of the Commons and the special case of the Antarctic Region", **Synthese**, **1994**: 413-440

"Social Dimensions of Resource Use: The Freshwater Case" with Ellen Wiegandt **Swiss Political Science Review**. 1, 4, **1995**: 131-142.

Editor of volume **New Developments in International Institutions and Organizations**, **International Political Science Review** **20**, **4**, **1999**

"New Developments in International Institutions and Organizations: Introduction" **International Political Science Review** **20**, **4**, **1999**: **339-340**

"The New Political Economy of Trading and its Institutional Consequences" **International Political Science Review** **20**, **4** **1999**: **341-358**. with Carla Norrlof

"Conflict and Irrevocable Decisions" in **Peace Economics, Peace Science, Public Policy Journal** **2005**.

"Le changement climatique, le protocole de Kyoto et les relations Transatlantiques" with Imène Ajala **Politique étrangère** **2009**:**103-116**

## **b. Books**

**Dimensions historiques de modèles dynamiques de conflit**. Leiden: Sijthoff, **1974**

**Dynamic Models of International Conflict**. (ed.) With Michael D. Ward. Boulder, CO: Lynne Rienner Publishers, **1985**.

**Cooperative Models in International Relations Research**, (ed.) with Michael D. Intriligator : Kluwer, **1994**.

**International Relations and Global Climate Change**. With Detlef Sprinz, , Cambridge, MA: MIT Press, **2001**

## **c. Other Papers and Book Contributions**

**Time, Interactions, and Periodicities in Arms Races, Conflict and War**. An Analysis based upon some Dynamic Mathematical Models. **Proceedings**, IPSA World Congress Montreal, **1973**.

"Die Analyse des ICBM-Rüstungswettlaufes zwischen den USA und der USSR". **SAMS-Informationen**, Bulletin du Groupe d'étude suisse Armée et Sciences sociales, 1977: 11-26.

"Un nouveau modèle de course aux armements" in Philippe Braillard (ed.), **Théories des relations internationales**, Paris: Presses universitaires de France, 1977: 276-297.

"Review of International Systems: A Behavioral Approach." **American**

**Political Science Review**, 1977, 71, 2: 831-832.

"Breaking Points in the International System: Criteria for Formal Models". in Mircea Malitza (ed.), **Mathematical Approaches to International Relations**, Bucharest: Romanian Academy of Sciences, **1978**: 203-213.

"Quels sont les éléments moteurs des courses aux armements?" **Revue technique suisse** **1978**, 47,48: 1456-1459.

**SIMPEST: A Simulation Model of Political, Economic, and Strategic Interactions Among Major Powers**. avec la collaboration de Pierre Allan et André Imhoff. **Proceedings**, International Political Science Association World Congress, Moscou, 1979.

"Global Modeling, The Difficult Art of Trying to Grasp World Problems: A Review and Suggestions for further Research". in Manfred Timmermann (ed.), **Nationalökonomie morgen**, Stuttgart, Berlin, Köln, Mainz: Kohlhammer, 1981: 207-224.

"Détente Processes in Europe: A Tentative Model" with Pierre Allan. in Daniel Frei (ed.), **Definitions and Measurement of Détente. East and West Perspectives**, Cambridge, Mass.: Oelgeschlager, Gunn und Hain, **1981**.

"Négociations et Coalitions: Esquisse de modèles formels à l'exemple des relations triangulaires entre les Etats- Unis, l'URSS et la Chine". in **Mélanges en l'honneur de Jacques Freymond**, Genève: Publications de l'Institut universitaire de hautes études internationales, **1981**: 139-152.

"Simulationen der Auswirkungen von internationalen politisch-ökonomischen Einflüssen auf die Schweiz" with T. Michael Clarke. in Paul Stähli (ed.), **Wirtschaftliche Landesvorsorge im Rahmen der Sicherheitspolitik**, Bern: Haupt, **1983**: 183-200.

"Quel futur énergétique pour la Suisse? Analyse de quelques scénarios". **Analyses et Prévisions**, Lausanne, Genève: CREA-CRERI, Décembre **1983**, pp. 91-110.

"The Future of East-West Relations: A Computer Simulation of Five Scenarios". avec Pierre Allan in Daniel Frei and Dieter Ruloff (eds.), **East-West Relations**, Vol. II, Cambridge, MA: Oelgeschlager, Gunn und Hain, **1983**: 285-318.

"Modelling East-West Strategic Relations in the 1980s" with Pierre Allan. in I. Dobozi and H. Matejka (eds.), **East-West Relations in the Mid-Eighties**, Budapest: Trends in World Economy, No 47, **1984**.

"International Public Policy Analysis: Energy Crises and the Small State" avec T. Michael Clarke et Pierre Allan in Michael D. Ward, (ed.) **Theories, Models and Simulations in International Relations, Essays in Honor of Harold Guetzkow**. Boulder, CO and London: Westview, **1985**: 79-100.

"Toward a Dynamic Theory of Conflict and Coalition Formation." With Pierre Allan in Urs Luterbacher et Michael D. Ward (eds.) **Dynamic Models of International Conflict**. Boulder, CO: Lynne Rienner Publishers, **1985**: 229-250.

"Le contrat social: Une idée naïve?" in Pierre Bühler (ed.) **Jeux et contre-jeux**. Mélanges en l'honneur de Pierre-André Stucki. Neuchâtel: University of Neuchâtel, **1986**: 100-115.

"Conflict, Arms Races, and War: A Synthetic Approach." with Jean-Christian Lambet, in Christian Schmidt and Franck Blackaby, (eds.) **Peace, Defense and Economic Analysis**. London: The Free Press, **1987**: 85-103.

"Which Origins for the Family, Private Property, and the State?" (with Ellen Wiegandt). In Manfred Timmermann (ed.), **Die Ökonomischen Lehren von Marx, Keynes und Schumpeter**, Stuttgart, Berlin, Köln, Mainz, Kohlhammer, **1987**: 51-79.

"The Issues of Non-Militarization and Scientific Cooperation." in L. Caflisch and F. Tanner (eds.), *The Polar Regions and their Strategic Significance*, **PSIS Special Studies**, No 2, **1989**: 65-83.

**Pathways of Understanding : The Interactions of Humanity and Global Environmental Change**. With William Kuhn and Ellen Wiegandt. University Center, MI: The Consortium for International Earth Science Information Network (CIESIN)**1992**.

**Strategische und politisch-ökonomische Zusammenhänge : Computersimulationsmodelle der Grossmächte und der Schweiz** with Pierre Allan, in Albert A. Stahel (ed.) *Simulationen strategischer problem*, **Verlag der Fachvereine Zürich**, **1992**: 87-128.

"A Theory of Cooperation in the Triad" in **Cooperative Models in International Relations Research**, (ed.) with Michael D. Intriligator: Kluwer, **1994**.

"Some game-theoretical considerations on negotiations about migrations" in **Game Theory and International Relations** Edited by Pierre Allan and Christian Schmidt, Aldershot UK - Edward Elgar, **1994**: 191-205.

Rationalities East and West: Are there Fundamental Oppositions? State of the Discipline Session on Conflict and Cooperation. Proceedings: IPSA XVIIth World Congress, Seoul, Korea 17-21 August **1997**

Elections et mode de scrutin en Suisse: Considérations critiques et propositions de modification in Silvio Borner and Hans Rentsch **Wieviel direkte Demokratie verträgt die Schweiz?** Zürich: Rüeggler **1997**: 221-241.

Ecosystem Modeling and the Social Sciences (with Ellen Wiegandt), in John Schellnhuber, W. Wenzel (eds.), **Earth System Analysis: Integrating Science for Sustainability**, Springer Verlag,**1998**: 246-250.

**Water Resource Conflicts : The Use of Formal Approaches** Urs Luterbacher, Ellen Wiegandt and John Schellnhuber in Martin Beniston edit. **Climatic Change: Implications for the Hydrological Cycle and for Water Management** Dordrecht: Kluwer **2002**

“Migration Patterns, Land Use and Climate Change” in Unruh, Jon D. Maarten S. Krol and Nurit Kliot **Environmental Change and its Implications for Population Migration** Dordrecht: Kluwer **2004**: 165-175.

“Cooperation or Confrontation: Sustainable Water Use in an International Context” with Ellen Wiegandt in Brown Weiss Edith, Laurence Boisson de Chazournes & Nathalie Bernasconi-Osterwalder, eds., **Fresh Water and International Economic Law**, Oxford: Oxford University Press, **2005**

“Environment, climate change and the Kyoto Protocol” in Missiroli Antonio ed. **A D Drive for the EU: Disasters, Diseases, Disruptions** Chaillot Paper of the Institute for Security Studies of the European Union Paris: **2005**

“Global Change, The Environment and Conflict” in Nayef R.F. Al-Rhodhan edit. **The Geopolitical and Geosecurity Implications of Globalization**, Genève, Slatkine: 105-142. **2006**

Changement Climatique: La France doit jouer collectif in **Les 20 Chantiers de l’Elysée: Propositions pour 2007** Paris: Hachette 2007: 109-118

“Water and Mountains, Upstream and Downstream: Analyzing Unequal Relations” with Duishen Mamatkanov in Wiegandt, Ellen (Ed.), (2007) **Mountains: Sources of Water, Sources of Knowledge**, Series: Advances in Global Change Research , Martin Beniston, series editor, Vol. 31, Dordrecht: Springer, 2007: 283-303.

“Glacier and Efficient Water Use in Central Asia” **with** Valerii Kuzmichenok, Gulnara Shalpykova, and Ellen Wiegandt in Orlove, Benjamin, Ellen Wiegandt and Brian Luckman edit. **Darkening Peaks : Glacier Retreat, Science and Society**, Berkeley CA: University of California Press, 2007: 251-259.

“Securing the Environment and Securing States” in Chatterji, Manas and Jacques Fontanel, edit. **Contributions to Conflict Management, Peace Economics, and Development, Volume 6, War, Peace**, London, Macmillan Emerald Group Publishing Limited, 2008

**Papers Under Review:** **Deterrence, Critical Risk, and Escalation: A Game-Theoretic Synthesis.** Urs Luterbacher and Ray Dacey

**Production, Protection and International Relations** with Carla Norrlof

**The Double Tragedy of the Commons: An Inquiry into Natural Resources and Warlordism** with Dominic Rohner

**Computer Related Competence**

Knowledge of advanced dynamic simulation software.

Co-developer of the dynamic data oriented simulation language SPARE.

Proficiency in Fortran, Unix and Linux systems with related spreadsheet software and GIS systems (eg. Xess, GRASS).

Extensive knowledge of Windows oriented spreadsheet, graphics, simulations and GIS systems (Excel, Scientific workspace, Matlab. Mapinfo, etc.).

Internet and HTML proficiency.

**Professional Activities**

Member, Advisory Board, Journal of Conflict Resolution.

Member Swiss Delegation to the Conference of the Parties on the Framework Convention on Climate Change, Buenos Aires, November 1998.

**Involvement in research projects:**

Climate Change, Mountain Hydrology and Institutional Constraints:

ACQWA Assessing Climatic change and impacts on the Quantity and quality of Water- *assessing the future of water resources in vulnerable mountain regions*

Co-coordinator, Work Package 2. Specific project leader within Work Packages 2 and 4.

Funding European Commission via Framework 7 Research Programme.