

HS 15342

Hans Günter Brauch

**Towards a Fourth Sustainability Revolution
Security Policy and Sustainable Peace in the Anthropocene**

Assignment of the Hauptseminar to the following „Studiengänge“:

Politik- und Sozialwissenschaften > Politikwissenschaft >

- Bachelor Politikwissenschaft
- Studienbereich Aufbau/Master Politikwissenschaft
- Diplom Politikwissenschaft (Hauptstudium)
 - o Kern-/Vertiefungsmodul Internationale Beziehungen
 - o 3.1 Theorie, Empirie und Geschichte der Internationalen Beziehungen
- 6. Studienbereich Allgemeine Berufsvorbereitung (ABV) >
- IX. Masterstudiengang Internationale Beziehungen > Aufbauphase > Vertiefungsmodul

(15342)	Towards a Fourth Sustainability Revolution	(18.10.)	Hans Günter Brauch
-HS-	Di 18.10., 14.00-16.00 (Einzeltermin)		
	- Ihnestr. 22, 22/UG5 (Seminarraum)		
	Freitag, 18.11., 18.30-20.00, Room Ihnestr.21/F		Hans Günter Brauch
	Samstag, 19.11., 8.15-17.30, Room L 202		Hans Günter Brauch
	Freitag, 25.11., 14.00-19.45, Room Ihnestr.21/F		Hans Günter Brauch
	Samstag, 26.11., 8.15-17.30, Room L 202		Hans Günter Brauch

This graduate seminar will only be offered in English

In October 2011 a plan of seminar sessions, list of seminar papers, bibliography and a participants' questionnaire will be posted at: <http://www.afes-press.de/html/fu_berlin.html>. Consultation hours are prior and after seminar sessions and by Email at: <brauch@onlinehome.de>. **Seminar topics will only be distributed to the participants after the first session after an electronic confirmation and submission of three alternative seminar topics not any later than Wednesday, 26 October 2011.**

Seminar Description

25 years after the publication of the Brundtland Report (1987) and 20 years after the first UN Conference on Environment and Development (UNCED) in Rio de Janeiro and 15 years after the adoption of the Kyoto Protocol the governments are scheduled to assess the achievements since 1992 and to pass decisions for the next 2 decades (Rio+20) including a re assessment of the policy goals and institutions. However, the international community is confronted with a major implementation and credibility gap. While the G-8 (Canada, France, Germany, Italy, Japan, Russia, UK, USA) have announced since 2007 that they aim at a global reduction of greenhouse gases by 50% and for themselves by 80% until 2050 compared with 1990, however, many of them have failed to implement their commitments under the UNFCCC (1992) and the Kyoto Protocol (1997) and it is uncertain whether until December 2012 a legally binding post-Kyoto agreement will be adopted. Humankind is confronted with a paradox to continue strategies of business as usual determined by political short-termism and prevailing economic interests or to move towards another fundamentally different sustainability paradigm. In 2003, leading natural scientists called at a Dahlem conference for a new "Copernican Revolution" (Clark/Crutzen/

Schellnhuber 2004), while social scientists suggested to move towards a “fourth sustainability revolution” (Oswald Spring/Brauch 2011) that would require a fundamental change in the worldview of scientists, of the mindsets of policymakers, in the way of life and consumption patterns of people as well as in the production processes that would require a gradual decarbonization of economic production processes. **Seminar presentations and written seminar papers:** The seminar presentations will offer an overview of an emerging scientific and policy debate on the need to move from *business-as usual strategies* towards a transition towards *strategies for transition towards sustainability* and offer scientific tools for assessing the global policy process on Rio+20 that will start in November in the UN context and result in the decisions to be adopted at the Earth summit in Rio de Janeiro in June 2012. **Two types of seminar papers are possible:** a) development of the topic of the oral presentation into a seminar paper of ca. 5000 words; b) application of the tools and new knowledge to an analysis of the Rio+20 process. These topics can be arranged with me according to your specific interests but they must be approved by me. **Submission dates: 30 April 2012 (first deadline) and 30 August 2012 (second deadline).**

Overview of Seminar Sessions

Friday, 18.11., 18.30-20.00, Room Ihnestr.21/F

18.11., 18.30-20.00: The Great Global Transition: Towards a Fourth Sustainability Revolution

2. 18.11., 18.30-20.00: Brauch lecture: From Holocene to Anthropocene: Change in earth history and political geology for the Anthropocene: Relevance for international relations (IR)

Saturday, 19.11., 8.15-17.30, Room L 202

19.11., 8.15-17.15: Global Environmental Change and Sustainability Revolution

3. 19.11., 8.15-9.45: Kuhn’s structure of scientific revolutions: the theoretical argument
4. 19.11., 10.00-11.30: First three revolutions: agricultural, industrial, and communication (IT) revolutions
5. 19.11., 12.15-13.45: Global environmental change: Impacts on political revolutions of 1789, 1848, 1911, 1917 and 2011 (Jasmin revolution): Deficits of theories of revolution in political science
6. 19.11., 14.00-15.30: The climate policy paradox: Promises without commitment: G8’s credibility gap
7. 19.11., 15.45-17.30: The call of natural scientists for a new ‘Copernican Revolution’ of the knowledge

Friday, 25.11., 14.00-19.45, Room Ihnestr.21/F

25.11., 14.00-20.00: Elements of a Fourth Sustainability Revolution: Changing worldviews and mindsets

8. 25.11., 14.00-15.00: Perspective of the WBGU: A new social contract for a new global transformation
9. 25.11., 15.00-16.30: Elements of a ‘Fourth Sustainability Revolution’
10. 25.11., 16.30-18.00: Changing worldviews of scientific disciplines, of political science and IR
11. 25.11., 18.15-19.45: Changing the mindsets of policy makers

Samstag, 26.11., 8.15-17.30, Room L 202

26.11., 8.15-17.15: Implementing the Fourth Sustainability Revolution until 2050

12. 26.11., 8.15-9.45: Implementing the ‘fourth sustainability revolution’ until 2050
13. 26.11., 10.00-11.30: The goal of a sustainable transformation of the world economy: UNEP & OECD vision
14. 26.11., 12.15-13.45: Changing energy policies: Decarbonization of the global economy
15. 26.11., 14.00-15.30: Sustainable development with a sustainable peace
16. 26.11., 15.45-17.30: Implementing the goal of a sustainable peace: Action goals for the EU and the UN

Literature:

Obligatory Reading:

- WBGU: *Welt im Wandel: Gesellschaftsvertrag für eine Große Transformation* (Berlin 2011), please download free of charge (at present only in German) at: <<http://www.wbgu.de/veroeffentlichungen/hauptgutachten/hauptgutachten-2011-transformation/>> (free English text is available in autumn of 2011) at: <<http://www.wbgu.de/en/publications/flagship-reports/flagship-report-2011/>>. **Good bibliography!**
- Ursula Oswald Spring; Hans Günter Brauch: “Coping with Global Environmental Change – Sustainability Revolution and Sustainable Peace”, in: Brauch; Oswald Spring; Mesjasz; Grin; Kameri-Mbote; Chourou; Dunay; Birkmann (Eds.): *Coping with Global Environmental Change, Disasters and Security*, 2010: 1487-1503. A copy will be sent to all registered seminar participants by me on 29 October 2011.

- Please subscribe to this free list of the International Institute for Sustainable Development (IISD): ***Sustainable Development Policy & Practice*** - A Knowledgebase of International Activities Preparing for the UN Conference on Sustainable Development (UNCSD, or Rio +20) <<http://uncsd.iisd.org/>> that will send you daily several Emails on the global debate in the Preparation of Rio+20 that will take place at a summit in June 2012 that will set the goals and the agenda for the next 20 years until 2032.

Additional Readings:

- Beck, Ulrich: "Living in and Coping with World Risk Society", in: Brauch/Oswald Spring/Mesjasz/Grin/Kameri-Mbote/Chourou/Birkmann (Eds.): *Coping with Global Environmental Change, Disasters and Security – Threats, Challenges, Vulnerabilities and Risks*, 2011: 11-15;
- Beck, Ulrich: *World at Risk*, 2009.
- Beck, Ulrich: *Weltrisikogesellschaft*, 2007.
- Brauch/Grin/Mesjasz/Dunay/Chadha Behera/ Chourou/Oswald Spring/Kameri-Mbote/Liotta (Eds.): *Globalization and Environmental Challenges: Reconceptualising Security in the 21st Century*. 2008.
<<http://www.springerlink.com/content/978-3-540-75976-8#section=932765&page=1&locus=0>>.
- Brauch/Oswald Spring/Grin/Mesjasz/Kameri-Mbote/Behera/Chourou/ Krummenacher (Eds.): *Facing Global Environmental Change: Environmental, Human, Energy, Food, Health and Water Security Concepts*, 2009. See the free bibliography at:
<
<http://www.springerlink.com/content/p13v23/?p=34ffca58db44fb5bdc21b5f6b813abb&pi=0#section=725083&page=1&locus=0>>.
- Brauch/Dalby/Oswald Spring: „Political Geocology for the Anthropocene“, in: Brauch/Oswald Spring/Mesjasz/Grin/Kameri-Mbote/Chourou/Dunay/Birkmann (Eds.): *Coping with Global Environmental Change, Disasters and Security*, 2010: 1453-1486. See the free bibliography at:
< <http://www.springerlink.com/content/978-3-642-17775-0#section=852883&page=1&locus=0> >.
- Clark, W.C. /P.J. Crutzen/H.J. Schellnhuber: "Science and Global Sustainability: Toward a New Paradigm", in: Schellnhuber/Crutzen/Clark/Claussen/Held (Eds.): *Earth System Analysis for Sustainability*, 2004: 1-28.
- Grin, John; Rotmans, Jan; Schot, Johan (Eds.): *Transitions toward sustainable development. New directions in the study of long-term change* (New York: Routledge).
- IPCC, 2007: *Climate Change 2007. The Physical Science Basis*, Working Group I Contribution to the Fourth Assessment Report of the IPCC (Cambridge – New York: Cambridge UP); at: <<http://www.ipcc-wg1.org/>>.
- IPCC, 2007a: *Climate Change 2007. Impacts, Adaptation and Vulnerability*. Working Group II Contribution to the Fourth Assessment Report of the IPCC (Cambridge – New York: Cambridge University Press, December); at: <<http://www.ipcc-wg2.org/>>.
- IPCC, 2007b: *Climate Change 2007. Mitigation and Climate Change*. Working Group III Contribution to the Fourth Assessment Report of the IPCC (Cambridge – New York: Cambridge UP); at: <http://www.mnp.nl/ipcc/pages_media/ar4.html> and: <<http://www.mnp.nl/ipcc/docs/FAR/ApprovedSPM0405rev4b.pdf>>.
- IPCC, 2007c: *Climate Change 2007. Synthesis Report* (Geneva: IPCC); at: <http://www.ipcc.ch/pdf/assessment-report/ar4/syr/ar4_syr.pdf>.
- IPCC, 2011: *Renewable Energy Sources and Climate Change Mitigation [SRREN]* (Geneva: IPCC).
- IPCC, 2011-2012: *Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation [SREX]* (Geneva: IPCC, forthcoming).
- Kuhn, T.: *The Structure of Scientific Revolutions*, 1962.
- Polanyi, K.: *The Great Transformation. The Political and Economic Origins of Our Time*, 1944
- Dalby, S.: *Security and Environmental Change* (Polity, 2009).
- Scheffran/Brzoska/ Brauch/Link/Schilling (Eds.): *Climate Change, Human Security and Violent Conflict: Challenges for Societal Stability*, 2012. The book will be published in December 2011 and then also the electronic version will be online but without an integrated bibliography.
- Schellnhuber, Hans Joachim; Cramer, Wolfgang; Nakicenovic, Nebojsa; Wigley, Tom; Yohe, Gary (Eds.), 2006: *Avoiding Dangerous Climate Change* (Cambridge: Cambridge University Press).
- Schellnhuber, Hans Joachim; Crutzen, Paul J.; Clark, William C.; Claussen, Martin; Held, Hermann (Eds.): *Earth System Analysis for Sustainability* (Cambridge, MA; London: MIT Press).
- Von Weizsäcker, Ernst-Ulrich; Lovins, A. B.; Lovins, L. H., 1997: *Faktor IV. Doppelter Wohlstand - halbiertes Naturverbrauch. Der neue Bericht an den Club of Rome* (München: Droemer Knauer).
- WBGU, 2008: *World in Transition – Climate Change as a Security Risk* (London: [Earthscan](http://www.earthscan.com/)); at: <http://www.wbgu.de/wbgu_jg2007_engl.html >.
- Zlotnik, Hania, 2011: "Population Prospects and the Challenges of Sustainability", in: Brauch, Hans Günter; Oswald Spring, Úrsula; Mesjasz, Czeslaw; Grin, John; Kameri-Mbote, Patricia; Chourou, Béchir; Dunay, Pal; Birkmann, Jörn, 2010: *Coping with Global Environmental Change, Disasters and Security – Threats, Challenges,*

Seminar topics (please choose 3 with the No. of the seminar topic)

Friday, 18.11., 18.30-20.00: The Great Global Transition: Towards a Fourth Sustainability Revolution

2. 18.11., 18.30-20.00: Brauch lecture: From Holocene to Anthropocene: Change in earth history and political geology for the Anthropocene: Relevance for international relations (IR)

Saturday, 19.11., 8.15-17.15: Global Environmental Change and Sustainability Revolution

3. 19.11., 8.15-9.45: **Kuhn's structure of scientific revolutions: the theoretical argument**
R-1: Concepts and theories of political revolutions in the social sciences
R-2: Kuhn's Theory: Structure of scientific revolutions (1962): Response of political scientists
4. 19.11., 10.00-11.30: **First three revolutions: agricultural, industrial, communication (IT) revolutions**
R-3: The first agricultural revolution:
R-4: The second industrial revolution: Polanyi: the Great Transformation (1944)
R-5: The third communication and IT revolution:
5. 19.11., 12.15-13.45: **Global environmental change: Impacts on political revolutions of 1789, 1848, 1911, 1917 and 2011 (Jasmin revolution): Has there been an environmental trigger:**
R-6: European revolutions of 1789 and/or 1848: extreme weather, bad harvests and hunger as a cause?
R-7: Mexican (1910) or Soviet revolution (1917): extreme weather, bad harvests and hunger as a cause?
R-8: Revolutions in the Arab world (2011): Were extreme weather, bad harvests, food price hikes a cause?
6. 19.11., 14.00-15.30: **The climate policy paradox: Promises without commitment: G8's credibility gap**
R-9: Legal obligations for parties of the UN Framework Convent. on CC (1992) and Kyoto Protocol (1997)
R-10: Implementation of the quantitative emissions reduction obligations of Annex-1, Annex B countries
R-11: Promises of the G-8 countries at their summits between 2007-2011 and their performance
7. 19.11., 15.45-17.30: **The call of natural scientists for a new 'Copernican Revolution' of sustainability**
R-12: Did the Copernican Revolution trigger a paradigmatic change in science and worldviews?
R-13: The proposal of Clark, Crutzen and Schellnhuber (2004): for a new Copernican revolution
R-14: Policy promises and implementation gap: How to achieve the goal of a 50% CO₂ reduction by 2011
8. 25.11., 14.00-20.00: **Elements of a Fourth Sustainability Revolution: Changing worldviews and mindsets?**
9. 25.11., 14.00-15.30: **WBGU Perspective (2011): A new social contract for a new global transformation**
R-15: WBGU (2011): Mega trends of the earth system, of the global economy and society and of values (1-2)
R-16: WBGU (2011): The Great Transformation: a heuristic concept and obstacles to its achievement (3-4)
R-17: WBGU (2011): Preparing for a new global transformation, actors and recommendations for action
9. 25.11., 15.30-16.30: **Elements of a 'Fourth Sustainability Revolution'**
R-18: The arguments of the proponents of business as usual in science and politics
R-19: The arguments of the proponents of a fundamental change in knowledge creation
10. 25.11., 16.30-18.00: **Changing worldviews of scientific disciplines, of political science and IR**
R-20: Evolution of the concept of worldviews and macro theories in international relations: school debates
R-21: Is there a change of macro theories of political science due to Global environmental change and CC?
R-23: Is there a change of macro theories of IR due to global environmental and climate change?
11. 25.11., 18.15-19.45: **Changing the mindsets of policy makers**
R-24: Evolution of the concept of mindsets in political science and in IR (e.g. Ken Booth)
R-25: Did the end of the Cold War cause a change in the mindset of key policy makers?
R-26: Did the understanding of the urgency of GEC and CC change the mindset of key policy makers?
12. 26.11., 8.15-17.15: **Implementing the Fourth Sustainability Revolution until 2050**
R-27: The scientific debate on sustainability transitions
R-28: Actors of a global transformation towards sustainability: science, society, business, politics?
R-29: Institutions of a global transformation towards sustainability: science, society, business, politics?
13. 26.11., 10.00-11.30: **Goal of a sustainable transformation of the world economy: UNEP, OECD visions**
R-29: OECD publications and perspectives on a green economy
R-30: UNEP/UNDP publications and perspectives on a green economy
R-31: EU debate and policy decisions on a sustainable transformation of the economy
14. 26.11., 12.15-13.45: **Changing energy policies: Decarbonization of the global economy**
R-32: The scientific debate on a decarbonisation of the economy
R-33: The energy efficiency revolution: from factor 4 to factor 10: E.U. von Weizsäcker
R-34: Strategies for replacing fossil energy sources with renewables (WBGU, IPCC Special Report)
15. 26.11., 14.00-15.30: **Sustainable development with a sustainable peace**
R-35: The complex policy debate on sustainable development: Since Brundtland Report (1987) till today
R-36: The emerging scientific and policy debate on a sustainable peace
R-37: Linking sustainable development and sustainable peace: A challenge for the Anthropocene?
16. 26.11., 15.45-17.30: **Implementing a sustainable peace: Action goals for EU and UN: Task of Rio+20?**
R-38: EU-initiatives for implementing the 20/20/29 goal by 2020, Plans for a decarbonisation of energy?

R-39: Emerging UN-CSD debate on Rio+20 resulting in the Rio Summit in June 2012

R-40: Assessment of proposals from the scientific community and/or from NGOs or social movements