

## Proceedings of The Hague Conference on Environment, Security and Sustainable Development

The Peace Palace, The Hague, The Netherlands  
9 - 12 May 2004



### Opening: Environmental Security in the 21st Century

*Organised by the Institute for Environmental Security and  
European Centre for Public Affairs*

*Moderator: Tom Spencer*, Visiting Professor of Global Governance, University of Surrey / Former President of the Foreign Affairs, Security and Defence Policy Committee of the European Parliament (1997-1999) / Senior Advisor, IES

#### **The International System and the Global Environment in the Long Twentieth Century:**

Prof John McNeill, Cinco Hermanos Chair of Environmental and International Affairs, Walsh School of Foreign Service, Georgetown University / Author of *"Something New Under the Sun"*

**Comments by Dr Emad Adly**, General Co-ordinator, Arab Network for Environment and Development / Nile Basin Discourse-Civil Society Engagement on the Nile

**Comments by Juan Dumas**, Director General, Fundacion Futuro Latinoamericano, Ecuador

**Comments by Dr John Ashton**, CEO, E3G: Third Generation Environmentalism / Former Director for Strategic Partnerships, LEAD International / Former Head, Environment Policy Department, Foreign and Commonwealth Office, UK



### Session 1: The Environment and Security Challenge

*Organised by the Institute for Environmental Security*

*Moderator: Wouter Veening*, Director, Institute for Environmental Security / Former Policy Director, Netherlands Committee for the IUCN

[Emerging Challenges to Environmental and Human Security:](#) **Pieter Van Geel**, State Secretary for Housing, Spatial Planning and the Environment, The Netherlands

[Message from Margot Wallström, European Commissioner for the Environment:](#)

Presented by **Margaret Brusasco-Mackenzie**, Member Green Globe Network / Former Advisor for Sustainable Development, DG Environment, European Commission

[What should be the role of the United States?:](#) **Frank E Loy**, Chairman, Environment 2004 / Former US Under Secretary of State for Global Affairs

**What should be the role of the United Nations?: Frits Schlingemann**, Director and Regional Representative, Regional Office of Europe, United Nations Environment Programme



## **Session 2: Resources and Sources of Conflict**

**Organised by the United Nations Environment Programme (UNEP)**

**Moderator: Frits Schlingemann**, Director and Regional Representative, Regional Office of Europe, United Nations Environment Programme

**Sources of Environmental Conflict:** [Prof Dr Andjelka Mihajlov](#), University of Novi Sad / Former Minister for Environment and Natural Resources, Serbia

**The Anatomy of Resource Wars:** [Michael Renner](#), Senior Researcher and Project Director for Vital Signs, World Watch Institute

**Examples of the Environment - Security Interface:** [Sirojiddin Aslov](#), Chairman of the Executive Committee of the International Fund for Saving the Aral Sea / 1st Vice-minister of Foreign Affairs of Tajikistan

**The Impact of Europe's Resource use on the World:** [Dr Martin Rocholl](#), Director, Friends of the Earth Europe

**The Activities of CCMS in the field of Environment and Security:** [Dr Deniz Beten](#), Programme Director, Committee on the Challenges of Modern Society, NATO

## **Session 3: International Law and Global Governance**

**Organised by Global Environmental Governance Project, Yale Center for Environmental Law and Policy and Permanent Court of Arbitration**

**Moderator: Dr John Ashton**, CEO, E3G: Third Generation Environmentalism / Former Director for Strategic Partnerships, LEAD International / Former Head, Environment Policy Department, Foreign and Commonwealth Office, UK

**The Role of Conflict Prevention and Dispute Resolution:** [Tjaco T van den Hout](#), Secretary General, Permanent Court of Arbitration

**The Role of Non-compliance Procedures:** [René Lefeber](#), Legal Adviser, Ministry of Foreign Affairs, The Netherlands

**The Next Steps for Global Environmental Governance:** [Maria Ivanova](#), Director, Global Environmental Governance Project, Yale Center for Environmental Law and Policy



## Parallel Roundtables - Round I

### Parallel Roundtable A-I:

#### **Diplomacy-I: Resources and Conflict: Policy Responses**

*Organised by International Institute for Sustainable Development (IISD) and IUCN - The World Conservation Union*

*Moderators:* **Duncan Brack**, Associate Fellow, Royal Institute of International Affairs / Senior Policy Advisor, UK Liberal Democratic Party and **Mersie Ejigu**, President and Chief Executive Officer of Partnership for African Environmental Sustainability (PAES) / Former Minister of Planning and Development / Former Minister of Agriculture and Natural Resources, Ethiopia

*Rapporteurs:* **Jason Switzer**, IISD and **Sonia Pena-Moreno**, IUCN

*Resource Persons:*

[Addressing Livelihood Difficulties](#): Is it Time for an Environmental Marshall Plan: **Dr Leif Ohlsson**, Dept of Peace & Dev Research Goteborg University / Editor, "Environment, Development & Conflict - EDC News" electronic newsletter & website

**Global Change and Environmental Conflict Avoidance**: PD Dr **Hans Günter Brauch**, Chairman, Peace Research and European Security Studies / Otto-Suhr Institute for Political Science, Free University of Berlin, Germany

**Impacts of Desertification on Conflict Risk: Programme Actions**: **Rajeb Boulharouf**, External Relations and Public Information Unit, United Nations Convention to Combat Desertification (UNCCD)

### Parallel Roundtable B:

#### **Security as Independence or Interdependence: Implications for Global Governance**

*Organised by Global Environmental Governance Project, Yale Center for Environmental Law and Policy*

*Moderator:* **Maria Ivanova**, Director, Global Environmental Governance Project, Yale Center for Environmental Law and Policy

*Rapporteur:* **Lindsey Powell**, Research Assistant, Global Environmental Governance Project, Yale Center for Environmental Law and Policy

*Resource Persons:*

**Bert Axel Szelinski**, Head of Division G II 3, Cooperation with OECD Member States: OECD, OSCE, UN-ECE, NATO-CCMS, Federal Ministry for the Environment, Germany

**Harris Gleckman**, Chief, New York Office, UNCTAD

**Dr John Ashton**, CEO, E3G: Third Generation Environmentalism / Former Director for Strategic Partnerships, LEAD International / Former Head, Environment Policy Department, Foreign and Commonwealth Office, UK

**Prof John Forgach**, Investment Banker, McCloskey Fellow, Yale

[Roundtable Summary](#)

## **Parallel Roundtable C:**

### **Finance-I: Building Blocks for a Sustainable Future**

*Organised by Institute for Environmental Security and TransGlobal Ventures, Inc.*

*Moderator:* **Franz Knecht**, Managing Partner, Connexis

*Rapporteur:* **Barry Spergel**, International Lawyer and Environmental Financing Consultant, formerly with Center for Conservation Finance, World Wildlife Fund, US

*Resource Persons:*

[The Economic Rationale for Investing in Life-supporting Ecosystems:](#) **Dr Paul Jefferiss**, Economist, Royal Society for the Protection of Birds

[Full Powerpoint presentation](#) - 7MB

[Climate Change and Mounting Financial Risks:](#) **Dr Andrew Dlugolecki**, ANDLUG Consultancy

[Reducing Risks by Setting Measurable Targets:](#) **Dr Mathis Wackernagel**, Co-creator of the Ecological Footprint and Executive Director of the Global Footprint Network

[Full Powerpoint presentation](#) - 2.5MB

[Renewable Energy Targets: Targets, Investments, Employment:](#) **Oliver Schaefer**, Policy Advisor, European Renewable Energy Council (EREC)

[Full Powerpoint presentation](#) - 1.5MB

[Roundtable Summary](#)

## **Parallel Roundtable D:**

### **Education-I: Preparing Civil Society**

*Organised by EuroCampus Institute and University for Peace*

*Moderator:* Prof Dr M.C.E. (Rietje) van Dam-Mieras, Professor and Former Rector, Open University, NL

*Rapporteur:* Dr Fayen d'Evie, UPEACE

*Resource Persons:*

[Learning In a Global Society:](#) Prof Dr M.C.E. (Rietje) van Dam-Mieras, , Professor and Former Rector, Open University, NL

**The Earth Charter as Inspiration:** **Irene Dankelman**, Women's Environment and Development

Organisation (WEDO) / the University of Nijmegen, Netherlands

Promoting Civil Society Dialogue: **Mr Robert Hull**, Director, Directorate A, European Economic and Social Committee / Former Head, Environment and Sustainable Development Policy Unit, EC

Bio-education for Global Environmental Leadership: **Dr Agni Arvanitis Vlavianos**, President and Founder, Biopolitics International Organisation

**Learning Participation, Consensus Building and Conflict Management:** **Léna Salamé**, PCCP Project Co-ordinator, UNESCO

## Evening Session 10 May

Reception offered by the Mayor of the City of The Hague, Mayor W. J. Deetman with [speech by Vice Mayor M. \(Ries\) Smits](#), (photo top right)



Dinner with keynote address by **Tom Spencer**, (photo left), Visiting Professor of Global Governance, University of Surrey / Former Chairman of the Foreign Affairs, Human Rights and Defence Policy Committee of the European Parliament / Senior Advisor, IES

## Session 4: Investing in a Secure and Sustainable Future

*Organised by Institute for Environmental Security and TransGlobal Venture, Inc*

*Moderator:* Harris Gleckman, Chief, New York Office, UNCTAD

**The Ecological Footprint: Natural Resource Accounts for Investment Decisions?:** Dr Mathis



**Wackernagel**, Co-creator of the Ecological Footprint and Executive Director of the Global Footprint Network

**Investing in Stability - Conflict Risk, Markets and the Bottom Line: Paul Clements-Hunt**, Executive Director, UNEP-FI

**Fast Forward to 2025: Three Decisions Our Children will Thank Us For: Steven Lovink**, President TransGlobal Ventures, Inc. / Vice-chair IES

[Full Powerpoint presentation](#) - 6.1MB

[Session Summary](#)

## **Session 5: Environmental Opportunities for Peace Building**

*Organised by Adelphi Research and the Environmental Change and Security Project of the Woodrow Wilson Institute Centre for Scholars with the Green Globe Network*

*Moderator: Margaret Brusasco-Mackenzie*, Member Green Globe Network / Former Advisor for Sustainable Development, DG Environment, European Commission

**Opportunities and Constraints of Environmental Peace Making - Lessons learned from Water, Nature Conservation and the Timber Sector: Alexander Carius**, Co-founder and Director, Adelphi Research

[Full Powerpoint presentation](#)

**The Role of Civil Society Forums in International River Basin Management - the Case of the Nile: Dr Patricia Kameri-Mbote**, Prof. of Law, Department of Private Law, University of Kenya

[Full Powerpoint presentation](#)

[Why the States/Entities in the Jordan River Basin are co-operating over their scarce Water Resource:](#)

**Dr Anders Jägerskog**, EGDI Secretariat, Department for Global Development, Ministry for Foreign Affairs, Sweden

[Full Powerpoint presentation](#)

**Promoting Peace through Transboundary Nature Conservation - The K-2-Siachen Peace Park: Dr Saleem H Ali**, professor Rubenstein School of Environment and Natural Resources, University of Vermont/ Watson Institute for International Studies, Brown University / Author, *Mining, the Environment and Indigenous Development Conflicts*

[Full Powerpoint Presentation](#)

## **Session 6: Building Environmental Knowledge Capital for the 21<sup>st</sup> Century**

*Organised by EuroCampus Institute and University for Peace*

*Moderator: Dr Gottfried Leibbrandt*, Chairman, EuroCampus Institute / Former Director-General for Higher Education and Research, The Netherlands / Former Founding President, Open University of The Netherlands

*Rapporteur: Drs Jeannette E Mullaart*, Programme Officer, Environment & Development Resource Centre

[Learning, Leadership and Sustainability: Dr Jake Reynolds](#), Assistant Director, Programme for Industry, University of Cambridge / CHRONOS Programme, WBCSD

[Full Powerpoint presentation](#)

**Knowledge Creation for Sustainable Development: Building Leadership Capacity: Julia Marton-Lefèvre**, Executive Director of LEAD (Leadership for Environment and Development) International

[Full Powerpoint presentation](#) - 10.3MB

**Educating Citizens on Environmental Rights and Safety: Dr Alexander V Fedorov**, Council Chairman  
Centre for Environmental Initiatives, Russia

**Preparing Society for the 21<sup>st</sup> Century: How Governments, NGOs, the Media and Learning Networks Can Make a Difference: Mersie Ejigu**, President and Chief Executive Officer of Partnership for African Environmental Sustainability (PAES) / Former Minister of Planning and Development; Former Minister of Agriculture and Natural Resources, Ethiopia

[Full Powerpoint presentation](#) - 1.7MB

## Parallel Roundtables - Round II

### Parallel Roundtable A-I (Continued):

#### **Diplomacy-I: Resources and Conflict: Policy Responses**

*Organised by International Institute for Sustainable Development (IISD) and IUCN - The World Conservation Union*

*Moderators: Duncan Brack*, Associate Fellow, Royal Institute of International Affairs / Senior Policy Advisor, UK Liberal Democratic Party and **Mersie Ejigu**, President and Chief Executive Officer of Partnership for African Environmental Sustainability (PAES) / Former Minister of Planning and Development / Former Minister of Agriculture and Natural Resources, Ethiopia

*Rapporteur: Jason Switzer*, IISD and *Sonia Pena*, IUCN

*Resource Persons:*

[The Role of the OSCE: Practical Cases: Annica Carlsson](#), OSCE Environmental Advisor, Office of the Co-ordinator of EEA, OSCE

[Full Powerpoint presentation](#)

**Challenges for Latin American Practitioners in Environmental Conflict Prevention: Juan Dumas**, Director General, Fundacion Futuro Latinoamericano, Ecuador

[Environmental Scarcity and Conflict in Highland Peru: Tom Deligiannis](#), PhD Candidate, Department of Political Science, University of Toronto

**Environmental Governance and Resource Conflict: Mitigation through Public Access Mechanisms: Eric Dannenmaier**, Director, Tulane Institute for Environmental Law and Policy

### Parallel Roundtable E:

#### **Diplomacy-II: US and EU Policies on Security and Environment: The Next Four Years**

*Organised by Brookings Institution and European Centre for Public Affairs*

*Moderator: Nigel Purvis*, Brookings Scholar on Environment, Development, and Global Issues, Brookings Institution / Former US Deputy Assistant Secretary of State for Oceans, Environment and Science

*Rapporteur: Ronald A Kingham*, Deputy Director, Institute for Environmental Security / Former European Co-ordinator, Transatlantic Environment Dialogue

*Resource Persons:*

**Dr Geoffrey D. Dabelko**, Director, Environmental Change and Security Project, Woodrow Wilson International Center for Scholars

**Tom Spencer**, Director European Centre for Public Affairs; former Chairman of the Foreign Affairs,

Human Rights and Defence Policy Committee, European Parliament

**Derek Osborn**, Member of the UK Sustainable Development Commission / Former Director General of Environmental Protection in the UK Department of the Environment / Former Co-Chair 1997 UN General Assembly 5 year review of UNCED / Former Chairman of the Management Board of the European Environment Agency

## **Parallel Roundtable F:**

### **Law-II: Judicial Tools for Preventing and Resolving Environmental Conflict**

*Organised by Permanent Court of Arbitration*

*Moderator: René Lefeber*, Legal Advisor, Dutch Ministry of Foreign Affairs

*Rapporteur: Dane Ratliff*, Legal Counsel, Permanent Court of Arbitration

*Resource Persons:*

**International v. National Jurisdiction over Environmental Disputes: Prof Ellen Hey**, Chair Public International Law, Rotterdam

**Environmental Law Capacity Needs in Developing Countries: Hongxia Liu**, American Bar Association - UNDP International Legal Resource Center

**UNESCO's PCCP Programme as an Example of Pre-adjudicative Techniques in Resolving Natural Resources Disputes: Léna Salamé**, PCCP Project Co-ordinator, UNESCO

**From Prevention to Resolution of Disputes Over Transboundary Watercourses - Recent Trends: Prof Attila Tanzi**, University of Verona

**Litigating Disaster: The Bhopal Catastrophe: Kenneth McCallion**, McCallion and Associates

## **Parallel Roundtable G:**

### **Finance-II: Financial Solutions for a Secure and Sustainable Future**

*Organised by Institute for Environmental Security and TransGlobal Ventures, Inc.*

*Moderator: Prof John Forgach*, Investment Banker, McCloskey Fellow, Yale

*Rapporteur: Dr Andrew Dlugolecki*, ANDLUG Consultancy

*Resource Persons:*

[Conservation Finance: Alternatives and Opportunities: Barry Spergel](#), International Lawyer and Environmental Financing Consultant, formerly with Center for Conservation Finance, World Wildlife Fund, US

[Full Powerpoint presentation](#)

**Carbon Trading: Obstacles and Opportunities: Jan Willem Martens**, EcoSecurities

[Full Powerpoint presentation](#)

**Private Capital as Catalyst of Change: Kate Hampton**, Climate Change Capital / Green Globe Network

[Full Powerpoint presentation](#)

[Macro-markets and Environmental Futures: Dr Emile Servan-Schreiber](#), NewsFutures.com

[Full Powerpoint presentation](#)

## **Parallel Roundtable H:**



## Education-II: Nurturing tomorrow's Leaders

**Organised by EuroCampus Institute and University for Peace**

**Moderator: Jakob Ström**, Head of Section, Division for International Affairs Ministry of the Environment, Sweden / Former International Secretary, National Council of Swedish Youth Organizations

**Rapporteur:** (To be announced)

**Resource Persons:**

**Programme on Environmental Security and Peace: Dr Fayen d'Evie**, UPEACE

**Key Issues for Tomorrows' Leaders in Environmental Affairs: Alexander Gritsinin**, Project Manager, Water Programme, EAP Task Force, ENV, OECD / Former General Manager, Namangan Branch, The Coca-Cola Bottlers Uzbekistan LTD

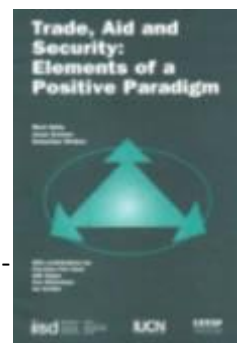
[From Personal Values to Corporate Action: E-learning on the Business Case for Sustainable Development:](#) **Dr Jake Reynolds**, Assistant Director, Programme for Industry, University of Cambridge / CHRONOS Programme, WBCSD

**Enforcing Environmental Law: Training the Judiciary: Amy Hindman**, Legal Advisor to the Executive Director, UNEP, Nairobi

## Evening Session 11 May

**Reception:** Hosted by IISD and IUCN on the occasion of the launch of the programme on "*Trade, Aid and Security: Elements of a Positive Paradigm*" presented by Duncan Brack, Associate Fellow, Royal Institute of International Affairs

**Dinner with keynote address by Derek Osborn**, (photo left) Member of the UK Sustainable Development Commission / Former Director General of Environmental Protection in the UK Department of the Environment / Former Co-Chair 1997 UN General Assembly 5 year review of UNCED / Former Chairman of the Management Board of the European Environment Agency



## Session 7: Science Based Approaches to Environmental Security

**Organised by Institute for Environmental Security and SarVision**

**Moderator: Wouter Veening**, Director, Institute for Environmental Security

**Rapporteur: Ms Jeanna Hyde Hecker**, Institute for Environmental Security

[Space Agencies and Remote Sensing Monitoring Systems](#) **Prof Dirk Hoekman**, SarVision / Wageningen University - 9.9MB

**The Millennium Ecosystem Assessment: Connecting Ecosystems and their Services with**

**Environmental and Social Services Dr Henricus Leemans**, Chair of the Environmental Systems Analysis Group, Wageningen University / Co-Chair Response Option Working Group of the Millennium Ecosystem Assessment

[Full Powerpoint presentation](#) - 4.9MB

**Local Monitoring: Application of Traditional Knowledge to Environmental Security Dr Martin von Hildebrand**, Director, Gaia Foundation, Colombia

[Precaution - From Principle to Implementation in the European Union](#), **Dr Claire Weill**, Institute on Sustainable Development and International Relations - IDDRI

[Full Powerpoint presentation](#)

## **Session 8: Impact of Military/Conflict on the Environment**

*Organised by IUCN and The Netherlands Working Group on Ecology and Development*

*Moderator: Pekka Haavisto*, Chairman, UNEP Post Conflict Assessment Unit / Former Minister of Environment and Development Cooperation, Finland

**Nature in War: Biodiversity Conservation Before, During and After Armed Conflicts Drs Esther Blom**, The Netherlands Working Group on Ecology and Development

[Full Powerpoint presentation](#)

**Military/ Civil Cooperation for Postconflict Ecological Restoration Piet Wit**, The Netherlands Working Group on Ecology and Development

[Full Powerpoint presentation](#) - 1.3MB

**Legal Regulation of the Effects of Military Activity on the Environment Amy M Hindman**, Legal Advisor to the Executive Director, UNEP

[Full Powerpoint presentation](#)

[The Role of the Military and Military Technology in Environmental Protection and Nature](#)

[Conservation](#), **Major General (retd) Joseph G Singh**, Executive Director, Conservation International Guyana / Former Chief of Staff, Guyana

[Full Powerpoint presentation](#) - 2.0MB

## **Session 9: Pathways to Environmental Security**

*Organised by the Institute for Environmental Security*

*Moderators: Johannah Bernstein*, Environmental Law and Policy Consulting and **Ronald A Kingham**, Deputy Director, Institute for Environmental Security

**Presentation of the Chairman's Summary: "Pathways to Environmental Security": Tom Spencer**, ECPA

**Comments by Roundtable Moderators or Rapporteurs**

**What should Governments do now?**

**Bert-Axel Szelinski**, Head of Division G II 3, Cooperation with OECD Member States, OECD, OSCE, UN-ECE, NATO-CCMS, Federal Ministry for the Environment, Germany

**Mersie Ejigu**, Former Minister of Planning and Development / Former Minister of Agriculture and Natural Resources, Ethiopia

[Full Powerpoint presentation](#)

[Urs Schmid](#), Head International Security Section, Centre for International Security, Policy, Federal

Dept of Foreign Affairs, Switzerland

**Pekka Haavisto**, Chairman, UNEP Post Conflict Assessment Unit / Former Minister of Environment and Development Cooperation, Finland

## **Session 10: The Way Forward: From Policy to Practice**

*Organised by Brookings Institution and IES*

*Moderators: Tom Spencer*, ECPA and *Dr Geoffrey D. Dabelko*, Environmental Change and Security Project, Woodrow Wilson International Center for Scholars

### **The Next Steps**

**Summary of Action Proposals and Call for Follow-up Commitments from Participants: Ronald A Kingham**, Deputy Director, Institute for Environmental Security

### **Closing Remarks**

[The Way Forward: From Policy to Practice](#) **Katsuaki L. Terasawa**, Croft Institute for International Studies

**Prof John McNeill**, Cinco Hermanos Chair of Environmental and International Affairs, Walsh School of Foreign Service, Georgetown University

[Pieter van Geel](#), State Secretary for Housing, Spatial Planning and the Environment, The Netherlands



The views expressed in the Conference, Conference Papers, Background Material and Proceedings are those of the participants and authors and are not necessarily those of their organisations, other participants, the IES, the co-organisers or the sponsors of the Conference.

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