



**2001
Open Meeting
Of the Human
Dimensions of
Global Environmental
Change Research
Community**

Rio de Janeiro, Brazil

Program

6-8 October 2001 – Hotel Gloria, Rio de Janeiro, Brazil

2001 Open Meeting Organization

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2001 Open Meeting Program

International Human Dimensions Programme on Global Environmental Change

IHDP fosters high quality research to address the most pressing questions on the human dimensions of Global Environmental Change (GEC). The dynamics of land-use and land-cover change, interactions between institutions and the global environment, human security, sustainable production and consumption systems, as well as food and water issues and the global carbon cycle are investigated in the context of GEC. IHDP aims at producing research results relevant to the policy-making community. Promoting, supporting and co-ordinating research are key activities. In addition, IHDP facilitates research capacity building and international networking.

For further information about IHDP, please contact:

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Center for International Earth Science Information Network (CIESIN) at Columbia University

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Welcome Message

Welcome to Brazil for the 4th Open Meeting of the Human Dimensions of Global Environmental Change Research Community! Research on the human dimensions of global environmental change requires international, multi-disciplinary collaboration, and that is what this meeting is all about. We are building on interactions that took place at the first three Open Meetings: Duke University at Durham, North Carolina in the United States (1995), the International Institute for Applied Systems Analysis (IIASA) in Laxenburg, Austria (1997), and the Institute for Global Environmental Strategies (IGES) in Shonan Village, Japan (1999). These have served as important vehicles for information exchange on current research and teaching, and have provided an opportunity for community building in this emerging field. Without a forum where the leading scholars can meet, present their research and form networks, it will be difficult to develop a comprehensive and dynamic international research agenda. This is the first Open Meeting to take place in a developing country and the organizers hope that this will provide an opportunity to enhance collaboration between scientists in the developing and developed world on important human dimensions themes.

This year's Open Meeting focuses on the following major themes:

- Challenges of Integration in Human Dimensions Research
- Urban Sustainable Development
- Vulnerability
- Poverty and the Environment
- Trade, the State and the Environment
- Integrating Human Dimensions Research into Climate Change Assessments

Additional topics include:

- Attitudes and Behavior
- Consumption and the Environment
- Energy
- Environment and Health
- Environmental and Ecological Economics
- Environmental Governance
- Environmental Security
- Industrial Transformation
- Integrated Assessment
- Land Use and Land Cover Change
- Population and the Environment
- Science-Policy Interface
- Sustainable Development

Organizing an international meeting of this size is not a trivial task. In addition to the International Scientific Planning Committee and the local organizing committee we would particularly like to thank the following people whose help has been invaluable in the preparation of the 2001 Open Meeting: Bruno de Góes, Mary Shaban, Alex de Sherbinin, Maarit Thiem, Pat Temple, Yael Degany, Kurt Lindlahr, and the travel team at UCAR.

We look forward to interactions with all of you over the coming days. It promises to be an exciting and stimulating meeting!

Jill Jaeger
Marc Levy
Mauricio Tolmasquim
(co-chairs of the ISPC)

2001 Open Meeting Program

Program at a Glance

	Saturday, 6 October	Sunday, 7 October	Monday, 8 October	
9:00	Opening Ceremony	Plenary: Sustainable Urbanization	Plenary: Poverty and the Environment	
9:15				
9:30	Plenary: Challenges of Human Dimensions			
9:45				
10:00	Research	Coffee + Poster Session	Coffee	
10:15			Parallel Sessions	
10:30	Coffee Break			
10:45	Parallel Sessions	Parallel Sessions		
11:00				
11:15				
11:30				
11:45				
12:00				Lunch
12:15				
12:30	Lunch			
12:45		Lunch		
13:00				
13:15				
13:30				
13:45				
14:00			Plenary: Vulnerability	
14:15				
14:30	Plenary: Climate Change and Human Dimensions	Plenary: Trade, the State and the Environment		
14:45				
15:00			Coffee	
15:15			Parallel Sessions	
15:30	Coffee + Poster Session			
15:45		Coffee		
16:00		Parallel Sessions		
16:15				
16:30	Parallel Sessions			
16:45				
17:00			Closing Session	
17:15				
17:30				
17:45				
18:00			Farewell Party	
18:15	Opening Reception			
18:30				
18:45				
19:00			Dinner and Samba	
19:15				
19:30				
19:45				
20:00				
20:15				

Program – Saturday, 6 October

Updates to this program will be posted daily on the bulletin board in Salão D.

9:00-9:30 Opening Ceremony

Room: Salão Nobre

Welcoming remarks by Ronaldo Mota Sardemberg (Minister of Science and Technology), José Sarney Filho (Minister of the Environment), Eduardo Moacyr Krieger (President, Brazilian Academy of Sciences), Jill Jaeger (Executive Director, IHDP), Mauricio Tolmasquim (Professor, Federal University of Rio de Janeiro), Marc Levy (Associate Director for Science Applications, CIESIN), and Armando Rabuffetti (Executive Director, Inter-American Institute).

9:30-10:30 Plenary: Challenges of Human Dimensions Research

Chair: Diana Liverman

Participants: William C. Clark, Uno Svedin and Louis Lebel

Because this is the fourth Open Meeting and the first to be held in a developing country, the meeting begins with a plenary panel discussion to reflect on progress made in integration across disciplines, across hemispheres and across the science/policy interface.

10:30-10:45 Coffee Break

10:45-12:30 Parallel Sessions

Sat-am-1 Local Responses to Global Change

Room: Salão Nobre

Chair: Michele Betsill, University of Colorado

Discussant: David Cash, Harvard University

Acting Locally, Does it Matter Globally? The contribution of U.S. cities to global climate change mitigation

Michele Betsill Colorado State University, United States

Climate Change and Public Perception

Harald Heinrichs Research Center Jülich, Germany

Mobilizing for Change: Comparison of Science-Advocacy Coalitions in California and the Gulf of Mexico States, USA

Susanne Moser Union of Concerned Scientists, United States

Urbanisation, Global Environmental Change and Human Security

Chris Cocklin Monash Environment Institute, Monash University, Australia

Sat-am-2 Strategies for Improving Environmental Governance (1)

Room: Salão Branco

Chair: Kilaparti Ramakrishna, Wood Hole Research Center, United States

Desertification as a Global Problem

Minna Jokela Department of Political Science, University of Turku, Finland

Improving Environmental governance in Asia: Institutions for Regional/Subregional Environmental Cooperation

Wakana Takahashi Institute for Global Environmental Strategies, Japan

Coauthors: Kazu Kato

Pension Fund Investment and Environmental Governance

Bernd Kasemir Harvard University, Kennedy School of Government and Swiss Federal Institute for Environmental Science and Technology (EAWAG), Switzerland

Coauthors: Andrea Sueess

2001 Open Meeting Program – Saturday, 6 October

Remote Sensing in Support of Multilateral Environmental Agreements: What Have We Learned from Pilot Applications?

Alex de Sherbinin CIESIN, Columbia University, United States

Coauthors: Chandra Giri

Translating Goals Into Action: Capacity building for dryland management under the Desertification Convention

Elisabeth Corell Swedish Institute of International Affairs, Sweden

Sat-am-3 Integrating Food Systems and Global Environmental Change Research Room: Salão A

Chair: Holger Meinke, Department of Primary Industries, APSRU

GEC-induced changes in water quality and livelihoods of shrimp producers

Louis Lebel Thailand

Coauthors: Suparb Pasong, John Ingram

Integrated modeling and vulnerability: East African livestock systems and global environmental change

Kathleen Galvin Colorado State University, United States

Coauthors: Philip Thornton

Integrating food security and global environmental change research

Mike Brklacich Global Environmental Change & Human Security Project, Department of Geography & Environmental Studies Carleton University, Canada

Coauthors: Leybourne, Shona

Transformations in Food Consumption and Production Systems

Ken Green Manchester School of Management, UMIST, United Kingdom

Coauthors: Mark Harvey, Andrew McMeekin

Sat-am-4 Energy: Assessment, R&D and Strategies Room: Salão E

Chair: Vicki Norberg-Bohm, Harvard University

Discussant: Jose Goldemberg, University of São Paulo

Climate Change and the Oil Industry: Common problem, Different Strategies

Jon Birger Skjaereth The Fridtjof Nansen Institute, Norway

Coauthors: Tora Skodvin

Energy Technology Innovation in China: Roles of Policy, R&D, and Technology Transfer in Technology Development

Jimin Zhao Belfer Center for Science & International Affairs, JFK School of Government, United States

Environmental Implications of the Russian Energy Sector Development in the 90s

Nina Poussenkova Institute of World Economy and International Relations, Russian Academy of Sciences, Russia

Modelling company actions with regard to energy-saving or the effectiveness of environmental policy measures

Jakomijn van Wijk National Institute of Public Health and the Environment (RIVM), Netherlands

Coauthors: R.F.J.M. Engelen, J.P.M. Ros, H. Booij

The Role of Assessment, R&D, and Regulation in Building U.S. National Energy Innovation Capabilities

Vicki Norberg-Bohm BCSIA John F. Kennedy School of Government, Harvard University, United States

Coauthors: Robert Margolis

2001 Open Meeting Program – Saturday, 6 October

Sat-am-5 Land-Use and Land-Cover Change in Amazonia (1) Room: Salão C

Chair: Emilio F. Moran, University of Indiana

Discussant: Diogenes Alves

Change Patterns of Population and Land Use in Ecuador's Northern Amazon

Stephen J. Walsh United States

Coauthors: William Pan, Richard E. Bilsborrow, Kelley A. Crews-Meyer

Deforestation and frontier expansion in Brazilian Amazonia

Diogenes Alves Instituto Nacional de Pesquisas Espaciais INPE/DPI, Brazil

Growing links: observations on the construction of multi-disciplinary, international research initiatives on land and forest use in southwestern Amazonia.

Irving Foster Brown Brazil

Sat-am-6 Science, Politics and Learning in International Environmental Regimes Room: Salão E

Chair: William C. Clark, Harvard University

Discussant: Frank Alcock, Harvard University

Globalizing Information: Persistent Organic Pollutants from Regional to Global Arenas

Noelle Eckley Denmark

Issue attention, framing, and actor involvement: An analysis of global environmental risks across countries

Nancy Dickson Harvard University, Kennedy School of Government, United States

Coauthors: William Clark, Miranda Schreurs, Jill Jäger

Science and Politics in International Environmental Regimes: Between Integrity and Involvement

Tora Skodvin Center for International Climate and Environmental Research, Oslo (CICERO), Norway

Coauthors: Steinar Andresen, Arid Underdal, and Jørgen Wettestad

Science and Politics in International Environmental Regimes: Findings and Lessons from five different regimes

Steinar Andresen The Fridtjof Nansen Institute, Norway

Coauthors: Arild Underdal, Tora Skodvin and Jørgen Wettestad

The linkages between knowledge and action in the management of global environmental risks

Jill Jäger IHDP, Germany

Coauthors: Josee van Eijndhoven, William Clark

Sat-am-7 Vulnerability to Environmental Change in Pacific Island Room: Annex 360

Chair: Roger Kasperson, Stockholm Environment Institute, Sweden

Climate Change and Sustaining Tourism: A Case Study of Fiji Islands

Biman Chand Prasad The University of the South Pacific, Fiji

Community Vulnerability and Adaptation to Climate Change in Pacific Island Countries

John Campbell Department of Geography University of Waikato, New Zealand

Social Vulnerability to Climate Change in Pacific Island Countries: What and How do we Know?

Jon Barnett Macmillan Brown Centre for Pacific Studies, University of Canterbury, New Zealand

Sustainability and Vulnerability in Fiji

Lionel Gibson Fiji

12:30-14:30 Lunch

Buffet lunches will be served in Salão Dourado and the Restaurante Gritta.

13:15-14:30 Round Table: Global Science Panel on Population and Environment and Discussions on the Role and Incorporation of Populations and Human Dimensions in Sustainable Development for the World Summit on Sustainable Development (Johannesburg, September 2002)

Chair: Wolfgang Lutz and Mahendra Shah, IIASA
Participants: Open Discussion
Room: Salão Nobre

This open lunch-time roundtable offers an opportunity for conference participants to discuss the substantive contribution that the human dimensions research community can make to preparations for the World Summit for Sustainable Development.

14:30-15:30 Plenary: Climate Change and Human Dimensions

Chair: Elena Nikitina
Speaker: Shardul Agrawala
Commentator: Youba Sokona

With the release of the Third Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) in 2001, the Open Meeting provides an opportunity to assess the inclusion of human dimensions research in the IPCC process. The need for consideration of results of human dimensions research in negotiations of the climate regime will also be considered.

15:30-16:30 Coffee and Poster Session

Poster Poster Session 1 Room: Panorâmico

An Economic Study of influence of Biodiversity on livelihood options of a tribal community in India

Chinnappa B.V.Reddy India
Coauthors: K.N. Ganeshaiah, Lalith Achoth, C.P.Gracy, and M.R.Girish

Conservation policy and social conflicts in protected areas of the Himalaya and options for conflicts resolution: A case study from Nanda Devi Biosphere Reserve, India

Dr. Rakesh Kumar Maikhuri India
Coauthors: K.S. Rao, S. Nautiyal

Data and indicator issues on environment and human security in Romania: An institutional perspective

Daniela Luminita Constantin Academy of Economic Studies of Bucharest, Romania, Romania
Coauthors: Constantin Mitrut

Environmental Economics of the Khangchendzonga National Park in the Sikkim Himalaya, India

Suresh Chand Rai G.B. Pant Institute of Himalayan Environment and Development,

Genetics Resources and Biodiversity: Traditional Resources Rights versus Intellectual Property Rights

Pierina German Castelli Brazil
Coauthors: John Wilkinson

Health impacts of use of biofuels in the rural areas of India

Vijay Laxmi Pandey Indira Gandhi Institute of Development Research, India
Coauthors: Jyoti Parikh

Integrated assessment of the effects of climate change and human activities on the temperate grassland, China

Yinpeng Li Institute of Atmospheric Physics, Chinese Academy of Sciences, China

Coauthors: Jinjun Ji

Integration of Land and Water in a spatially explicit Multi-Agent Programming Model for Chile

Thomas Berger Germany
Coauthors: Presented by Marc Andreini

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International distribution of technological risks and their impacts upon human health and the environment in a semi-arid region: A socio-spatial stratification?

Raquel Maria Rigotto Universidade Federal do Ceará, Brazil

Is water the limit? Population Spatial Distribution and Water Resources in São Paulo State (Brazil)

Roberto Luiz Carmo Population Studies Center (NEPO) State University of Campinas
(UNICAMP), Brazil

Local and National Environmental Movement faced to Climate Change Challenges in Post-Kyoto era: Links between Buen Ayre Forum and Argentine Republic Government

Elda Viviana Tancredi Social Sciences Department, Lujan National University, Argentina

Long-term Monitoring of Urbanization in the Brazilian Amazon Using Optical Remote Sensing

Rebecca Powell Department of Geography, University of California, Santa Barbara,
United States

Measuring the Impact of Economic Growth and Trade Liberalization on Environmental Policy Performance: Comparison of Developed and Developing Countries

Savas Alpay Bilkent University, Turkey

Coauthors: Syed Mahmud, Ahmet Caliskan

Meso-scale drivers of land-use change in Amazônia: logging and soybeans along the Santarém-Cuiabá highway (BR-163)

Ane Alencar Instituto de Pesquisa Ambiental da Amazonia - IPAM, Brazil

Coauthors: Daniel C. Nepstad, David McGrath, Maria del Carmen Vera, Luciano Mattos, Socorro

Monitoring and management of urban heat island: Application to urban planning process

Toshiaki Ichinose Japan

Coauthors: Mikami Takehiko, Niitsu Kiyoshi

Mutual Adaptation of Science and Politics

Neil Harrison University of Wyoming Sustainable Development Institute, United
States

Coauthors: Gary C. Bryner

Public Policy-Making and Farmer Vulnerability in the State of Ceará, Northeast Brazil

Dario Mayorga Brazil

Coauthors: Iries Mayorga

Road Paving, Fire Regime Feedbacks, and the Future of Amazon Forests

Daniel Nepstad United States

Coauthors: DanGeorgia Carvalho, Ana Cristina Barros, Ane Alencar, João Paulo Capobianco, Josh

Social and Economic Impact of Global Change On Some Tropical Fisheries

Ernesto A. Chávez Instituto Politécnico Nacional, Centro Interdisciplinario de Ciencias
Marinas, Mexico

Social perception of the industrial pollution at local scale. The case of Jaúregui in the Metropolitan Area of Buenos Aires city in Argentina.

Maria Cristina Luchetti Auxiliary Teacher of the Geography Division, Social Sciences
Department, University of Lujan, Argentina, Argentina

Sustainable development as a possible way of progress in the Alföld (Great Hungarian Plane) region of Hungary

Krisztina Toth Hungary

The Coastal Floods In The Cuban Territory, The Most Sensitive Areas And The Possible Impact Of The Climate Change

Ida Mitrani Arenal Institute of Meteorology of Cuba, Cuba

Coauthors: Rafael Pérez Parrado, Isidro Salas García, Omar García Concepción, Maritza Ballester

The Forum of the Patos Lagoon: local lessons, national challenges and implication for conservation of natural coastal resources

Daniela Kalikoski Institute for Resources and Environment (IRE), University of British
Columbia, Canada and Federal University of Rio Grande, Brazil

Coauthors: Les Lavkulich

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The impact of accidental fires in southwestern Amazonian agroecosystems and forests. A case study in Acre State, Brazil.

Elsa Mendoza Brazil
Coauthors: I. F. Brown, D. Nepstad, D. Selhorts

16:30-18:15 Parallel Sessions

Sat-pm-1 Trade as a driving force of Global Environmental Change Room: Annex 360

Chair: Roberto Sanchez, Dept. of Environmental Studies, University of California Santa Cruz

Physical trade balances and their applications for Land Use Changes: The example of the EU-15

Stefan Giljum Austria
Coauthors: Günther Fischer, Klaus Hubacek, Friedrich Hinterberger

The role of market integration on wealth differentiation among Amazonian indigenous peoples

Carla Morsello School of Environmental Sciences, University of East Anglia , United Kingdom

Timber Industry, Local Institutions and Forest Management in Southeast Asia

Suparb Pasong Thailand
Coauthors: Louis P. Lebel

Trade as a Driving Force for Regional Environmental Change in North America. The NAFTA Experience

Roberto Sanchez Department of Environmental Studies, University of California, Santa Cruz, United States

Sat-pm-2 Climate Change and Global Cities: Vulnerability, Adaptation, and Mitigation Linkages Room: Salão Nobre

Chair: Cynthia Rosenzweig, Goddard Institute for Space Studies

Discussant: William D. Solecki, Montclair State College

A Global Analysis of Urban Population Distributions and the Physical Plant

Christopher Small Columbia University, United States

Climate Change and the Urban Heat Island: Methods for Defining Complex Impacts and Vulnerabilities in Sao Paolo, Brazil

Magda A. Lombardo Brazil

Middle Eastern cities -water needs in the twenty-first century

Peter Beaumont United Kingdom

The Impacts of Potential Climate Change for Shanghai, China.

Shu Jiong China

Understanding Climate Change Impacts on a Global City: New York City, 2000-2080

Roberta Balstad Miller CIESIN, United States

Sat-pm-3 Understanding Environment-Economy Linkages Room: Salão C

Chair: Alex Pfaff, Columbia University, School of International & Public Affairs, United States

Cost-Benefit Analysis of Wetland Conservation: A Case Study of Floodplain Wetland Ecosystems Along the Yamuna River Corridors of Delhi Region

Pushpam Kumar Institute of Economic Growth, India
Coauthors: Babu,C.R., Agrawal,R. Prasad,L.

Economic Valuation of Environmental Functions of a Landscape

Vladimir Kremsa Mexico

Economic value of exploring, using and conserving the plant genetic resources in Vietnam with an aim to approach an possibility of sustainable usage

Chinh Nguyen The Sound Image Foundation Network, Vietnam

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Sub-Sahara Africa in The Global Economy: The Natural Capital Dimension

Jekwu Anthony Ikeme United Kingdom

Coauthors: Professor Brian Field and Professor Cedric Pugh

The Vulnerability Of Forest-Based Economies To Climate Change: A CGE Analysis Of The Mid-Atlantic Region Of The United States

Adam Z. Rose United States

Coauthors: Adam Rose, Shu-Yi-Liao, and Gauri Guha

Sat-pm-4 National Environmental Governance Strategies

Room: Salão G

Chair: Eduardo Viola, University of Brasilia, Brazil

Global Environmental Federalism? The Fiscal Federalism Approach for Multi-Level Political Structures.

Wiebke Lass Germany

Structure and Influence of International Assessments: Lessons from Eastern Europe

Liliana Botcheva-Andonova Columbia Earth Institute, United States

Transgovernmental Solutions for Transnational Dilemmas: Lessons from Environmental Policy Innovators in Brazil and the United States

Ronie Garcia-Johnson Duke University, Nicholas School of the Environment, United States
United States, Brazil and Argentina in the global politics of climate change: a comparative approach

Eduardo Viola University of Brasilia, Brazil

Voluntarism as a Strategy for CO2 Reduction: Comparative Analysis of the Effectiveness of Voluntary Policies in the US, Europe and Japan

Eric Welch University of Illinois at Chicago, College of Urban Planning and Public Affairs Graduate Program in Public Administration, United States

Coauthors: Akira Hibiki

Sat-pm-5 Values, attitudes and behaviour

Room: Salão G

Chair:

Cultural Ecological Responses to Environmental Change (Lessons from Javanese Transmigrants in Kalimantan, Indonesia)

Deny Hidayati Center for Population Studies, the Indonesian Institute of Sciences, Indonesia

Public Perception of Global Change: Intra-National Spatial Comparisons

Marieta P. Staneva Center for Integrated Regional Assessment, Pennsylvania State University, United States

The Consumer Lifestyle Approach to Resource Management and Sustainability

Bin Shui Department of Engineering and Public Policy Carnegie Mellon University, United States

Coauthors: Hadi Dowlatabadi, Baruch Fischhoff

The greening of Brazilians: overstatement of concern or deep-rooted values and behavior change?

Solange Simões Federal University of Minas Gerais, Institute for Social Research/ University of Michigan, United States

Sat-pm-6 Land-Use and Land-Cover Change in Amazonia (2)

Room: Salão Branco

Chair: Daniel Nepstad, Woods Hole Research Center

Amazon Scenarios: The Impact of Brazil's Amazon Development Policy

Georgia Carvalho United States

Coauthors: Daniel Nepstad, Ana Cristina Barros, David McGrath, Maria Del Carmen Vera Dias

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Socioeconomic Factors Influencing the Use and Misuse of Riparian Forest in the Central Amazon Basin of Peru

Rosa E. Cossío Florida International University Department of Environmental Studies, United States

Coauthors: Michael E. McClain and David B. Bray

Socio-environmental Consequences of Land Cover Change in Brazil's Center West Region

Daniel Joseph Hogan Brazil

Coauthors: Roberto Luiz do Carmo and Jose Marcos Pinto da Cunha

The economic aspects of ground fires in forests in Amazônia

Larissa Chermont United Kingdom

Sat-pm-7 Vulnerability to Environmental Change in Latin America (1) Room: Salão A

Chair: Virginia Garcia-Acosta, Research & Advanced Studies Center in Social Anthropology, Mexico

Information, Vulnerability and Disaster Process in Mexico

Virginia García Acosta Research and Advanced Studies Center in Social Anthropology (CIESAS), Mexico

Information: strengthening vulnerability reduction in Peru

Eduardo Franco ITDG (Intermediate Technology Development Group), Peru

Coauthors: Juan Carlos Gil

Public policy, risk management and socio-natural disasters in Chile

Alejandro León Universidad de Chile, Chile

Coauthors: Patricio Villarroel

Social vulnerability to floods in Buenos Aires City (Argentina) the cases of La Boca neighborhood and the basin of Maldonado stream

Silvia Graciela Gonzalez Instituto de Geografía, FFYL-UBA, Argentina

Coauthors: Elvira Eleonora Gentile

Summer Rains in the Arid Zones of the Andes Mountain: The Case of Aymaras and Atacamenos.

Milka Castro Lucic University of Chile Department of Anthropology, Chile

Coauthors: Miguel Bahamondes Parrao

18:15-20:15 Opening Reception

A new book will also be launched at the reception: *Human Dimensions of Global Environmental Change: A Brazilian Perspective* (Daniel Joseph Hogan and Mauricio Tiomno Tolmasquim, eds.). All those in attendance will receive vouchers for a free copy of the book.

Program – Sunday, 7 October

Updates to this program will be posted daily on the bulletin board in Salão D.

9:00-10:00 Plenary: Sustainable Urbanization

Chair: Tunde Agbola
Speaker: Peter Newman
Commentator: TBA

A meeting held in Rio de Janeiro must surely consider this issue. As we move into the new century, it is clear that with more than half of the world's population living in cities, the rapid and continuing rate of urbanization will provide major challenges to human dimensions researchers as they consider the transition to sustainability.

10:00-11:00 Coffee and Poster Session

Poster Poster Session 2

Room: Panorâmico

A discursive turning point: How Bush's rejection of the Kyoto Protocol furthered its ratification

Angela Oels German Advisory Council on Global Change (WBGU), Germany

Apparent productivity and efficiency Vs environmental sustainability: the case of commercial livestock ranching in Botswana.

Lapologang Magole Botswana
Coauthors: Dr. Raban Chanda

Assessing Vulnerability to Climate Risk: a case study of affluent ranchers and destitute farmers in Sonora, Mexico

Marcela Vasquez-Leon United States

Challenges of Data Integration in the Study of a Complex System: A Case Study of Lake Atitlán in Guatemala.

Edwin Castellanos Centro de Estudios Ambientales, Universidad del Valle de Guatemala, Guatemala
Coauthors: Maricruz de Mejía, Willy Knedel

Changing Land Use Patterns in the Tijuana River Watershed and the Conservation of Transborder Natural Resources

Lina Ojeda El Colegio de la Frontera Norte, Mexico

Economic Ecological Valuation Through the Willingness to Work - volunteer Hypothesis

Sérgio Mattos Brazil

Economy-Energy-Emission (E-Cubed) Model for Mega-Cities in Asia

Tae Yong Jung Japan
Coauthors: Choon-Geol Moon, Shinji Kaneko and Hidefumi Imura

Environmental Change in The Mediterranean: The linkage of National/Local, Regional and Global Dimensions

Yannis Kinnas Greece

Environmental security for a growing population - A critical look on the human dimensions of population growth, food Security, quality of life and environment in the next few decades in India

Neeraj Sharma India

Global Material and Money Flows: Quantifying Environmental Impacts of Industrial Transformation

Stefan Giljum Austria
Coauthors: Friedrich Hinterberger

Global Population, Primary Productivity and Economic Prosperity

Cristina Milesi Numerical Terradynamic Simulation Group, School of Forestry
University of Montana, United States

Coauthors: Ramakrishna Nemani, Steven W. Running

Innovative Experiences in International and Inter-institutional Cooperation for the Conservation and Sustainable Uses of Biodiversity in Brazil: The case of Mamirauá Project.

2001 Open Meeting Program – Sunday, 7 October

- Cristina Yumie Aoki Inoue Departamento de Relações Internacionais Centro de Desenvolvimento Sustentável Universidade de Brasília, Brazil
- Integration of Physical and Social Sciences in Regional Resource Modeling in the GLOWA Volta Project*
- Marc Andreini Center for Development Research Bonn University, Germany
- Coauthors: Annette van Edig, Nick van de Giesen, Thomas Berger, Paul L.G. Vlek
- Land Use Changes Under Pressure of Urbanization: A Time Dimensional Analysis of Ibadan, Nigeria, 1970-2000*
- Babatunde Agbola Nigeria
- Land-use and land-cover change in the Sarapiquí region of northeastern Costa Rica*
- Jane M. Read Department of Geography, Syracuse University, United States
- On The Search For "The Sustainable Scale"*
- Rodolpho Humberto Ramina Brazil
- Pasture instead of rubber? The ranching tendencies of family-based agriculture in extractive reserves and colonization projects in Acre, Brazil, Southwestern Amazonia.*
- F. Kennedy Souza Universidade Federal do Acre, Brazil
- Persistent Organic Pollutants: An Environmental Challenge of Our Time*
- Sergey Kakareka Institute for Problems of Natural Resources Use & Ecology, National Academy of Sciences of Belarus, Belarus
- Temporary migrations in Amazonia: the Bolivian-Peruvian border region of Acre, Brazil.*
- Benedita Esteves Universidade Federal do Acre Setor de Uso da Terra e Mudanças Globais/PZ (SETEM), Brazil
- The changing role of local governments in Environmental Management in Brazil and its effect on Amazon Conservation strategies*
- Ana Cristina Barros Brazil
- Coauthors: Georgia Carvalho, Dan Nepstad, Toby McGrath
- Towards a comprehensive security concept in the Brazilian Amazon*
- Alexander López Escuela de Relaciones Internacionales Universidad Nacional de Costa Rica, Costa Rica
- Trajectories of Poverty, the Environment and Peasant Revolts in Africa: A Case study of Ethiopia*
- Zenebe Nega Bashaw ENEA CR Casaccia, Japan
- Vulnerability of Socio-Ecological Systems to Global Environmental Change*
- Andrew Schiller United States
- Coauthors: Wen-Hua Hsieh
- What can be said about tomorrow's sea battle? Scenario building in corporate planning and in global change research*
- Martin Welp Potsdam Institute for Climate Impact Research (PIK), Germany

11:00-12:45 Parallel Sessions

Sun-am-1 Forests and Agriculture as Potential Carbon Sinks

Room: Salão A

Chair: Granville Sewell, Massachusetts Institute of Technology

Discussant: Oran Young, Dartmouth College

A Pre-Feasibility Study on Implementing Soil Carbon Sequestration Activities in Senegal: The USAID/AFR-SD Project

Petra Tschakert United States

Coauthors: L. Tieszen, P. Woome, M. Sene, and P. Bartel

Carbon sinks and human freshwater dependence in Stockholm County

Asa Jansson Department of Systems Ecology, Natural Resources Management, Stockholm university, , Sweden

Coauthors: Peter Nohrstedt

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Does Money Grow on Trees? The Case of The Clean Development Mechanism under the Kyoto Protocol and Deforestation in Indonesia

Agus Sari Pelangi, Indonesia

Global Warming and Responses in the Agriculture and Forestry Sectors of Uruguay

Walter E. Baethgen International Fertilizer Development Corporation, Uruguay

Institutional Incentives for Carbon Sequestration in Malian Agriculture

Rebecca Montero Near East Foundation, United States

Sun-am-2 Rio +10: A Brazilian Perspective (Initiative of the International Geographic Union's (IGU) Task Force on Rio +10) Room: Salão E

Chair: Bertha Becker, Universidade Federal do Rio de Janeiro - Dep. de Geografia do IGEO, Brazil

Amazonian Frontiers at the Beginning of the XXI Century

Bertha K. Becker Universidade Federal do Rio de Janeiro - Dep. de Geografia do IGEO, Brazil

E La Nave Va

Marcel Bursztyn Brazil

Sustainable Development at Stake in the State of Acre

Philippe Lena Brazil

The Brazillian Environmental Priorities and the PNMA II

Roberto S. Bartholo Jr. Brazil

Sun-am-3 Linking Global Change and Local Realities: Distributed Research, Assessment, and Decision Making Systems Room: Salão Branco

Chair: David Cash, Harvard University

A Southeast Asia Regional Modeling Network to Address the Vulnerability of Water Resource and Extreme Events to Global Changes

Suparb Pasong Thailand

Integrating Climate Forecast Information in Agricultural Management: A Perspective from Southern Africa

Hector Chikoore Zimbabwe Meteorological Services PO BOX BE 150, Belvedere Harare, Zimbabwe

Coauthors: K. Day, S. Dube and Leonard Unganai

Linking global and local approaches to agricultural technology development: Plant breeding research in the CGIAR

Mauricio Bellon International Maize and Wheat Improvement Center (CIMMYT), Mexico

Coauthors: Michael Morris, Prabhu Pingali

Matching social and biogeophysical systems: challenges for designing information systems which link local through global knowledge, research, and assessment

David Cash Harvard University Kennedy School of Government, United States

Sun-am-4 Understanding Climate Change Impacts Room: Annex 363

Chair: Aston Chipanshi, Agriculture and Agri-Food Canada, PFRA

Climate Change and Vulnerable Regions

Mahendra Shah IIASA, Austria

Coauthors: G. Fischer, S. Prieler, H.T. van Velthuisen

Current status and future uses of the climate information in the agricultural system of central Argentina

Marta G. Vinocur Universidad Nacional de Río Cuarto Facultad de Agronomía y Veterinaria Agrometeorología, Argentina

Coauthors: Andrea del Valle Rivarola and Roberto A. Seiler

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Drought in Bulgaria: An Analog for Climate Change

C. Gregory Knight Center for Integrated Regional Assessment, Pennsylvania State University, United States

Coauthors: Marieta P. Staneva, Ivan Raev

Socio-Economic Analyses under Impacts of Extreme Climate Events : Case of Algeria.

Ahmed Adjez National Climate Center, Algeria

The CIRA Integrated Regional Assessment Model

Liem Tran Center for Integrated Regional Assessment, Pennsylvania State University, United States

Coauthors: C. Gregory Knight, Adam Rose, Zili Yang

Sun-am-5 Stakeholder Involvement in Cross-Scale Sustainability Issues Room: Salão C

Chair: Matthijs Hisschemöller, Institute for Environmental Studies, Netherlands

Climate Options for the Long term: results from a stakeholder dialogue on reducing GHG emissions in 2050 on a National, European and International level.

Willemijn Tuinstra Wageningen University, Environmental Systems Analysis Group, Netherlands

Coauthors: Bert Metz, Marcel Berk, Matthijs Hisschemöller, Willemijn Tuinstra, Marcel Kok
Greening Local Government? Decentralization and the Environment

Clark Gibson Department of Political Science University of California at San Diego, United States

Involving stakeholders in developing strategic visions: a review of the participatory processes used in the VISIONS project

Marjolein Asselt van Netherlands

Coauthors: Caroline van Bers, Sandra Greeuw, Jan Rotmans, Dale S. Rothman

Stakeholder participation as a process of policy oriented learning: Methodological experiences from the Dutch project Climate Options for the Long term

Marleen van de Kerkhof Institute for Environmental Studies, Vrije Universiteit Amsterdam, Netherlands

Coauthors: Matthijs Hisschemöller, Willemijn Tuinstra

Sun-am-6 Land-Use and Land-Cover Change in Asia Room: Annex 360

Chair: Ninh Ngyuen Huu, Center for Environment Research Education and Development, Vietnam

Assessment and Monitoring of Land Use/Land Cover Change in Southeast Asia

Chandra Giri CIESIN, Columbia University, United States

Coauthors: Surendra Shrestha, Marc Levy

Integrated Analysis of Land Use on Carbon Dynamics in East Asia

K. S. Rajan United States

Coauthors: Dennis Ojima, Louis Lebel

Land Use Dynamics and Institutional Interplay: Scenario in a Mountainous Country - Nepal

Sharad Adhikary Himalayan Climate Centre, Nepal

The Historical Reconstruction of Land Use Change and Its Driving Forces: A Case Study in Shandong Province in the Ming and Qing Dynasties (1368-1911)

Xueqin Zhang China

Coauthors: Ge Quansheng

Sun-am-7 Land-Use and Land-Cover Change in Amazonia (3) Room: Salão Nobre

Chair: Carlos Nobre

Analysis of Deforested Lands in The Napo Basin: Socioeconomic and Geophysical Factors, Spatial Patterns and Metrics.

Carlos Mena Florida International University, United States

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Human Dimensions Studies in the Large Scale Biosphere-Atmosphere Experiment in Amazonia (LBA)

Carlos A. Nobre Brazil

Integrating the Social and Natural Sciences in the Study of Land Use and Land Cover Change

Charles Wood University of Florida Center for Latin American Studies, United States

Coauthors: Roberto Porro

Rapid Metabolic Change in the Global South as a Chance and a Threat to Sustainability. The Case of Amazonia.

Marina Fischer-Kowalski IFF - Social Ecology, University of Vienna, Austria

Coauthors: Hercilio Castellano Bohorquez

Simulating Land Use and Land Cover Dynamics in the Ecuadorian Amazon through Cellular Automata Approaches and an Integrated GIS

Stephen J. Walsh Department of Geography, University of North Carolina, United States

Coauthors: Joseph Messina

Sun-am-8 Toward a Consistent Approach to Population-Development-Environment Analysis: The Series of IIASA PDE Case Studies Room: Salão G

Chair: Wolfgang Lutz, International Institute for Applied Systems Analysis, Austria

Economic development and other mediating forces between Population and Environment

Warren Sanderson Department of Economics State University of New York at Stony Brook, United States

Education and Human Capital in Population-Development-Environment Models

Annababette Wils Demographic Consultant, United States

How to structure our thinking about population-environment Interactions?

Wolfgang Lutz IIASA, Austria

The Mozambique Population-Development-Environment Case Study

Maimuna Ibraimo Ministry of Planning and Finance, Mozambique, Mozambique

12:45-14:45 Lunch

Working Lunch: “Next Steps in Linking the Global to the Local: Challenges for Research, Assessment and Decision making in a Multi-Level World.” Organizer: David Cash (Harvard University). Room: Salão Branco.

Reception: Hosted by the joint International Union for the Scientific Study of Population (IUSSP) and IHDP *Population-Environment Research Network*. Remarks by Wolfgang Lutz (Secretary General of IUSSP) and Jill Jaeger (Director of IHDP). Room: Salão G.

13:30-14:45 Roundtable: Inter-American Institute for Global Change Research (IAI) Science Programs and Funding Opportunities

Co-Chairs: Armando Rabuffetti (IAI Director) and Diana Liverman (IAI Scientific Advisory Committee)

Room: Salão Nobre

This roundtable will address the IAI’s science programs and a new funding opportunity for young scientists from Latin America in theme IV of the IAI Science Agenda, which covers human dimensions, integrated assessment and policy application activities.

2001 Open Meeting Program – Sunday, 7 October

14:45-15:45 Plenary: Trade, the State and the Environment

Chair: Hidefumi Imura
Speaker: Leslie Sklair
Commentator: K. Kato

The issue of Trade and the Environment was presented at a plenary session in the 1997 Open Meeting and raised considerable attention. The organizers felt that it would be important to include it as a plenary topic at the Rio meeting.

15:45-16:00 Coffee

16:00-17:45 Parallel Sessions

Sun-pm-1 Cross-National Comparisons of Values in Environmental Policy Making Room: Salão C

Chair: Joanne Bauer, Carnegie Council on Ethics and International Affairs
Discussant: Roger Kasperson, Stockholm Environment Institute

Toxic Oilfield Waste, Groundwater Depletion, and Endangered Species: Environmental Values, Science, and Policy in Three United States Regions

David Jenkins University of Arizona, United States

Values, Ecologies, and Time

Shiv Visvanathan Center for the Study of Developing Societies (CSDS), India

Coauthors: Chandrika Parmar

Sun-pm-2 The Future of the Climate Regime Room: Salão Nobre

Chair: Oran Young, Dartmouth College

Simulating the Performance of the Kyoto Mechanisms

Granville Sewell Massachusetts Institute of Technology, Institutional Dimensions of Global Environmental Change, United States

Coauthors: Yoshiki Yamagata

The Future of the Climate Regime in the Aftermath of the Bonn Agreement

Hermann Ott Wuppertal Institute for Climate, Environment and Energy, Germany

Trading Survival for Luxury: An Empirical Exploration of A Greenhouse Gas Allocation Rule.

Michel Gelobter United States

Coauthors: Niraj Kumar

Using National Communications Reviews To Improve Compliance Under The Kyoto Protocol

Kilaparti Ramakrishna Woods Hole Research Center, United States

Sun-pm-3 Integrated Assessment of Ocean and Coastal Resources Room: Annex 360

Chair: Syma Ebbin, IDGEC IPO, Dartmouth College, United States

Adverse Impacts of Free Market Reforms on Marine Living Resources: The Russian Far East Experience

Alexander P. Latkin Russia

Impact of Population Changes on Aquatic Food Consumption Patterns in PRC

Jiehua Lu Institute of Population Research, Peking University, Beijing, PRC, China

Coauthors: LI, Jianxin; Wang, Guangzhou

International Markets and Their Impacts on Marine and Aquatic Environment: Mexican Perspective

Roberto Enriquez Facultad de Ciencias Marinas, Universidad Autonoma de Baja California, Mexico

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Transboundary Marine Ecosystems and Marine Resource Problems in the North Pacific

Seong K. Park Pukyong National University, Faculty of Ocean Industry Policy,
South Korea

Sun-pm-4 Land-Use and Land-Cover Change in Africa

Room: Salão G

Chair: TBA

A model describing Community Rangelands in southern Africa (CoRiSA)

Deena Mobbs United Kingdom

Coauthors: Gery Lawson & Einir Young

An attempt to differentiate between climatically and direct human induced changes to the woody vegetation cover of Botswana

Aston Chipanshi Agriculture and Agri-Food Canada PFRA, Canada

Coauthors: Ringrose, S. and Matheson, W.

Socioeconomic and Environmental Factors Affecting Deforestation in Africa: Implications for Environmental Sustainability

Ben C. Arimah University of Botswana, Botswana

Sustainable Community Rangelands in Southern Africa: Is there a future?

Gareth Wyn Jones Centre for Arid Zone Studies University of Wales, Bangor, United Kingdom

Coauthors: Einir M. Young

Sun-pm-5 Vulnerability to Environmental Change in Latin America (2)

Room: Salão Branco

Chair: Tim Finan, University of Arizona

Adapting to Globalization and Climatic Risk in Central Mexico

Hallie Eakin Department of Geography University of Arizona, United States

Can Science Save Northeast Brazil? Seasonal Climate Forecasting and Drought Relief in Ceará, Brazil

Maria Carmen de Mello Lemos United States

Mexico, effectiveness of new water policy schemes for managing climate change and water scarcity

Patricia Romero Lankao Prof. at the Department of Politics and Culture, Mexican Autonomous University, Campus Xochimilco, Mexico

Planning for Drought: Methodologies to Reduce Climate Vulnerability

Timothy J. Finan United States

Coauthors: Donald R. Nelson

The global change and the vulnerability of the coastal zones in Cuba

Carlos Rodriguez Institute of Physical Planning, Cuba

Coauthors: Salas Garcia Isidro and Ada Luisa Perez-Hernandez

Sun-pm-6 Vulnerability to Seasonal Climate Variability

Room: Salão E

Chair: Shardul Agrawala, International Research Institute for Climate Prediction, LDEO, United

Economic Changes in Southern Africa: Are they facilitating or constraining the use of seasonal climate forecasts?

Siri Eriksen Centre Climatic Research Unit, University of East Anglia and the African Centre for Technology Studies, Nairobi

Coauthors: Robin Leichenko, Karen O'Brien

Global science, local problems: Seasonal climate forecast use in Basotho villages, southern Africa

Gina Ziervogel Environmental Change Institute, University of Oxford, United Kingdom

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Modelling livestock production systems in the arid and semi-arid zone of South Africa: evaluating management options that use climate forecasts

Philip Thornton International Livestock Research Institute, Kenya

Coauthors: K. A. Galvin, R. H. Fawcett

Responding to Global Change: Vulnerability and Management of Local Agro-ecosystems in Kenya and Tanzania

Siri Eriksen Climatic Research Unit, University of East Anglia, United Kingdom

The Costs and Benefits of Enhancing Credibility and Salience: Lessons from Climate Forecasting in Africa

Anthony Patt Boston University, United States

Sun-pm-7 Sustainable Development in Practice

Room: Salão A

Chair: Sylvia Karlsson, IHDP, Germany

Climate change and strategies to be adapted in Agriculture for sustainable development in Vietnam.

Van Viet Nguyen Agrometeorological Research Centre, Institute of Meteorology and Hydrology, Vietnam

Coauthors: Nguyen Van Liem and Ngo Tien Giang

Environmental Sustainability of Water Projects in Mexico

Cecilia Tortajada Mexico

Fostering local sustainable development through renewable energy: recent approaches from international law and international organisations

Norbert Wohlgemuth Austria

Coauthors: Fanny Missfeldt

Local organisation in extractive reserve development and conservation: the dynamics of associations of rubber tappers in Rondônia, Brazil

Sergio Rosendo University of East Anglia, United Kingdom

The quest for sustainable development in a local context: the case study of Jurumirim Hydrographic Basin, Angra dos Reis County, Rio de Janeiro State, Brazil.

Cacilda Carvalho Fluminense Federal University, Brazil

Coauthors: Denise Kronemberger, Laura de Oliveira, Regilene de Souza

18:30-22:30 Dinner and Samba

Buses will leave from in front of the Hotel Gloria at 18:30, and will return from the Porcão Restaurant to Open Meeting hotels at 22:30. Buses will be available should some wish to return earlier.

Program – Monday, 8 October

Updates to this program will be posted daily on the bulletin board in the Salão D.

9:00-10:00 Plenary: Poverty and the Environment

Chair: Mahendra Shah
Speaker: Akin Mabogunge
Commentator: Roberto Sanchez

This is a topic that has not previously been addressed in Open Meetings, but for the first meeting in a developing country, it is important. Recent large comparative studies have shown, for example, that poverty is not one of the key driving factors of tropical deforestation. To what extent is poverty a driving factor of other global environmental changes?

10:00-10:15 Coffee

10:15-12:00 Parallel Sessions

Mon-am-1 Consumption and Environmental Change

Room: Salão A

Chair: Ken Green, Manchester School of Management, United Kingdom

Altering the Balance between Livestock Populations, Mobility and Winter Feed Supplementation: Ecosystem Conservation and Pastoral Welfare in the Cold Rangelands of Central Asia

Carol Kerven Macaulay Land Use Research Institute, United Kingdom

Economic Policies and Implications for Changing Patterns of Domestic Energy Consumption in Ibadan, Nigeria

Ibidun Adelekan Nigeria

Coauthors: A.T. Jerome

Illuminating dependence on appropriated ecosystems: Swedish agriculture, industrial intensification and trade 1962-1994

Lisa Deutsch Dept of Systems Ecology Natural Resources Management Stockholm University, Sweden

Coauthors: Carl Folke

Valuing non-timber forest products - indicator for interplay between poverty, livelihoods and the environment

Delali B.K. Dovie School of Animal, Plant & Environmental Sciences University of the Witwatersrand, South Africa

Coauthors: Ed T. F. Witkowski and Charlie M. Shackleton

Mon-am-2 National Responses to Climate Change

Room: Salão E

Chair: Steinar Andresen, Fridtjof Nansen Institute, Norway

Climate Change and Sustainable Development Strategies: a Brazilian Perspective

Emilio La Rovere Federal University of Rio de Janeiro Energy Planning Program Head, Environmental Sciences Laboratory, Brazil

Energy dimension of climate change policy in the economy in transition - the case of Poland.

Mirosław Sobolewski Parliamentary Bureau of Research, Poland

International Climate Politics: European Union, USA, Russia. A Comparative Analysis.

Dmitri Efremenko International Institute for Global Problems of Sustainable Development, International Independent University for Environmental & Political Studies, Russia

The consideration of greenhouse gas emission targets in transport and land use policies, plans, programmes and projects

Thomas B Fischer Germany

2001 Open Meeting Program – Monday, 8 October

The human dimension, key issue to implement the UNFCCC in Bolivia

Javier Gonzales Universidad Nur Bolivia , Bolivia

Coauthors: Verónica López

Mon-am-3 Strategies for Improving Environmental Governance (2) Room: Annex 360

Chair: Detlef Sprinz, Potsdam Institute for Climate Impact Research, Germany

A World Environment Organisation: What on Earth for? Co-operation Theory and the Debate on the Institutional Re-organisation of International Environmental Governance

Thomas Gehring University of Bamberg, Faculty of Social and Economic Sciences, Germany

Future Research on the Effectiveness of International Environmental Regimes

Detlef F. Sprinz Potsdam Institute for Climate Impact Research, Germany

Making International Environmental Governance Work: The Case for a Global Environmental Organization

Maria Ivanova Yale University School of Forestry and Environmental Studies, United States

Coauthors: Daniel C. Esty

The Need for a Global Environmental Authority for Environmental Governance: A Look Ahead

Bharat H. Desai Jawaharlal Nehru University School of International Studies

International Legal Studies Division/ CSDIL&E, India

The North/South Knowledge Divide-Consequences for Multilayered Environmental Governance

Sylvia Karlsson IHDP, Germany

Mon-am-4 Environment and Health Room: Annex 363

Chair: Veronica Mera-Orces, Cassava Biotechnology Network, Ecuador

Co-benefits of climate policy -lessons learned from a study in Shanxi, China

Kristin Aunan CICERO Center for International Climate and Environmental Research, Oslo, Norway

Coauthors: Jinghua Fang, Haakon Vennemo, Kenneth Oye, and Hans M. Seip

Environmental Degradation and Health Hazards in Medium Sized Towns in India: Research Methods for Studying the Interdependency between Urban Growth and Health Risks.

Dr. Thomas Krafft Germany

Coauthors: Anne Kremer, Andrea Rothweiler

Population vulnerability and broad environmental climatic exposure

Pedro Reginaldo Prata Instituto de Saude Coletiva, Universidade Federal da Bahia, Brazil, Brazil

Regional research on mitigation of global environmental change syndromes in West Africa and Chad. Links between health and in-creasing density of syndromes in urban and peri-urban areas.

Gueladio Cissé Cote D'Ivoire

Coauthors: Olivier Girardin, and Marcel Tanner

Some considerations about the ENSO 97-98 impact in the Climate and in the Public Health in the Villa Clara Province(Cuba).

Ricardo Osés Rodríguez Cuba

Coauthors: Guillermo Saura

Mon-am-5 Modeling and Analysis of Land-Use and Land-Cover Change Room: Salão Nobre

Chair: Mahendra Shah, International Institute for Applied Systems Analysis, Austria

AGENT-LUC: A Dynamic National Scale Model to study the Human-Land Interactions

K S Rajan LUCC Focus 2 Office, Institute of Industrial Science, University of Tokyo, Japan

Coauthors: Ryosuke Shibasaki

2001 Open Meeting Program – Monday, 8 October

Characterizing Vulnerability through a Panel Approach to Landuse/Landcover Change

Kelley Crews-Meyer University of Texas, Dept. of Geography, United States

Do humans create deserts? An integrated assessment of the multiple dimensions of desertification

James Reynolds Duke University, Department of Biology and School of Environment,
United States

Coauthors: Mark Stafford Smith, Pamela Chasek

Integrated modelling of land use change at multiple scales with the CLUE modelling framework

Peter Verburg Department of Environmental Sciences, Wageningen University,
Netherlands Faculty of Geography, Utrecht University, Netherlands,
Netherlands

Coauthors: Tom Veldkamp

Mon-am-6 Poverty and the Environment

Room: Salão C

Chair: Okey Ibeanu, University of Nigeria

Environmental and socio-economic dynamics of smallholder agriculture: a systematic integration of case studies resulting in a formal qualitative model as a basis for policy assessment

Matthias K. B. Luedeke Potsdam Institute for Climate Impact Research, Germany

Coauthors: Gerhard Petschel-Held

Mainstreaming Environment in Poverty Alleviating Community Based Micro Projects

Jacob Chishiba CB Environment and Development, Lusaka, Zambia

Poverty and Threatened Coastal Resources : A Socioeconomic Problem

Santoshkumar Sarkar Department of Marine Science, University of Calcutta, India

The Impact of Poverty on Farming System Choice: A Case Study from Vietnam

Leslie Lipper Food and Agriculture Organization of the UN, Italy

Coauthors: Benjamin Davis

Mon-am-7 Putting the local in Global Environmental Change

Room: Salão G

Chair: Alex Farrell, Dept. of Engineering & Public Policy, Carnegie Mellon University, United States

Coastal zone protection, climate change and socioeconomic dynamics: what humans value

Volker Linneweber Institute of Psychology, Germany

Design Elements of Environmental Assessment Processes

Alex Farrell United States

Making the Health Impacts of Climate Change Local Again?

Alastair Iles Energy and Resources Group, University of California at Berkeley,
United States

Scientists as Knowledge and Institution Brokers: The Case of Bioprospecting Agreements

Astrid Scholz United States

Mon-am-8 Industrial Transformation and Sustainable Development

Room: Salão Branco

Chair: Pier Vellinga, IHDP Industrial Transformation, Netherlands

Fossil Fuels without CO2

David Keith University of British Columbia University Fellow, Resources for the
Future Adjunct Professor, Carnegie Mellon University, United States

Coauthors: Hadi Dowlatabadi

MIPS of the Italian Mobile Telephone Network

Antonio Federico ENEA CR Casaccia, Italy

Coauthors: Fabio Musmeci, Daniela Proietti Mancini

The Policy Environment For The Development Of EST in China

Chi Ma National Research Centre for Science and Technology for
Development (NRCSTD), the Ministry of Science and Technology
(MOST), China

2001 Open Meeting Program – Monday, 8 October

The sustainability of international bio-energy trade - Potential, options, criteria and implementation of large scale international trade of biomass for energy applications.

Andre Faaij

Netherlands

12:00-14:00 Lunch

Lunch-time small group discussions will be organized around a variety of human dimensions research themes.

14:00-15:00 Plenary: Vulnerability

Chair: Marc Levy

Speaker: Coleen Vogel

Commentator: Ligia Noronha

The topic of vulnerability has received increasing attention in the human dimensions research community in recent years. It provides a valuable conceptual framework for studying human-environment interactions. It also constitutes an essential element of assessments of the impact of global environmental change on humans and ecosystems.

15:00-15:15 Coffee

15:15-17:00 Parallel Sessions

Mon-pm-1 Lessons and Challenges of Climate Forecast Applications

Room: Salão A

Chair: J. Michael Hall, NOAA Office of Global Programs

1997-99 El Nino / La Nina Episode in Sri Lanka: Forecasts, Communication, Responses and Impacts in Sri Lanka, an Indebted and Peripheral Country.

Lareef Zubair

IRI-International Research Institute for Climate Prediction,
Lamont-Doherty Earth Observatory of Columbia University, United

Agricultural Systems, Climate and the Human Dimension

Holger Meinke

Department of Primary Industries - APSRU, Australia

Coauthors: M. Aslam, G.S. Gadgil, J. Hansen, K. Krishna Kumar and R. Selvaraju

Coping with Climate: the Potential of Seasonal Climate Prediction

Reid Basher

IRI-International Research Institute for Climate Prediction
Lamont-Doherty Earth Observatory of Columbia University, United

Lessons Learned from the 1997-98 El Nino: Once Burned, Twice Shy?

Michael Glantz

National Center for Atmospheric Research UCAR/ESIG, United
States

Mon-pm-2 Multisectoral Approaches to Environmental Governance

Room: Annex 360

Chair: Okechukwu Ibeanu, Dept. of Political Science, University of Nigeria, Nigeria

Discussant: Frank Alcock, Harvard University

Democracy, Environment and Security in Nigeria: Reflections on environment and governance in the post military era

Okechukwu Ibeanu

Department of Political Science, University of Nigeria, Nigeria

Ecological imperatives and institutional response: Enhanced fit through vertical interplay in the Pacific Northwest salmon management regime

Syma Ebbin

IDGEC IPO, Dartmouth College, United States

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Impacts of Changes in Policy and Market Conditions on Land Use, Land Management and Livelihood among Upland Farmers in Central Highlands of Vietnam

Maria Victoria O. Espaldon Philippines

Coauthors: Dang Thanh Ha, Pham Hong Duc Phuoc, Hoang Huu Cai, Pham Trinh Hung

Paying Progress with Health: Pesticide Use and Potato Production Practices in the Ecuadorian Highlands

Veronica Mera-Orces Ecuador

Mon-pm-3 Environment and Human Security

Room: Salão E

Chair: Mike Brklacich, Carleton University, Canada

Energy Supply-Chain, The Human Dimension of Energy Poverty and The Effects on Urban Sustainability: A Case Study of Nigeria

Obas John Ebohon United Kingdom

Coauthors: Professor Brian Field and Professor Cedric Pugh

Environmental and Welfare Challenges of Energy Sector Transformation in Nigeria

Gbadebo Oladosu School of Environmental Science, Engineering and Policy Drexel University, United States

Environmental Change and Vulnerability in the Philippines

Juan Pulhin Univeristy of the Philippines Los Baños, Philippines

Environmental Security in Russia: Crisis of Protective Instruments during Transition Period

Elena Nikitina Department of Geography, University of Arizona, United States

Coauthors: Vladimir Kotov

Migration, Resilience and Global Change in the Coastal Zone - Policy Implications for Communal Trends

Ninh Nguyen Huu Centre For Environment Research Education & Development, Vietnam

Coauthors: Luong Quang Huy, Mick Kelly

Mon-pm-4 Land-Use and Land-Cover Change in Latin America

Room: Salão C

Chair: Edwin Castellanos, Universidad del Valle de Guatemala

Conservation in the Southern Yucatán Peninsular Region Mexico: Linking Land Use Patterns and Social Institutions

Rinku Roy Chowdhury Eco-Institute Institute for Applied Ecology, United States

Population, Land Use, and Deforestation in The Sierra de Lacandón National Park, Petén, Guatemala

David Carr University of North Carolina Chapel Hill Department of Geography and Carolina Population Center, United States

The Dynamics of Deforestation: Evidence from Costa Rica

Alex Pfaff School of International & Public Affairs, Columbia University, United States

Coauthors: Suzi Kerr, Arturo Sanchez, William Power

Mon-pm-5 Population-Environment Studies: Space and Time Dimensions

Room: Salão G

Chair: Wolfgang Lutz, International Institute for Applied Systems Analysis, Austria

Aging, Changes in Household Characteristics, and Energy Use

Brian C. O'Neill Brown University, United States

Coauthors: Alexia Prskawetz, Jiang Leiwen

Ecological Democracy and Sustainable Development

Thomas Dietz Environmental Science and Policy, George Mason University, United States

Coauthors: Eugene Rosa, Richard York

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Structure and Scale Identification in Population-Environment Models

Deirdre M. Mageean Margaret Chase Smith Center for Public Policy, University of Maine,
United States

Coauthors: John G. Bartlett, Raymond J. O'Connor

Mon-pm-6 From Global Change towards Sustainability Science Room: Salão Nobre

Chair: Eckhart Ehlers, German National Committee on Global Change Research

Assessing Vulnerability in Human-Environment Interactions

Roger E. Kasperson Stockholm Environment Institute, Sweden

Coauthors: Roger E. Kasperson, Jeanne X. Kasperson, Pamela Matson, B.L. Turner II, Wen Hsieh

Measuring Environmental Sustainability

Marc Levy United States

Research Systems for Sustainability Science

William Clark United States

Coauthors: William Clark, Jill Jaeger, David Cash, Nancy Dickson, and Frank Alcock

Trends and the Sustainability Transition

Thomas M. Parris ISCIENCES, LLC, United States

Coauthors: Robert W. Kates

Mon-pm-7 Vulnerability to Climate Change Room: Salão Branco

Chair: Diana Liverman, Center for Latin American Studies, University of Arizona, United States

Global environmental change and vulnerability of ecosystems: from local to regional and global scales

Mecislovas Zalakevicius Institute of Ecology, Lithuanian Academy of Sciences, Lithuania

The Impacts of Climate Variability and Change on an Urban Watershed Region: Implications for Institution Vulnerability and Adaptation

William Solecki Montclair State University, United States

The Potential of Long-Lead Climate Forecasts to Reduce Local Vulnerability to Variations in Interseasonal Climate

Kirstin Dow Dept. of Geography University of South Carolina, United States

Coauthors: Susan L. Cutter, Gregory J. Carbone, Brent Yarnal, Robert E. O'Connor, and Richard J.

The Vulnerability of Global Cities to Climate Hazards

Andrew Schiller United States

Coauthors: Alex de Sherbinin, Wen-Hua Hsieh and Alex Pulsipher

Towards a Theory-Based Vulnerability Index on the Global Scale

Dörthe Krömker Scientific Center for Environmental Systems Research, University of
Kassel, Germany

Coauthors: Petra Döll

17:00-18:00 Closing Session

Chair: Mauricio Tomalsquim

Participants: Eckart Ehlers (IHDP Steering Committee), Roberta Balstad Miller (Director, CIESIN), and Diana Liverman (IAI Scientific Advisory Committee)

Room: Salão Nobre

18:00-20:00 Farewell Party

Room: TBA

General Information

Open Meeting Hotels

Hotel Gloria, Rua do Russel 632, Gloria, Rio de Janeiro
Tel: (+55-21) 2555-7272
Fax: (+55-21) 2555-7282

Hotel Guanabara, Ave Presidente Vargas 392, Rio de Janeiro
Tel: (5521) 2518 0333
Fax: (5521) 2516 1582

Blumar Travel will have a desk in Salão D for those needing assistance with hotel arrangements.

What Your Registration Fee Covers

The following items are covered by your registration: access to all Open Meeting panels and plenary sessions, buffet lunches on all three days, admittance to the Welcoming Party on Saturday, transportation and admittance to the Dinner and Samba on Sunday evening, and admittance to the Farewell Party on Monday at 18:00. Individuals are responsible for their own breakfasts and for dinners on Saturday and Monday evening.



Guidelines on the Conduct of Panels

Paper presentations should be no longer than 20 minutes. Overhead projectors and computer projectors will be available in the rooms. Two slide projectors will be available in the Open Meeting Secretariat Room for loan. If you require a slide projector for your talk, you are requested to obtain it in advance of your session and to return it as soon as the session is completed so that it will be available for others to use.

Note that computers will *not* be provided in the rooms, so if you wish to display your presentation on the computer projector please make arrangements to bring or borrow a laptop computer. Paper presenters are advised arrive for their session early so that they can test their presentation on the laptop *before* the session starts. Nothing can be done to correct technical difficulties once the session is underway. Panel chairs will have discretion as to allocating time for questions and answers after the paper presentations are completed.

Personal Safety

The following is quoted from: Selby, N., A. Draffen, R. Jones, C. McAsey, and L. Pinheiro (1998), *The Lonely Planet Guide to Brazil*.

Dangers and Annoyances

Rio receives a lot of bad international press about its violence, high crime rate, and *balas perdidas* (stray bullets) – but don't let this stop you from coming. Travelers to Rio have as much chance of getting mugged as in any big city, so the same precautions apply here. By following a few common-sense precautions, you're unlikely to suffer anything more than sunburn.

On the Street

Dress down and leave your watch and any other jeweler in the hotel room (if you consider it reliable). There are large digital clocks all over Rio if you must know the time – or buy a cheap watch. Leave all important documents, like passport (carry a photocopy) and travelers cheques, at the hotel. Get used to keeping small change and a few banknotes in a shirt pocket so that you can pay bus tickets

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and small expenses without extracting large wads, which attract attention. Better still; carry only cash you think you'll need. If you do take your wallet, keep it in your front pocket. At night, don't walk into any alleys, narrow streets, and underpasses or wherever there are trees and bushes that may be used as hiding places. Leaving discos or clubs late at night, get a taxi from the door. Sightseeing in the center of town is safer during the week, because it's crowded. On weekends you stand out much more.

Camera

If you have a camera with you, keep it out of sight as much as possible. We sometimes carried a camera in a sturdy plastic bag from a local supermarket, or a smaller one in a front pouch. Disposable cameras are widely available in photo shops in Rio – a wise investment.

Buses

If you ride the local buses (which are great fun) have your change ready before boarding. Avoid the super-crowded ones. If you talk out loud, it's easier for thieves to identify you. The air-conditioned buses are more expensive, but more secure. Take one from the airport to save a few dollars. If you have valuables (like your backpack with everything in it), take taxis rather than buses.

Beaches

The heavy police presence on Copacabana and Ipanema mean the beaches are quite safe – but don't go to sleep. Take only the money you need for snacks and drinks. The favorite beach scam (apart from the fast snatch and grab) is where the thieves wait for you to be alone on the beach guarding you and your friend's gear (because you decided to take turns to go in the water). One thief approaches from one side and asks for a light or the time. While you're distracted, the thief's partner grabs your gear from the other side.

Hotels

If you consider your hotel to be reliable (as a rough guide in Rio probably any place with three stars or more), place valuables in its safe and get a receipt.

Count money and travelers cheques before and after retrieving them from the safe – this should quickly identify any attempts to extract single bills or cheques.

Don't leave your valuables strewn around the room. It's too much of a temptation to cleaners and other hotel staff.

Credit Cards

Keep your credit card in sight at all times. Don't give it to waiters and let them take it away. Don't keep it in the hotel safe. Rio is one of the capitals of credit card scams.

Transfer to Other Hotels on 8 October

Bus transportation will be provided to all those needing to transfer to other area hotels at the end of the day on Monday, 8 October. Announcements will be made in the closing plenary session concerning the bus times and locations. Also look for notices on the program bulletin board.

Returning to the Airport (GIG)

A sign-up sheet will be available in the Open Meeting Secretariat room (one floor below Salão Panorâmico) for those wishing a shuttle to the airport after the meeting. You will be asked to indicate your hotel and the departure time of your flight.

Restaurants

Information on area restaurants is available from the Blumar Travel Desk in Salão D.

Post-Conference Meetings

Tuesday, 9 October

IHDP National Human Dimensions Committees Consultation Session

Time: 9:00-17:00, Dinner Afterwards

Location: Brazilian Academy of Sciences, Rua Anfilóbio de Carvalho 29, 3rd Floor, Centro - Rio de Janeiro

Description: The objectives of the meeting are to inform about ongoing activities in the IHDP National Committees and to discuss the collaboration between the National Committees themselves, and the National Committees and IHDP.

Metadata Training Class

Time: 8:30-17:00

Location: Guanabara Hotel

Description: CIESIN is conducting a workshop on the preparation of geospatial metadata to support research and applications on the human dimensions of global environmental change. The training focuses on the Content Standard for Digital Geospatial Metadata. An overview of international metadata standards, clearinghouse nodes and gateways will also be given. Support for this course is provided by the U.S. Federal Geographic Data Committee (FGDC) Cooperative Agreement Program. *Although all slots for the training class have been filled as this program goes to print, there could be last minute cancellations. Contact CIESIN staff member Greg Yetman at the Hotel Glória for details.*

Wednesday, 10 October

IHDP Steering Committee: Project Leaders and Officers Meeting

Time: 9:00-17:00

Location: Guanabara Hotel

Description: Members of the IHDP Secretariat will meet with the IHDP Officers and Projects Leaders to discuss developments within the projects, upcoming initiatives and programmatic issues.

Metadata Training Class

Time: 9:00-17:00

Location: Guanabara Hotel

Description: See above.

Thursday, 11 October

IHDP Steering Committee: Project Leaders and Officers Meeting

Time: 9:00-15:00

Location: Guanabara Hotel

Description: See above.

Open Meeting Proceedings

All paper and poster presenters are encouraged to submit their full text papers and posters for inclusion on the Open Meeting CD-ROM and web site. The CD-ROM will be mailed to all participants in early 2002. Papers and posters should be submitted via a web form at the Open Meeting web site – <http://sedac.ciesin.columbia.edu/openmeeting> – by 15 November 2001. This is the primary means by which research results presented at the Open Meeting are disseminated.

When you submit your paper through the Open Meeting web site you will be asked to explicitly grant permission to CIESIN and the Brazilian Academy of Sciences to distribute your paper through the Web and via CD-ROM. If you are unable to grant such permission for any reason, please do not submit your paper.

There is a file size limit of two megabytes for papers and posters. If you have graphics or other material that cannot be reduced below two megabytes, we suggest that you create a “streamlined” version for official distribution that falls within the two megabyte limit and post a more complete version on a different web site, and then provide a link to that web site on your paper. For documents that use many or large images, the document's total file size can be reduced dramatically by compressing and/or reducing image resolution.

Guidelines for papers: There is no page or word limit on the papers. Papers should be formatted for U.S. letter size or A4 paper, and in either Microsoft Word (save as version Windows 97), Corel WordPerfect (version 8 or earlier), or Adobe PDF format. Your paper should include the following information on the title page and/or immediately under the title/author information: “Prepared for presentation at the Open Meeting of the Global Environmental Change Research Community, Rio de Janeiro, 6-8 October, 2001.”

Guidelines for posters: Posters can only be accommodated if they are still legible when printed on U.S. letter or A4 size paper. Please save the paper in one of those two dimensions, in either PowerPoint, Word, WordPerfect or PDF format, before submitting via the web form.

Tourism

Blumar Travel will have a desk in Salão D for those wishing to register for tours. Blumar is also able to assist with your post-conference travel planning needs. Featured tours include:

Tropical Islands

After an hour-and-a-half trip to the fisherman village of Itacuruça, participants will cruise on the crystal clear waters of the Sepetiba Bay on a well-equipped schooner. During the trip, stops are made for swimming and diving. Upon arrival on one of the islands a tropical buffet lunch will be served. After lunch, free time for leisure.

Departure Days: Every day
Duration: 9 hours (lunch included)
Price per person: R\$ 85,00

Petrópolis

The former Imperial City, located in the Orgãos Mountains, is only one hour from Rio de Janeiro. Visits are organized to the Imperial Museum, the former summer residence of the imperial family during the 19th century. Participants will also visit a fabulous collection of art objects and jewelry, including the famous Imperial Crown, the Crystal Palace, and the São Pedro de Alcantara Neo Gothic Cathedral.

Departure Days: Tuesday, Thursday, and Saturday
Duration: 6 hours
Price per person: R\$ 45,00

Jeep Tour in the Tijuca Forest

This tour in the Tijuca Forest shows the contrasts between the big city and the forest. It includes a drive through the forest and stop at the Chinese View (a lookout point), Emperor's Table, Taunay waterfall and Mayrink Chapel. Participants will also take a short walk on a trail in the heart of the forest, giving them a chance to be in contact with nature. Expert guides will explain everything about the Atlantic Forest.

Departure Days: Every day
Duration: 4 hours
Price per person: R\$ 70,00

Corcovado

In the traditional district of Cosme Velho, this tour will take a train to the top of Corcovado Mountain. Considered by many the highlight of Rio, the one-hundred and twenty foot statue of Christ stands on the top of Corcovado Mountain and overlooks a wonderful view of Rio de Janeiro.

Departure Days: Every day
Duration: 4 hours
Price per person: R\$ 52,00

Favela Tours

This tour is an illuminating experience if you are looking for an insider view of Brazil. It introduces you to another Rio, a city within the city: the favela. Participants will go to the favelas of Vila Canoas and Rocinha, the largest in Brazil. Visits are organized to a local school, a handicraft center (also supported by the tour) and other community works. Informative, this tour changes the reputation of favelas, often associated with violence and poverty only. If you really want to understand Rio and Brazil, don't leave the city without going on this tour!

Hippie Fair

Visit to hippie fair where you can find Brazilian handicrafts products.

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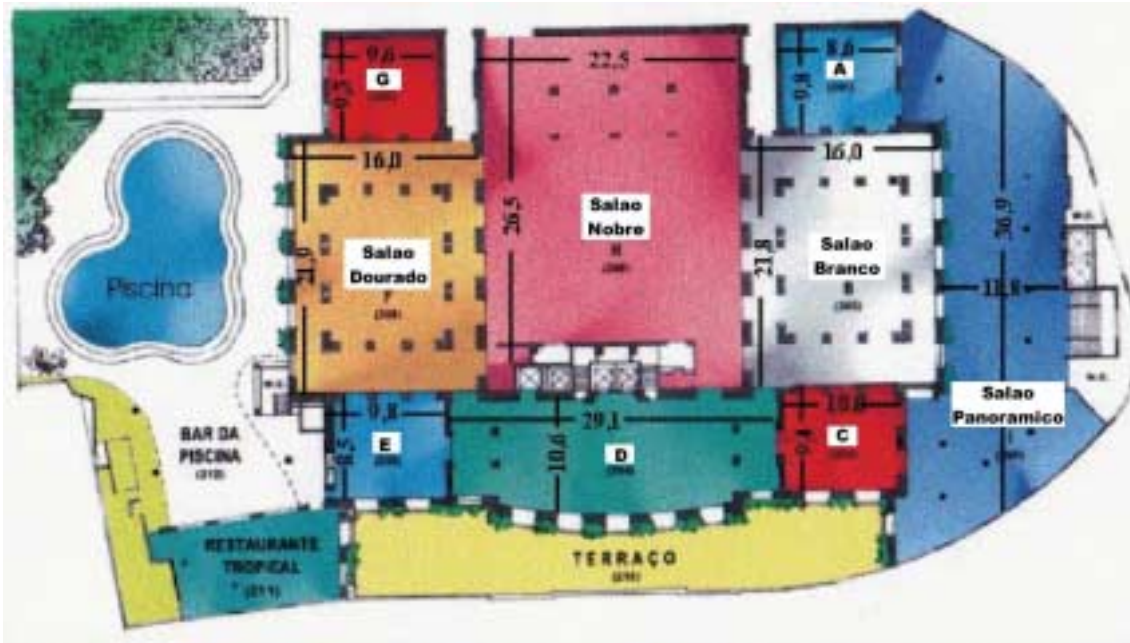
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Welp, Martin	Poster Session II
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Wohlgemuth, Norbert	Sun-pm-7
Wood, Charles	Sun-am-7
Wyn Jones, Gareth	Sun-pm-4
Young, Oran	Sun-am-1, Sun-pm-2
Zalakevicius, Mécislovas	Mon-pm-7
Zhang, Xueqin	Sun-am-6
Zhao, Jimin	Sat-am-4
Ziervogel, Gina	Sun-pm-6
Zubair, Lareef	Mon-pm-1

Floor Plan of Meeting Rooms

Hotel Gloria Second Floor Map



Room Assignments

Registration and Open Meeting Office: Secretariat Room (one floor below Salão Panorâmico)

Plenaries: Salão Nobre

Panel Sessions: Salões A, C, E, G, Branco, Nobre, and Annex Rooms 360 & 363

Poster Sessions & Coffee: Salão Panorâmico

Exhibits & Displays: Salão Panorâmico

Lunches: Salão Dourado and the Restaurante Gritta

Internet: Salão D

Blumar Travel: Salão D

Hotel Gloria Annex Map



Notes

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Association of American Geographers (AAG)*

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