



The XVth International Conference of the Society for Human Ecology

October 4-7, 2007, Rio de Janeiro

Local Populations and Diversity in a Changing World

Periodical Support

Environment, Development and Sustainability (<http://www.springerlink.com/content/102874/>)

Session Diversity and Management: From Extractive to Farming Systems

Orgs: Hens and Begossi

Rev. Museu Paraense Emilio Goeldi (http://scielo.iec.pa.gov.br/scielo.php?script=sci_serial&pid=1807-5398&lng=pt&nrm=iso)

Session Shifting Cultivation and Tropical Forests in a Changing World

Orgs: Adams and Murrieta

Regional Environmental Change (<http://www.springerlink.com/content/103880/>)

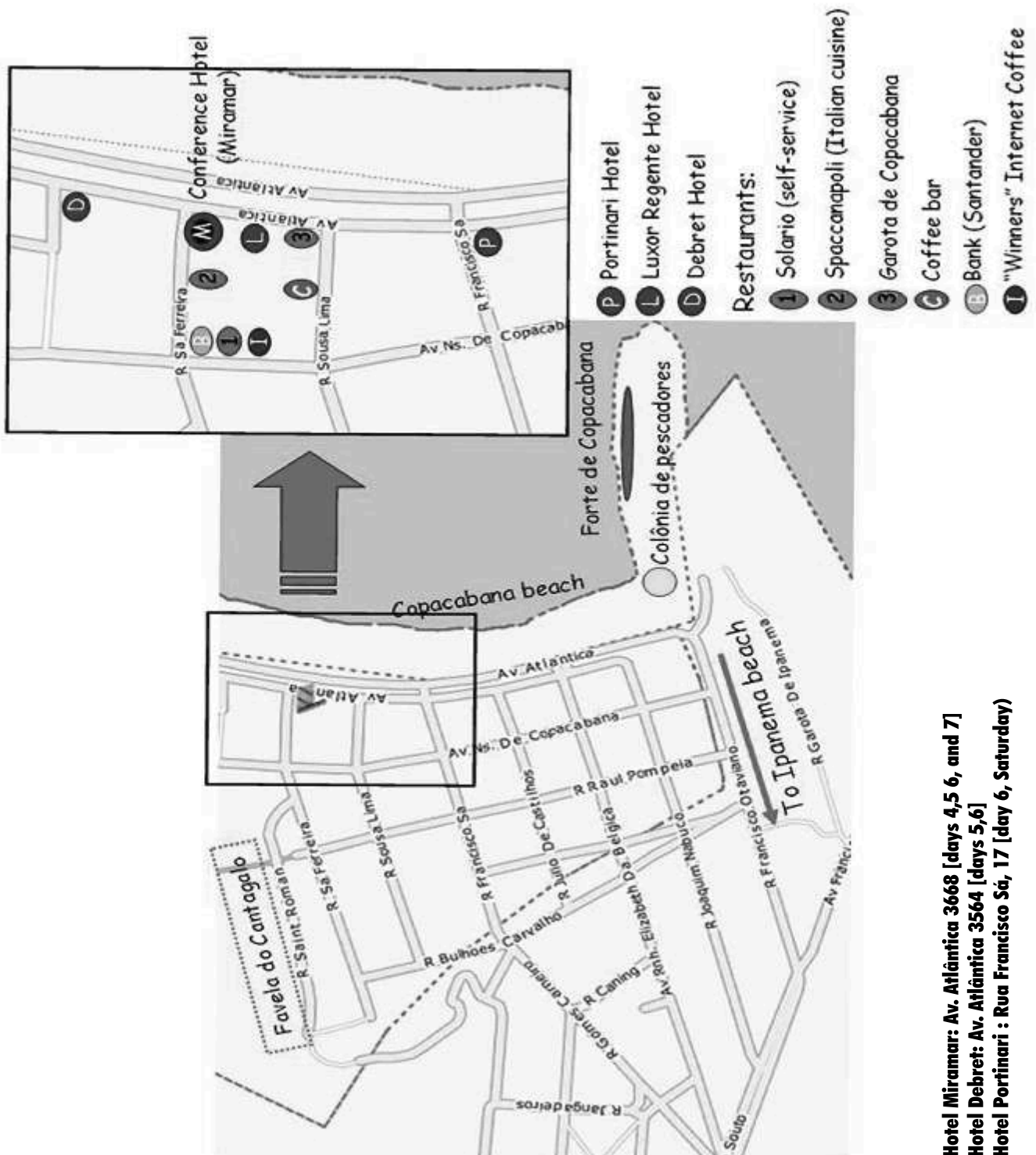
2nd LOICZ Symposium on Social Ecological Analysis

Orgs: Glaeser, Glaser, Orbach, Mee

Sustainability: Science, Practice, & Policy (SSPP) (<http://ejournal.nbii.org>)

Human Ecology Review [SHE] www.societuforhumanecology.org

Location



Hotel Miramar: Av. Atlântica 3668 [days 4,5 6, and 7]

Hotel Debreit: Av. Atlântica 3564 [days 5,6]

Hotel Portinari : Rua Francisco Sá, 17 [day 6, Saturday]

Dear Participants,

Welcome to the XVth International Conference of the Society for Human Ecology. Welcome to Rio. The Conference theme Local Populations and Diversity in a Changing World reflects our changing world and demands, along with diversity that is the core of our life.

The Society for Human Ecology, since its creation in 1981 has held 14 conferences and has maintained in its meetings a diversity of themes in Human Ecology that reveals how science is dynamic and builds upon diversity: of thought, of knowledge, of culture, of environments.

This Conference was made up through the input of participants, ending up in 30 themes:

Adaptive Co-Management: Building Resilience in Local Management Systems
Advances in Ethnoecology and Ethnobotany
Agroecology and Sustainable Rural Development
At-Distance Education in Human Ecology: Opportunities and Challenges
Behavior and Ecology: Psychology Looks at Mind and Nature
Climate and Culture
Co-managing Common-Pool Resources: Challenges and Advances
Community-Based Faunal Management
Contributions of Fishers' Local Ecological Knowledge and Scientific Research to Marine Mammals' Conservation
Contributions of Human Ecology to Understand and to Manage Artisanal Fisheries
Culture Nurturing Nature: A Chance for (Environmental) Change
Diversity and Management: from Extractive to Farming systems
Environment and Agriculture
Environmental Degradation
Environmental Pollution and Cultural Pollution
Environmentally Significant Consumption (ESC): Emphasis on Food
Folk and Indigenous Transformations in the Amazon region: Implications of Contact, Land-Use Schemes and Market Economies
Geographic Information Systems and Remote Sensing in Studies of Population and Environment
Human Ecology and Health
Integrated Analysis of Local Socioecological Systems: Combining Agent-Based and Stock-Flow Modeling Approaches
Local Knowledge (LEK/FEK) and the History of Aquatic Ecosystems
New Directions in Human Ecology - Higher Education for Sustainable Development
Searching the Real Values of the Sea: the ECOST Perspective
Shifting Cultivation and Tropical Forests in a Changing World
Social-Ecological Systems Analysis: Understanding Complex Social-Ecological Dynamics: Integrating different geographical scales in coastal systems
Sustainability and the Impact of Aid on Indigenous People
Temporal and Spatial Cross-Scale Approaches in Human Ecology: Implications for Resource Use from Cultural Evolution and Behavioral Ecology
The role of Indigenous knowledge in the Adaptive Process
Traditional People, Biodiversity and Cultural Diversity
Using and Perceiving a Changing Environment

Hope you travel nicely through the diversity of themes, having a fruitful and nice meeting!



Alpina Begossi, President of the Society for Human Ecology
October 4, 2007

Organizers

Conference Chair: Alpina Begossi
President of the Society for Human Ecology

Local Coordination: Priscila MacCord

With additional SHE support from Richard Borden (Executive Director), Barbara Carter (Executive Assistant) and Sean Berg (Network Coordinator)

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We are also grateful to the Chairs of the Paper Sessions: their positive feedback and contribution were essential for the development of the program of the conference:

Álvaro D'Antona, Indiana University (USA) and University of Campinas [Brazil]
Antonio Carlos Diegues, Universidade de São Paulo, Brazil
Bernhard Glaeser, Integrated Coastal Zone Management, WZB, Germany
Cristina Adams, Universidade de São Paulo, Brazil
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R. Matthews, IFF & Macaulay I., Austria and United Kingdom
Rebecca S. Purdom, Green Mountain College, USA
Renzo Taddei, Columbia University and Int. Res. Institute for Climate and Society, U.S.A.
Robert Dyball, Australian National University, Australia
Salvatore Siciliano, Fiocruz, Brazil
Simron Singh, IFF-Social Ecology, Austria
Susan A. Crate, George Mason University, USA
Thomas J. Burns, University of Oklahoma, USA
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The Society for Human Ecology is deeply grateful for support and organization of XV SHE, Rio, 2007:

FIFO - Fisheries and Food Institute
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IIE - Instituto Internacional de Ecologia
SBEE - Sociedade Brasileira de Etnobiologia e Etnoecologia
DGH - The German Society for Human Ecology
ESA - Ecological Society of America
VIG Informática: www.vig.com.br
Garota de Copacabana: Av. Atlântica, 3744

The Society for Human Ecology

SHE GOALS ARE TO:

- Provide a forum through which scientists, scholars, educators, and practitioners may exchange ideas and information.
- Promote the advancement of an ecological perspective in interdisciplinary studies and practice.
- Identify problems, discover their origins, examine possible solutions and their implications, and then make recommendations for implementing those solutions.
- Look ahead to the consequences of human action on our social, natural, and built environments.
- Build cooperative arrangements among human ecology programs and organizations throughout the world.
- Facilitate the exchange of this information throughout an international network of individuals interested in human ecology.

BRIEF HISTORY

The Society for Human Ecology was founded in 1981.

The first conference was held in 1985

1. Human Ecology: a gathering of perspectives, University of Maryland, 1985.
2. Human Ecology: research and applications, College of Atlantic, 1986.
3. Human Ecology: steps to the future, Golden Gate Recreation Area, California, 1988.
4. Human Ecology: strategies for the future, Michigan State University, 1990.
5. Human Responsibility and Global Change, Gothenburg University, 1991.
6. Human Ecology: crossing boundaries, Snowbird, Utah, 1992.
7. Human Ecology: progress through integration of perspectives, Michigan State University, 1994.
8. Human Ecology: livelihood and livability, Lake Tahoe, CA, 1995.
9. Local and global communities: complexity and responsibility, College of Atlantic, 1997.
10. Living with the land: interdisciplinary research and adaptive decision making, McGill University, Montreal, 1999.
11. Democracy and sustainability: adaptive planning and management, Jackson, WY, 2000.
12. Tourism, travel and transport: a human ecological perspective on human mobility, Cozumel, 2004.
13. Human Ecology: research and practice, Salt Lake City, 2005.
14. Interdisciplinary integration and practice: reconciling humans and nature, College of the Atlantic, 2006.

EXECUTIVE BOARD OF SHE 2006-07

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Program Overview XV SHE Rio

Abstracts are available on SHE website:

www.societyforhumanecology.org

October 4, Thursday

09:00 to 04:00 PM Registrations

04:00 to 04:30 PM Welcoming Events (ROOM: VINICIUS/J.GILBERTO- MIRAMAR)

04:30 to 05:30 PM Keynote Address: PETER J. RICHERSON (ROOM: VINICIUS/J.GILBERTO- MIRAMAR)

05:30 to 06:30 PM Keynote Address: KARL REINHARD (ROOM: VINICIUS/J.GILBERTO- MIRAMAR)

06:30 PM Cocktail Reception (CONVÉS, Hotel MIRAMAR)

October 5, Friday

10:30 to 03:00 PM **POSTERS** (CONVÉS, Hotel MIRAMAR)

08:00 to 09:30 AM **ORAL SESSIONS**

I. Indigenous/ Local Knowledge & Sustainability

I.1. The Role of Indigenous Knowledge in the Adaptive Process (K.Morrison, Lincoln U./New Zealand, Morrison@lincoln.ac.nz) Room: Vinicius, Miramar

II. Diversity And Management

II.1. Shifting Cultivation and Tropical Forests in a Changing World (C. Adams & R.Murrieta/USP/Brazil, cadams@usp.br) Room: João Gilberto, Miramar

II. 2. Agroecology (M. Habib, PREAC, UNICAMP, habib@reitoria.unicamp.br) Room: Hotel Debret

III. Directions In Human Ecology

III.1. Human Ecology and Health (F. Pires UFSC/Brazil, VUB/Belgium favila@matrix.com.br)

Room: Convés, Miramar

IV. Marine & Coastal Management

IV.1 2nd LOICZ Symposium on "Social-Ecological Systems Analysis": Understanding Complex Social-Ecological Dynamics: Integrating Different Geographical Scales in Coastal Systems. Session One. Chair: Bernhard Glaeser, Co-Chair: Marion Glaser (bglaeser@wzb.eu and Marion.Glaser@zmt-bremen.de) Room: Baden Powell, Miramar

09:30 to 10:00 AM **COFFEE BREAK** (Hotel DEBRET)

10:00 to 11:30 AM **ORAL SESSIONS**

II. Diversity And Management

II.3. Contributions of Human Ecology to Understand and to Manage Artisanal Fisheries (R. Silvano/UFRGS/FIFO/Brazil, silvano@ecologia.ufrgs.br) Room: Hotel Debret

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III. Directions In Human Ecology

III.2. Behavior and Ecology: Psychology Looks at Mind and Nature (G. Myers, Jr., WWU/USA, gmyers@cc.wvu.edu or Gene.Myers@wvu.edu). Room: *Vinicius, Miramar*

IV. Marine and Coastal Management

IV.1 2nd LOICZ Symposium on "Social-Ecological Systems Analysis": Understanding Complex Social-Ecological Dynamics: Integrating Different Geographical Scales in Coastal Systems. Session Two. Room: *Baden Powell, Miramar*

Organizers: Bernhard Glaeser, Marion Glaser, and Michael Orbach (Bernhard Glaeser bglaeser@wzb.eu and Marion Glaser Marion.Glaser@zmt-bremen.de)

V. Population In A Changing Environment

V.1 Environmental Pollution and Cultural Pollution (Michael R. Edelstein, Ph.D, medelste@ramapo.edu) Room *J. Gilberto, Miramar*

11:30 to 01:30 PM LUNCH

01:30 to 03:00 PM O RAL SESSIO NS

I. Indigenous/ Local Knowledge & Sustainability:

I.2. Sustainability and the Impact of Aid on Indigenous People (S.Singh, IFF-Social Ecology/Austria, simron.singh@uni-klu.ac.at) Room *Joao Gilberto, Miramar*

II. Diversity And Management

II.4 Diversity and Management of Extractive and Farming Systems (L. Hens & A. Begossi / VUB/Belgium & UNICAMP/FIFO/Brazil, pevdborr@vub.ac.be). Room: *Vinicius, Miramar*

V. Population In A Changing Environment

V.2. Geographic Information Systems and Remote Sensing in Studies of Population and Environment. (A. D`Antona, ACT/Indiana University/USA;/NEPO/UNICAMP/Brazil, adantona@indiana.edu) Room: *Hotel Debret*

IV. Marine & Coastal Management

IV.1 2nd LOICZ Symposium on "Social-Ecological Systems Analysis" Understanding Complex Social-Ecological Dynamics: Integrating Different Geographical Scales in Coastal Systems. Session Three. (Chair: Marion Glaser, Co-Chair: Laurence Mee marion.Glaser@zmt-bremen.de) Room *Baden Powell, Miramar*

03:00 to 04:00 PM **Keynote Address: EMILIO MO RÁN**
Room: *VINICIUS/J.GILBERTO - MIRAMAR*

04:00 to 04:30 PM C O FFEE BREAK (*Ho tel MIRAMAR*)

04:30 to 05:30 PM **Keynote Address: ALMO FARINA**
Room: *VINICIUS/J.GILBERTO - MIRAMAR*

05:30 to 09:00 PM **ROUNDTABLE DISCUSSIONS** (Joint sessions III.3 & III.4)
RO O M: VINICIUS/J.GILBERTO - MIRAMAR

III.3 New Directions in Human Ecology - Higher Education for Sustainable Development (W.Serbser/J. Mrzljak, DGH/GFÖ/Germany, wolfgang.serbser@alumni.tu-berlin.de) &

III.4. At-Distance Education in Human Ecology: opportunities and challenges Contact: (R. Dyball, ANU/Australia, rob.dyball@anu.edu.au)

October 6, Saturday

08:00 to 09:30 AM O RAL SESSIO NS

Program Overview XV SHE Rio

I. Indigenous/ Local Knowledge & Sustainability

I.3 Folk and Indigenous Transformations in the Amazon Region: Implications of Contact, Land-Use Schemes and Market Economies (L. Forline, University of Nevada-Reno/USA, forline@unr.edu)
Room: Vinicius, Miramar

I.4 Contributions of Fishers 'Local Ecological Knowledge' and Scientific Research to Marine Mammals' Conservation (S.Siciliano & S. Pacheco, ENSP/DENSP/FIOCRUZ & UNICAMP/FIFO, Shirley@terraemar.org) Room J. Gilberto, Miramar

I.5. Traditional People, Biodiversity and Cultural Diversity (A.C.Diegues, NUPAUB/USP/Brazil, adiegues@usp.br). Session One. Hotel Debret

II. Diversity And Management

II.5. Environment and Agriculture (E. Shoreman/Boston University/USA, shoreman@bu.edu) Room Baden Powell, Miramar

09:30 to 10:00 AM COFFEE BREAK (Hotel DEBRET)

10:00 to 05:30 PM CLAES MEETING (HOTEL DEBRET)

10:00 to 11:30 AM ORAL SESSIONS

III. Directions In Human Ecology

III.5 Co-Managing Common-Pool Resources: Challenges and Advances (C. Futemma, UFSCar/Brazil, cfutemma@uol.com.br and C. Seixas/FIFO/Brazil). Room J. Gilberto, Miramar

V.Population In A Changing Environment

V.3 Climate and Culture I (Session One)(S. A. Crate, K. E. Halvorsen, D. C. Natcher and R. Taddei / USA / CANADA) (scrate1@gmu.edu, kehalvor@mtu.edu, renzotaddei@gmail.com david.natcher@usask.ca). Room Baden Powell, Miramar

V.4.Culture Nurturing Nature: A Chance for (Environmental) Change (J. G. Marques, UEFS/Brazil, gmarquesuefs@gmail.com) Room Vinicius, Miramar

VII. CLAES MEETING Hotel Debret

11:30 to 01:30 PM LUNCH

01:30 to 03:00 PM ORAL SESSIONS

I. Indigenous/ Local Knowledge & Sustainability

I.6. Advances in Ethnoecology and Ethnobotany (N. Hanazaki & N. Peroni, UFSC/FIFO,Brazil, natalia@ccb.ufsc.br): Hotel Portinari

V.Population In A Changing Environment

V.3. Climate and Culture II (Session Two) (S. A. Crate, K. E. Halvorsen, D. C. Natcher and R. Taddei/USA/CANADA)(scrate1@gmu.edu, kehalvor@mtu.edu, renzotaddei@gmail.com david.natcher@usask.ca Room Baden Powell, Miramar

V.5. Adaptive Co-Management: Building Resilience in Local Management Systems (C.Seixas, FIFO/Brazil, csseixas@hotmail.com and C. Futemma, UFSCar/Brazil) Room J. Gilberto, Miramar

VI. Food And Environment

VI. 1 Environmentally Significant Consumption (ESC): Emphasis on Food (M. Vinnari, TSE/Finland, markus.vinnari@tse.fi) Room Vinicius, Miramar

VII. CLAES MEETING: Hotel Debret

03:00 to 04:00 PM **Keynote Address: MIGUEL PETRERE Jr.**
Room: VINICIUS/J.GILBERTO - MIRAMAR

04:00 to 04:30 PM COFFEE BREAK (Hotel MIRAMAR)

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04:30 to 05:30 PM **Keynote Address: KATHERINE McCARTER**
Room: VINICIUS/J.GILBERTO - MIRAMAR

05:30 to 07:00 PM **ROUNDTABLE DISCUSSION: CLAES**
ROOM: VINICIUS/J.GILBERTO - MIRAMAR

07:00 to 08:00 PM **Keynote Address: CORNELIA NAUEN & PIERRE VALETTE**
Room: VINICIUS/J.GILBERTO - MIRAMAR

08:00 PM **CONFERENCE DINNER** (*Hotel MIRAMAR*)

October 7, Sunday

08:00 to 09:30 AM **O RAL SESSIO NS**

I. Indigenous/ Local Knowledge & Sustainability

I.5. Traditional People, Biodiversity and Cultural Diversity (A.C.Diegues, NUPAUB/USP/Brazil, adiegues@usp.br). Session Two. Hotel Debret

IV. Marine & Coastal Management

IV.2. Searching the Real Values of the Sea: the ECOST Perspective (P. Failler, CEMARE/UK, pierre.failler@port.ac.uk). Room Baden Powell, Miramar

V.Population In A Changing Environment

V.6 Environmental Degradation (R. Purdom, Green Mountain College, USA purdomr@greenmtn.edu) Room: Vinicius, Miramar

V.7. Using and perceiving a changing environment (T. Burns, University of Oklahoma, USA, University of Oklahoma, USA, tburns@ou.edu) Room: J. Gilberto, Miramar

09:30 to 10:00 AM **CO FFEE BREAK** (*Hotel DEBRET*)

10:00 to 11:30 AM **O RAL SESSIO NS**

II. Diversity And Management

II.6 Community-Based Faunal Management (J. Pezzuti, UFPA, juca@ufpa.br and George Rebêlo, UFPA) Room: Hotel Debret

III. Directions In Human Ecology

III.6. Integrated Analysis of Local Sociological Systems: Combining Agent-Based and Stock-Flow Modelling Approaches (V. Gaube, H. Adensam & R. Matthews, IFF & Macaulay I./Austria & UK, Heidi.Adensam@uni-klu.ac.at). Room: Baden Powell, Miramar

III.7. Temporal and Spatial Cross-scale Approaches in Human Ecology: Implications for Resource Use (K. Demps/UCDavis/USA, kedemps@ucdavis.edu, N. Peroni and N. Hanazaki (FIFO/UFSC/Brazil, nivaldo@unicamp.br) Room: Vinicius, Miramar

IV. Marine & Coastal Management

IV.3 Local Knowledge and the History of Marine Ecosystems (M; Gasalla/IOUSP/Brazil, mgasalla@usp.br). Room: J. Gilberto, Miramar

11:30 to 12:30 PM **Closing ceremony: SHE Business Meeting**
ROOM: VINICIUS/J.GILBERTO - MIRAMAR

Program

October 4, Thursday

09:00 to 04:00 PM Registrations

04:00 to 04:30 PM Welcoming Events (ROOM: VINICIUS/J.GILBERTO- MIRAMAR)

04:30 to 05:30 PM Keynote Address: PETER J. RICHERSON (ROOM: VINICIUS/J.GILBERTO- MIRAMAR)

05:30 to 06:30 PM Keynote Address: KARL REINHARD (ROOM: VINICIUS/J.GILBERTO- MIRAMAR)

06:30 PM Cocktail Reception (CONVÉS, Hotel MIRAMAR)

October 5, Friday

10:30 to 03:00 PM PO STERS (CONVÉS, Hotel MIRAMAR)

08:00 to 09:30 AM O RAL SESSIONS

I.1 The Role of Indigenous Knowledge in the Adaptive Process

Room: Vinicius, Miramar

Chair: K. Morrison, Lincoln University, New Zealand, Morrison@lincoln.ac.nz

I.1.1 Experiential learning of human ecology

Keith Morrison, Coordinator Sustainable Community Development Forum, Lincoln University, New Zealand, Morrison@lincoln.ac.nz

I.1.2 Indigenous knowledge systems driving cultural adaptation

Marina Apgar, Environment Society and Design, Lincoln University, Aotearoa, New Zealand
apgarj2@lincoln.ac.nz

I.1.3 Exploitation and use value for species of Cerrado by the rural population from Caiapônia, Goiás, Brazil

Priscila Garcia Angelo¹, Matheus de Souza Lima-Ribeiro², Adriana Rosa Carvalho³ and Flávia Pereira Lima⁴ ¹Biologist, Brazil; ²Universidade Católica de Goiás, Brazil; ³Universidade Estadual de Goiás, Anápolis, Brazil; ⁴CEPAE, Universidade Federal de Goiás, Brazil
a_r_carvalho@yahoo.com.br

I.1.4 Fishers' ecological knowledge for managing a Marine Extractive Reserve

Paula Chamy¹ and Cristiana Simão Seixas², ¹NEPAM, UNICAMP, Brazil; ²Fisheries and Food Institute (FIFO), Campinas, Brazil, paulacpc@usp.br

I.1.5 Indigenous knowledge (IK) in environmental management

Nä Iaean J. Cranwell rāua ko Hirini Matunga, Takuahi Research and Development Ltd, Wairewa Rūnanga, New Zealand, Iaean.Cranwell@ngaitahu.iwi.nz

I.1.6 Communities working together to conserve treasured species

II.1 Shifting Cultivation and Tropical Forests in a Changing World

Room: João Gilberto, Miramar

Chairs: C. Adams and R. Murrieta, USP, Brazil, cadams@usp.br

II.1.1 "Slash-and-mulch" - A valid proposal or idealistic experimentation? Strategies for the dissemination of non-mechanical and fire-free land reparation on small-scale farms at the Transamazon Highway in the eastern Amazon, Brazil

Benjamin Blum, "ForLive" Research Project, benjamin.blum@fh-rotenburg.de

II.1.2 Space and crop diversity management in the Middle and Upper Negro River (Brazilian Amazon)

Laure Emperaire and Ludivine Eloy, IRD, Brasilia, DF, Brazil, laure.emperaire@uol.com.br

II.1.3 Dark earths and manioc agriculture in Central Amazonia: a window on pre-Colombian agricultural systems

James Fraser*^{1,2} and Charles R. Clement^{2,3} ¹Department of Anthropology, University of Sussex, UK; ²Instituto Nacional de Pesquisas da Amazônia, Coordenação de Pesquisas em Ciências Agronômicas, Brazil; ³Fellow of the Conselho Nacional de Desenvolvimento Científico e Tecnológico – CNPq, Brazil, j.a.fraser@sussex.ac.uk

II.1.4 Slash-and-burn agriculture and indigenous communities in Amazonia: Sedentarization and insustainability

Robert P. Miller, Instituto Olhar Etnográfico, Brasília, DF, Brazil, robert_safs@yahoo.com.br

II.1.5 When the shifting agriculture is gone: functionality of Atlantic Coastal Forest in abandoned farming sites

Rogério Ribeiro de Oliveira, Departamento de Geografia, PUC-Rio, Brazil, rro@geo.puc-rio.br

II.1.6 The political ecology of Quilombola slash and burn agriculture: Demographic and socioeconomic dimensions

N. N. Pedroso-Junior^{1,2}, R. S. Murrieta^{1,2}, A. P. Ruivo², N. D. Navazinas², C. S. Taqueda and D. V. Bernardo², ¹Departamento de Ecologia, Instituto de Biociências, Universidade de São Paulo, Brazil; ²Laboratório de Estudos Evolutivos Humanos, Departamento de Genética e Biologia Evolutiva, IB, USP, Brazil, nelsonnovaes@uol.com.br

II.1.7 Evolutionary ecology of manioc and management of swidden cultivation: generating diversity up to when?

Nivaldo Peroni, Fisheries and Food Institute (FIFO), Campinas, SP, Brazil, peronin@gmail.com

II.1.8 Producing and reproducing: Dietary intakes, work patterns and nutritional status of lactating Ribeirinha women in the eastern Amazon.

Barbara A. Piperata, Assistant Professor Department of Anthropology The Ohio State University, Columbus, OH, USA, piperata.1@osu.edu

II.2 Agroecology and Sustainable Rural Development

Room: Hotel Debret

Chair: M. Habib, Instituto de Biologia & PREAC, UNICAMP, Brazil, habib@reitoria.unicamp.br

II.2.1 Medicinal gardens and multifunctionality: Empowerment of urban life

P. E. Rodrigues^{1,2}, M. M. R. Cardoso¹, J. D. Ricarte¹ and M. Schiavinato¹ ¹Instituto de Biologia, Unicamp, Brazil; ²Unicamp, Brazil, paulo_rod@yahoo.com.br

II.2.2 Evaluating and advertising small-scale organic farmers at Central Coast of California

J. D. Ricarte^{1,2}, A. L. Lima¹ and M. Habib¹ ¹Instituto de Biologia, Unicamp, Brazil; ²Unicamp, Brazil, juricarte@yahoo.com.br

II.2.3 Participatory learning as a proposal to sustainability achievement: agroecology in three rural settlements, Sumaré, SP

Marcelo de A. Vaz Pupo¹, Giovanna Garcia Fagundes² and Mohamed Habib² ¹Biological Sciences Program, Unicamp, Brazil; ²Depto. de Zoologia, Instituto de Biologia, Unicamp, Brazil

II.2.4 Organic farmers perception about Environmental Sustainability

Juliana Duz Ricarte¹, Giovanna Garcia Fagundes², José Maria Gusman Ferraz³, Mohamed Habib⁴ ¹Biological Sciences Course/ Unicamp. juricate@yahoo.com.br

Program

III.1 Human Ecology and Health

Room: Convés, Miramar

Chair: F de Ávila-Pires, UFSC/VUB, Brazil, favila@matrix.com.br

III.1.1 The origin and evolution of human parasites

Adauto Araujo¹, Luiz Fernando Ferreira, Karl Reinhard², ¹ Escola Nacional de Saúde Pública Sergio Arouca, Fundação Oswaldo Cruz, Rio de Janeiro, Brazil, ² Fulbright Senior Specialist, Botanical Archaeology, Professor, Forensic Sciences

Associate Director, Nebraska Institute of Forensic Science, USA, adauto@ensp.fiocruz.br

III.1.2 Human Ecology and Chagas Disease: The case of Amazon Region

José Rodrigues Coura, Oswaldo Cruz Institute (Fio Cruz), Rio de Janeiro, Brazil, coura@ioc.fiocruz.br

III.1.3 Rodents and robovirus: their relevance to human infections in Brazil

Elba R. S. de Lemos, Laboratório de Hantavírus e Rickettsioses, Instituto Oswaldo Cruz, Rio de Janeiro, RJ, Brazil. elemos@ioc.fiocruz.br

III.1.4 Globalization & Chagas disease

Jane Costa, Laboratório de Biodiversidade Entomológica, Instituto Oswaldo Cruz, FIO CRUZ, Rio de Janeiro, Brazil, jcosta@ioc.fiocruz.br

III.1.5 Sanitation and health: a collective construction in the National Park of Xingu, Brazil

Douglas Rodrigues¹, Emilia Rutkowski, Luiz Carlos Spiller Pena² and Sofia Mendonça –

¹ Universidade Federal de São Paulo, Departamento de Medicina Preventiva - Projeto Xingu

² Universidade Estadual de Campinas – FEC - Faculdade de Engenharia Civil, Arquitetura e Urbanismo, DSA - Departamento de Saneamento e Ambiente, FLUXUS - Laboratório de Estudos em Sustentabilidade Socioambiental e Redes Técnicas, dou.xingu@uol.com.br

IV.1 2nd LOICZ Symposium on “Social-Ecological Systems Analysis”: Understanding Complex Social-Ecological Dynamics: Integrating different geographical scales in coastal systems Session 1 – Planning and Understanding SES

Room: Baden Powell, Miramar

Chair: Bernhard Glaeser, Co-Chair: Marion Glaser

IV.1.1 Hainan Island: an integrative and adaptive Eco-province planning and management

Rusong Wang, Research Center for Eco-Environmental Science, Chinese Academy of Sciences, Beijing, China, wangrs@rcees.ac.cn

IV.1.2 A social-ecological analysis on the Eco-Province approach of Shandong and the Jiaolai Marine Canal

Julia Xue, Ocean University, Qingdao, China, juliaxue@ouc.edu.cn

IV.1.3 Knowledge management in social-ecological systems: Experiences from ICZM in European Countries

Karl Bruckmeier, University of Gothenburg, Sweden, School of Global Studies, Human Ecology, Sweden, karl.bruckmeier@globalstudies.gu.se

IV.1.4 European lifestyles and marine ecosystems: innovations in predictive modeling of social-ecological systems

Laurence Mee, Marine Institute, University of Plymouth, Plymouth, UK, LMee@plymouth.ac.uk

09:30 to 10:00 AM COFFEE BREAK (*Hotel DEBRET*)

10:30 to 03:00 PM POSTERS (*CONVÉS, Hotel MIRAMAR*)

Program

10:00 to 11:30 AM ORAL SESSIONS

II.3 Contributions of Human Ecology to Understand and to Manage Artisanal Fisheries

Room: Hotel Debret

Chair: R. Silvano, UFRGS/FIFO, Brazil, renato.silvano@ufrgs.br

II.3.1 The costs of collective management in the floodplain fisheries of the Lower Amazon

David G. McGrath 1,2,3, Oriana T. Almeida 1,3 and Virginia S. Calabria 4 1Federal University of Pará, Belém, Pará, Brazil; 2Woods Hole Research Center, Falmouth, MA, USA; 3Instituto de Pesquisa Ambiental da Amazônia (Ipam), Belém, PA, Brazil; 4Conselho Nacional de Pesquisa (CNPq), Santarém, PA, Brazil, dmcgrath@amazon.whrc.org

II.3.2 Using traditional knowledge from artisanal fishers of the Colombian Caribbean Coast to identify the evolution of their activity: "old times, always better"?

Juan Pablo Caldas A.1 and Camilo B. García2 , 1Posgrado de Biología Marina, Universidad Nacional de Colombia, Santa Marta, Colombia; 2Departamento de Biología, Universidad Nacional de Colombia, Bogotá, Colombia.jpcaledasa@unal.edu.co

II.3.3 Contributions of fishers' knowledge to fisheries surveys and impact assessment in the Lower Tocantins River, Brazilian Amazon *

Renato A. M. Silvano1,3, Gustavo Halwass1 and Priscila F. L. Maccord2,3 1Department of Ecology, UFRGS, Porto Alegre, RS, Brazil, 2Graduate Group in Ecology, IB UNICAMP, Brazil; 3Fisheries and Food Institute, Campinas, SP, Brazil

II.3.4 Preliminary data about common snook (*Centropomus undecimalis*): ethnoecology at Natal, RN (Brazil)*

C. de M. Martinelli1 and A. Begossi2 1PG Ecologia,IB,UNICAMP & FIFO, Brazil; 2CAPECA,PREAC,UNICAMP & FIFO, Brazil, claudevinda@yahoo.com.br

II.3.5 An appraisal of the fishing communities' local ecological knowledge as possible management tool in two Colombian Caribbean protected areas

Luís Manjarrés M., Socorro Sánchez F. and Luís O. Duarte C., Laboratorio de Investigaciones Pesqueras Tropicales, Universidad del Magdalena, Santa Marta, Colombia ssanchezf2001@yahoo.com

II.3.6 Territoriality of fishing in an area of the Medium Negro River

Thaissa Sobreiro1, 3; Carlos Edwar de Carvalho Freitas 2,3. 1- Amazonian Research Institute (INPA), Manaus, AM, Brazil, thaissa_sobreiro@yahoo.com.br; 2 - Federal Univ. Amazonas. Manaus, Brazil. cefreitas@ufam.edu.br 3 - PIATAM Project, Manaus, AM, Brazil

III. 2 Behavior and Ecology: Psychology Looks at Mind and Nature

Room: Vinicius, Miramar

Chair: G. Myers, Jr., WWU, USA, gmyers@cc.wwu.edu or Gene.Myers@wwu.edu

III.2.1 Ecology — Scientific foundations and mythic imagination

Richard J. Borden, College of the Atlantic, Bar Harbor, ME, USA, rborden@coa.edu

III.2.2 A sense of self-in-place and the impulse for urban sprawl: two exploratory studies and future prospectus

Jim Cantrill, Northern Michigan University, MI, USA, jcantril@nmu.edu

III.2.3 Psychological inquiry and conservation: tracing the linkages

Gene Myers, Huxley College of the Environment, Western Washington University
Gene.Myers@wwu.edu

IV.1 2nd LOICZ Symposium on "Social-Ecological Systems Analysis": Understanding Complex Social-Ecological Dynamics: Integrating different geographical scales in coastal systems Session 2 - Inter- and Transdisciplinarity

Room: Baden Powell, Miramar

Chair: Michael K. Orbach, Co-Chair: Bernhard Glaeser

Program

IV.1.5 The “Total Ecology” of environmental issues

Michael K. Orbach, Duke University Marine Laboratory, Nicholas School of the Environment
mko@duke.edu

IV.1.6 A transdisciplinary approach to coastal planning

Francesca M. Santoro, International Marine Centre, Località Sa Mardini, 09170 Torregrande (OR), Italy, f.santoro@imc-it.org

IV.1.7 Patron-client institution as a pathway to strengthen socio-ecological resilience of coastal community in Spermonde Islands

Dewi Yanuarita¹, M. Yusran², and M. Neil³ (Presenter: M Yusran, Center for Coral Reef Studies, Hasanuddin University, South Sulawesi, Indonesia
pesisir@unhas.ac.id and pstkuh@indosat.net.id

IV.1.8 Socio-ecological impacts and integrated coastal management: a case study from North Chennai Coast, India

R. Ramesh, Institute for Ocean Management, Anna University, Chennai, INDIA,
rramesh_au@hotmail.com

V.1 Environmental Pollution and Cultural Pollution

Room J. Gilberto, Miramar

Chair: M. R. Edelstein, Ramapo College of New Jersey, USA, medelste@ramapo.edu

V.1.1. Legal decisions, cultural biases and racism: the U.S. Courts and Indigenous Peoples' land rights

Thomas E. Luebben, Esq. Luebben Johnson & Barnhouse LLP, Los Ranchos de Albuquerque, USA,
tluebben@luebbenlaw.com

V.1.2 Native recovery after environmental and cultural devastation

Austin Nunez, San Xavier District Council, Tohono O'odham Nation, anunez@waknet.org

V.1.3. Thinking like an island: finding sustainability Hawaiian style

Lehua Lopez-Mau, Executive Director, Hawai'i Island Land Trust, lopezmau@hawaii.rr.com

V.1.4 Translating indigenous, cultural, environmental, and community impacts using psycho-social impact assessment

Michael R. Edelstein, Professor of Environmental Psychology, Ramapo College of New Jersey,
medelste@ramapo.edu

V.1.5 Educating children to live in a contaminated environment: cross cultural comparisons

Lyudmila V. Smirnova, Ph.D., Mount St. Mary College, Newburgh, NY, smirnova@msmc.edu

01:30 to 03:00 PM O R A L S E S S I O N S

I.2 Sustainability and the Impact of Aid on Indigenous People

Room Joao Gilberto, Miramar

Chair: S. Singh, IFF-Social Ecology, Austria, simron.singh@uni-klu.ac.at

I.2.1 The political economy of complex disasters: Nicobar Islands in the aftermath of the tsunami

Simron Jit Singh and Willi Haas, IFF, Social Ecology, University of Klagenfurt, Vienna, Austria,
simron.singh@uni-klu.ac.at, Willi.haa@uni-klu.ac.at

I.2.2 Sustainability of development program promoted community organizations in natural resource management: a case study of tribal state of Meghalaya, India

Vincent Darlong¹ and Chetan Kumar² ¹NERCO RMP, IFAD, India; ²CIFOR, India,
drvtdarlong2002@yahoo.co.in

I.2.3 Hunter support programs and traditional foods in Northern Canada

Damian Castro, Department of Anthropology, Memorial University of Newfoundland, Canada
damiano castro@hotmail.com

1.2.4 Community based fisheries management in the Amazon: portrait of a Commons dilemma?

Patricia Pinho, Department of Environmental Science and Policy, University of California, Davis, USA, pfpinho@ucdavis.edu

1.2.5 Traditional Ecological Knowledge and socio-cultural institutions in conservation of critically endangered biodiversity: learning with Monpa community in Eastern Himalaya, Arunachal Pradesh

Ranjay K. Singh, Department of Extension Education and Rural Sociology, College of Horticulture and Forestry, Central Agricultural University, Arunachal Pradesh, India, ranjay_jbp@rediffmail.com

1.2.6 Five poles of Banyan & a Twig of Euphorbia: role of community specific cultural knowledge as a means of habituating the landscapes- case study from southern India

B. S. Somashekhar, Senior Program Officer, Foundation for Revitalisation of Local Health Traditions, Bangalore, India, bssomashekhar@hotmail.com

II.4 Diversity and Management: from Extractive to Farming systems

Room: Vinicius, Miramar

Chairs: L. Hens and A. Begossi, VUB/Belgium and UNICAMP/FIFO/Brazil, pevdborr@vub.ac.be

II.4.1 Beyond fishermen's tales: contributions of fishers' local ecological knowledge to fish ecology and fisheries management

Renato A. M. Silvano^{1*} and John Valbo-Jørgensen² Department of Ecology, UFRGS, Porto Alegre, RS, Brazil; ²Fisheries Resources Officer, FIME/FAO, Rome, Italy, renato.silvano@ufrgs.br

II.4.2 Artisanal fishers' ethnobotany: from plant diversity use to agrobiodiversity management

Nivaldo Peroni¹, Natalia Hanazaki² and Alpina Begossi^{1,3} ¹Fisheries and Food Institute (FIFO), Brazil; ²Department of Ecology and Zoology, Universidade Federal de Santa Catarina, Brazil; ³CAPESEA, PREAC, UNICAMP, Brazil, nivaldo@unicamp.br

II.4.3 Extracted and farmed shrimp fisheries in Brazil: economic, environmental and social consequences of exploitation

Priscila F. L. MacCord^{1,2,3*} ¹Graduate Program in Ecology, IB, Universidade Estadual de Campinas; ²FIFO – Fisheries and Food Institute, Campinas, SP, Brazil; ³Fisheries Management and Training Program, PREAC, UNICAMP, Brazil, pmaccord@gmail.com

II.4.4 Ten Years of international scientific cooperation in fisheries, aquaculture and coastal zones -some preliminary lessons

Cornelia E. Nauen, International Scientific Cooperation, European Commission, DG Research, Brussels, cornelia.nauen@ec.europa.eu

II.4.5 Local Knowledge and training towards management

Alpina Begossi, CAPESEA, PREAC, UNICAMP & Fisheries and Food Institute (FIFO), Brazil, alpinab@uol.com.br

II.4.6 Constructing a policy and institutional framework for an ecosystem-based approach to managing the Lower Amazon Floodplain

David G. McGrath¹, Alcilene Cardoso², Oriana T. Almeida³ and Juarez Pezzuti³
¹Núcleo de Altos Estudos Amazônicos (NAEA), Federal University of Para, Belem, PA, Brazil, & Woods Hole Research Center, Falmouth, USA & Instituto de Pesquisa Ambiental da Amazonia (IPAM), Santarem, PA, Brazil; ²Instituto de Pesquisa Ambiental da Amazonia (IPAM), Santarem, PA, Brazil; ³Núcleo de Altos Estudos Amazônicos (NAEA), Federal University of Para, Belem, PA, Brazil & Instituto de Pesquisa Ambiental da Amazonia (IPAM), Santarem, PA, Brazil. dmcgrath@amazon.whrc.org

II.4.7 Accounting for the mismanagement of Tropical Nearshore Fisheries

Kenneth Ruddle¹ and Francis R. Hickey² ¹School of Policy Studies, Kwansei Gakuin University, Kobe-Sanda Campus, Japan; ²Vanuatu Cultural Centre, Port Vila, Vanuatu mb5k-rddl@asahi-net.or.jp

II.4.8 A Sea of Dreams: valuing culture in marine conservation

John Cordell, The Ethnographic Institute, Berkeley, California, USA, jcordell.dnai@rcn.com

Program

V.2 Geographic Information Systems and Remote Sensing in Studies of Population and Environment

Room: Hotel Debret

Chair: A. D'Ántona, ACT/Indiana University/USA and NEPO/UNICAMP/Brazil,
adantona@indiana.edu

V.2.1 Brazilian Coastal Zone and sea level rising: vulnerability and multi-scale approach

Roberto Luiz do Carmo and Andrea Ferraz Young, Universidade Estadual de Campinas, Instituto de Filosofia e Ciências Humanas Departamento de Demografia Núcleo de Estudos de População, Brazil, roberto@nepo.unicamp.br

V.2.2 Riparian land use and management in an agricultural settlement area of the Brazilian Amazon

Cak, Anthony D., and E.F Moran, Indiana University, Indiana, USA, acak@indiana.edu

V.2.3 GIS integration of census and remote sensing data at different spatial scales: An analysis of demographic and socio-economic factors as drivers of deforestation in the Ribeira do Iguape River Basin, Brazilian Atlantic Forest

Humberto Alves, Pos-doctoral researcher at INPE – National Institute on Spatial Research, Brazil

IV.1 2nd LOICZ Symposium on “Social-Ecological Systems Analysis”: Understanding Complex Social-Ecological Dynamics: Integrating different geographical scales in coastal systems

Session 3 – People in rural communities

Room Baden Powell, Miramar

Chair: Marion Glaser, Co-Chair: Laurence Mee

IV.1.10 A systemic resilience in rural communities of the Brazilian Amazon: An analysis for sustainability and the participative intervention of social programs

Lucinaldo Blandtt, Nucleos of Higher Amazonic Studies - NAEA, Federal University of Pará, Belém, Brazil, blandtt@ecoflorestal.com

IV.1.11 Mangroves and people: A social-ecological system on the Caeté peninsula, Pará, North Brazil

Marion Glaser, University of Bremen, Germany, mglaser@zmt.uni-bremen.de

IV.1.12 Options for resilience in a co-evolutionary social-ecological framework: employing scenarios for a sustainable future

Gesche Krause, Center for Tropical Marine Ecology, Fahrenheitstr. 6, 28359 Bremen, Germany
Gesche.Krause@zmt-bremen.de

IV.1.13 Becoming a “pescadora”: A gender-based view of vulnerabilities and resilience in North-Brazilian coastal fisheries

Maria Cristina Maneschy, UFPA - Belem-Brazil, cristina@ufpa.br

IV.1.14 The dynamics and adaptive management of coastal mudflat wetland social-ecological system in Yanchen, China

Jinlou Huang, Research Centre for Eco-Environmental Sciences, Chinese Academy of Science, China; Centre for Transdisciplinary Environmental Research, Stockholm University, Sweden
lyphjl@hotmail.com

03:00 to 04:00 PM

Keynote Address: EMILIO MORÁN

Room: VINICIUS/J.GILBERTO - MIRAMAR

04:00 to 04:30 PM

COFFEE BREAK (*Hotel MIRAMAR*)

04:30 to 05:30 PM

Keynote Address: ALMO FARINA

Room: VINICIUS/J.GILBERTO - MIRAMAR

Program

05:30 to 09:00 PM **ROUNDTABLE DISCUSSIONS** (Joint sessions III.3 & III.4)
ROOM: VINICIUS/J.GILBERTO - MIRAMAR

III.3 New Directions in Human Ecology - Higher Education for Sustainable Development

Chairs: W.Serbser¹ and J. Mrzljak², ¹German Society for Human Ecology (DGH), ²Ecological Society of Germany, Switzerland and Austria (GfÖ), Germany, wolfgang.serbser@alumni.tu-berlin.de

III.3.1 A Swedish University program for Human Ecology in relation to the UN Resolution for higher education for sustainable development.

Karl Bruckmeier, University of Gothenburg, Sweden

III.3.2 Sustainable University – A transformative case study from Lueneburg

Angela Franz-Balsen, Leuphana University, Lueneburg, Germany

III.3.3 New courses in higher education for sustainable development: with real world problems, local people and scientific underpinning

Roman Lenz, University of Applied Sciences, Nürtinger-Geislingen, Germany

III.3.4 A College of Human Ecology for Europe

Wolfgang Serbser, German Society for Human Ecology (DGH), Germany

III.3.5 Environmental education at the university community of UCLV

Xiomara Cabrera Bermúdez, Central University “Marta Abreu” of Las Villas, Cuba

III.3.6 Portuguese research and teaching – latest developments

Teresa Rodriguez, New University of Lisbon, Portugal.

III.4. At-Distance Education in Human Ecology: Opportunities and Challenges

Chair: R. Dyball, Convener Human Ecology Program at the Fenner School of Environment and Society, Australian National University, Australia, rob.dyball@anu.edu.au

RT 1.1. New courses in higher education for sustainable development: with real world problems, local people and scientific underpinning

Prof. Dr. Roman Lenz, University of Applied Sciences, Nürtingen-Geislingen, Schelmenwasen Nürtingen, roman.lenz@hfwu.de

RT 1.2 Sustainable University – A transformative case study from Lueneburg

Franz-Balsen, A., Leuphana University Lueneburg, Germany, franz-balsen@uni-lueneburg.de

RT. 1.3 Actual events and virtual possibilities: The past, present and future of the Society for Human Ecology (SHE) on the world-wide web

Sean Berg and Richard Borden, College of the Atlantic, Society for Human Ecology, Bar Harbor, ME, USA, sberg@coa.edu

RT- 1.4 Education for Sustainability: Doing it at a distance

Rob Dyball and David Dumaresq, Human Ecology, The Fenner School of Environment and Society, Australian National University

RT 1.5 Experiencing the Difference: At Distance Education for Sustainability – The staff & student experience

David Dumaresq and Hedda Ranson-Elliott, Human Ecology, The Fenner School of Environment and Society, Australian National University

Further participants:

Richard Borden, College of the Atlantic, USA

Rob Dyball, Australian National University, Canberra, Australia (t.b.c.)

David Dumaresq, Australian National University, Canberra, Australia (t.b.c.)

Bernhard Glaeser, Social Science Center, Berlin, Germany

Luc Hens, Free University of Brussels, Belgium

Parto Tehrani-Kröner, Humboldt University Berlin, Germany

October 6, Saturday

08:00 to 09:30 AM O RAL SESSIONS

I.3 Folk and Indigenous Transformations in the Amazon region: Implications of Contact, Land-Use Schemes and Market Economies

Room: Vinicius, Miramar

Chair: L. Forline, University of Nevada, Reno, USA, forline@unr.edu

I.3.1 Economic change and nutritional status of tropical horticulturists in the eastern Amazon: a biocultural perspective

Barbara Piperata, Department of Anthropology, Ohio State University, USA, piperata.1@osu.edu

I.3.2 Learning from the past: lessons from Marajoara culture's sustainable economy

Denise Pahl Schaan, Universidade Federal do Pará, Brazil, denise@marajoara.com

I.3.3 Urbanization and food changes on the Middle Rio Negro (Amazonas, Brazil): towards the valuation of traditional foodways

Esther Katz, IRD, MNHN, Paris, France & CDS, UNB, Brasilia, Brazil, katz@mnhn.fr

I.3.4 The impact of Amazonia's socio-economic and environmental transformations on the health of local peasant populations: a bioanthropological perspective.

Hilton P. Silva, Museu Nacional, Universidade Federal do Rio de Janeiro, Brazil, hdsilva@acd.ufrj.br

I.3.5 New paradigms in the politics of inter-ethnic contact: implications of health and food security among the Guajá Indians of Maranhão

Louis Forline, Department of Anthropology, University of Nevada, Reno, USA, forline@unr.edu

I.3.6 Contributing towards the use and knowledge of medicinal plants: an example from an Amazonian coastal community (Para State, Brazil)

Márlia Regina Coelho Ferreira, Departamento de Botânica, Museu Paraense Emílio Goeldi, Pará, Brazil, marlia.ferreira@yahoo.com.br

I.4 Contributions of Fishers' Local Ecological Knowledge and Scientific Research to Marine Mammals' Conservation

Room J. Gilberto, Miramar

Chairs: S. Siciliano¹ and S. Pacheco², ¹ENSP/DENSP/FIO CRUZ and ²UNICAMP/FIO, Brazil

Shirley@terraemar.org

I.4.1 Local ecological knowledge of fishers about humpback whales (*Megaptera novaeangliae*) in Abrolhos, Northeastern Brazilian coast

Fernanda S. Nogueira^{1,2} and Renato A. M. Silvano¹

¹Departamento de Ecologia, Universidade Federal do Rio Grande do Sul, Porto Alegre, RS, Brazil;

²Pós-Graduação em Desenvolvimento Rural, Universidade Federal do Rio Grande do Sul, Brasil, fe_silveira@terra.com.br

I.4.2 Managing endangered baleen whales in U.S. state waters: a multi-partner collaboration designed to facilitate fishing industry stewardship in conservation

Sean K. Todd¹, Erin L. Summers² and Tora Johnson³, ¹Allied Whale, College of the Atlantic, Bar Harbor, Maine, USA; ²Maine Department of Marine Resources, West Boothbay Harbor, Maine, USA; ³University of Maine at Machias, Machias, Maine, USA, stodd@coa.edu

I.4.3 The ethnoecology of cetaceans by fishers from São Sebastião, Southeastern Brazilian coast

Shirley P Souza^{1,2,3,4*} and Alpina Begossi^{2,3} ¹Pós-Graduação em Ecologia, IB, UNICAMP, Campinas, SP Brazil; ²Fisheries and Food Institute, Campinas, SP, Brazil; ³Programa de Capacitação de Pescadores Artesanais para o Manejo da Pesca, PREAC, UNICAMP, Campinas, SP, Brazil; ⁴Projeto SOS Mamíferos Marinhos, Instituto Terra & Mar, São Sebastião, SP, Brazil. shirleypacheco@yahoo.com

I.4.4 "The tucuxi (river dolphin) helps the fishermen when he falls into the water, the pink-dolphin mistreats us, perturbs the fishery...": Study of the perception on cetacean by Amazonian fisherman

Roberta Sá L. Barboza^{1,a}, Neusa Renata Emin-Lima^{2,3}, Angélica Lúcia F. Rodrigues^{3,4} and Salvatore Siciliano^{2,4} ¹Mestre em Ecologia de Ecossistemas Costeiros e Estuarinos, UFPA; ²Grupo de Estudo de Mamíferos Aquáticos da Amazônia-Projeto Piatam Mar; ³Pós-Graduação em Teoria e Pesquisa do Comportamento, UFPA; ⁴ENSP/DENSP/FIOCRUZ, Brazil, a roberta_barboza@yahoo.com.br

I.5 Traditional People, Biodiversity and Cultural Diversity I

Room Hotel Debret

Chair: A. C. Diegues, NUPAUB, USP, Brazil, adiegues@usp.br

I.5.1 Waters from Coréia: ethno-oceanographic study

Gustavo Moura¹ and Antonio Carlos Diegues²

¹Student of Master of Environmental Science Program of São Paulo University (PROCAM-USP);

²Researches Support Center about Populations from Brazilian Wet Areas Coordinator

gugoreira@yahoo.com.br

I.5.2 Urban Caiçaras? From coastal to the slum urban areas of Paraty

Marina de Oliveira Mendonça¹ and Antonio Carlos S. Diegues^{2,1}

¹Student of M.S. of Environmental Science Program of São Paulo University (PROCAM / USP);

²Coordinator of the Researches Support Center about Human Populations in Brazilian Wet Areas of São Paulo University (NUPAUB / USP).

mmarimend@yahoo.com.br

I.5.3 The history of Protected Areas in Portugal

Bruno Pinto^{1*} and Maria Partidário², ¹Departamento de Ciências e engenharia do ambiente, New University of Lisbon, Caparica, Portugal; ²Instituto Superior Técnico, Technical University of Lisbon, Lisbon, Portugal, bpinto74@gmail.com

I.5.4 New aspects of the indigenous matter in the Amazon

Violeta Loureiro, Social Sciences, Universidade Federal do Pará, Brazil, violeta.loureiro@ig.com.br

I.5.5 Traditional and indigenous people in the context of conservation in the Amazon

Ana Beatriz Vianna Mendes, PhD Student of the Environmental & Society Program/NEPAM-UNICAMP, Campinas, Brazil, biroskinhaverde@yahoo.com.br

I.5.6 Indigeneity and public health in a global era: the potential contribution of holistic literacy as an approach to development.

Lewis Williams, University of Saskatchewan, Canada, lewis.williams@usask.ca

II.5 Environment and Agriculture

Room Baden Powell, Miramar

Chair: E. Shoreman, Boston University, USA, shoreman@bu.edu

II.5.1 Enhancing food security, poverty reduction and sustainable forest management in Ghana through non-timber forest products farming: case study of Sefwi Wiawso District

Emmanuel K. Boon and Albert Ahenkan, Human Ecology Department, Vrije Universiteit Brussel, Laarbeeklaan Brussels, eboon@vub.ac.be

II.5.2 The commercialization process in Ribeirinhas communities in Médio Solimões

E. F. Carneiro, T. J. P. Fraxe, R. R. Mourão and A. A. F. Rivas Universidade Federal do Amazonas, Brazil, elyfcc@hotmail.com

II.5.3 Environmental licensing in Agricultural Nestings of the agrarian reformation: new looks for sustainability

Luiz Carlos Spiller Pena and Simone Narciso Lessa, Faculdade de Engenharia Civil, Arquitetura e Urbanismo (FEC), Universidade Estadual de Campinas (UNICAMP), Campinas, SP, Brazil, spilena@terra.com.br

II.5.4 Traditional knowledge and market Integration of Mid-Solimões River Population, Amazonas, Brazil

R. R. Mourão^{1,2}, A. Rivas,² T. Fraxe^{1,2}, P. Teixeira^{1,2} and E. Melo^{1,2}

¹Federal University of Amazonas; ²Piatam Project - Intelligence Social-Environmental Strategic of the Industry of Petroleum at the Amazon, renata.mourao@piatam.org.br

II.5.5 Land quality monitoring systems that integrate local and technical knowledge contribute to improved natural resource management in agricultural landscapes

Edmundo Barrios¹ and Heitor Coutinho, Embrapa Soils - Rio de Janeiro, RJ, Brazil; ¹CNPq Visiting Researcher, Brazil, edmundo.barrios@gmail.com

II.5.6 Changes in wetland agriculture of Bangladesh: experience from Mithamain Union

Muhammad Jahedul Huq¹, Mohammad Nayeem Aziz Ansari² and Khnondaker Md. Shariful Huda² ¹MSc student of Human Ecology, Vrije university, Brussels; ²Assistant Professor, Department of Geography and Environment, Jahangirnagar University, Bangladesh. shovonju@yahoo.com

09:30 to 10:00 AM COFFEE BREAK (*Hotel DEBRET*)

10:00 to 05:30 PM **CLAES MEETING** (*HOTEL DEBRET*)

10:00 to 11:30 AM ORAL SESSIONS

III.5 Co-managing Common-Pool Resources: Challenges and Advances

Room J. Gilberto, Miramar

Chairs: C. Fudemma¹ and C. Seixas², ¹UFSCar; ²FIFO, Brazil, cfudemma@uol.com.br

III.5.1 Communal lands and agricultural strategies

Tamar Bajgielman, PPGAS – Museu Nacional – UFRJ (tamar.rio@gmail.com)

III.5.2 Aboriginal co-management of natural resources in Northern Canada: An Inventory of co-management boards

Carolina Tytelman, Memorial University of Newfoundland, Canada, Carolinaty@hotmail.com

III.5.3 Coastal reserve at Tibau do Sul – Protection of what?

Renata G. Ferreira, PhD in Biological Anthropology (University of Cambridge – UK). Researcher at Pós-Graduação Regional em Desenvolvimento e Meio Ambiente – Universidade Federal do Rio grande do Norte rgf27br@yahoo.com.br

III.5.4 A Common-pool resource experiment in Acequia communities in New Mexico

Nejem Harem, Department of Economics, MSC05-3060, University of New Mexico, Albuquerque, nejemraheem@yahoo.com

III.5.5 The new Amazonic frontier: a frontier of commodities

Violeta Refkalefsky Loureiro, Social Sciences, Universidade Federal do Pará - Brazil

violeta.loureiro@ig.com.br,

General Coordinating Bureau For The Creation And Administration Of Extractive Reserves, erikalencois@yahoo.com.br

III.5.6 Brazil 's Extractive Reserves – current situation and prospects

Fernandes-Pinto, É.; Cordeiro, A. Z. And Barbosa, S., IBAMA – Brazilian Institute For Environment And Renewable Natural Resources, DISAM – Directorate For Socioenvironmental Development,

V.3 Climate and Culture I

Room Baden Powell, Miramar

Chairs: S. A. Crate¹, K. E. Halvorsen², D. C. Natcher³ and R. Taddei⁴; ¹George Mason University, USA; ²Michigan Technological University, USA; ³University of Saskatchewan, Canada; ⁴Columbia University and International Research Institute for Climate and Society, U.S.A.

V.3.1 Climatologists and Merina farmers read the sky in Madagascar - Crossed glances

Daniel Peyrusaubes, ICoTEM EA –Département de géographie, Université de Poitiers, France, daniel.peyrusaubes@ mshs.univ-poitiers.fr

V.3.2 Rain and drought – climate and its representations in Mexico

Esther Katz and Annamaria Lammel, Marina Goloubinoff, , IRD/MNHN/CDS-UNB, France, katz@ mnhn.fr

V.3.3 The Great Drought of Restinga Sêca: Conflicts, politics and environment in the South region of Brazil

Carlos Abraão Moura Valpassos, PPG SA/ IFCS/ UFRJ, Brazil, valpassos@ yahoo.com.br

V.3.4 When “the hundred-year-flood comes every other year”: Inupiaq coping and adaptation strategies in a climate of change

Elizabeth Marino and Peter Schweitzer, Department of Anthropology, University of Alaska Fairbanks.

V.3.5 Climate change, culture change and human rights: Making the case for Viliui Sakha of Northeastern Siberia

Susan A. Crate, Department of Environmental Science and Policy, George Mason University, Fairfax, Virginia, USA, scrate1@ gmue.edu

V.3.6 Cultural models, climate change and biofuels

Kathleen E. Halvorsen, Stuart M. Kramer, Smriti Dahal, and Barry S. Solomon, Michigan Technological University, kehalvor@ mtu.edu; sdahal@ mtu.edu; smkramer@ mtu.edu; bdsolomo@ mtu.edu

V.4 Culture Nurturing Nature: A Chance for (Environmental) Change

Room Vinicius, Miramar

Chair: J. G. Marques, UEFS, Brazil, gmarquesuefs@gmail.com

V.4.1 The traditional knowledge on stingless bees (Apidae: Meliponina) by the Enawene-Nawe in Brazil

Gilton Mendes dos Santos and Yasmine Antonini, Universidade Federal do Amazonas, Universidade Federal de Ouro Preto, UFOP, giltonmendes@ufam.edu.br

V.4.2 Agrobiodiversity, culinary heritage and social changes: Case studies from Mexico and the Brazilian Amazon

Esther Katz, IRD/MNHN, Paris, France/CDS-UNB, Brasilia, Brazil, katz@mnhn.fr

V.4.3 Cocoa farmers and biodiversity in Southern Bahia: from the grapiúna identity in Jorge Amado's literature to the aftermath of the witches broom disease

Evandro do Nascimento Silva, Universidade Estadual de Feira de Santana, Brazil, evandro@uefs.br

V.4.4 Folk religion nurturing urban biodiversity (as exemplified by Brazilian Catholics and their most sacred bird)

José Geraldo W. Marques, Professor of Ethnobiology, Feira de Santana State University, Brazil, gmarquesuefs@gmail.com

V.4.5 Entities and identities

Tamar Bajgielman, Museu Nacional – UFRJ, tamar.rio@gmail.com

Program

V.4.6 Culture dependent time periods for complete diet intake: a question of sustainability

Márcio D'Olne Campos, mdolnecampos@terra.com.br

V.4.7 Ecological culture and Fung Shui woods in villages of China

ZHOU Hong LU Xing, College of Life Sciences, Yunnan University, Kunming Yunnan 650091, P. R. China, zhouhong@ynu.edu.cn

01:30 to 03:00 PM O R A L S E S S I O N S

I.6 Advances in Ethnoecology and Ethnobotany

Hotel Portinari

Chairs: N. Hanazaki¹ and N. Peroni², 1UFSC; 2FIFO, Brazil, natalia@ccb.ufsc.br

I.6.1 Non-timber forest products and people's livelihood in Bardia district, Nepal

Y. Uprety¹, S. Rajbhandary² and R.C. Poudel² 1Department of Human Ecology, Vrije University Brussels, Belgium; 2Ethnobotanical Society of Nepal, Kathmandu, Nepal, Yadein75@yahoo.com

I.6.2 Diversity and use of medicinal species by Aventureiro's community, Ilha Grande, RJ, Brazil

Karla Beatriz Lopes Baldini¹ and Luiz Sergio Pereira Sarahyba², ¹Student of Master Course of the Post-graduation in Environmental Science - Universidade Federal Fluminense (PGCA/UFF); ² IBAMA, Brazil, beatriz.karla@gmail.com

I.6.3 Local knowledge, management and conservation of the Buriti Palm Forests in the region of Lençóis Maranhenses (Brazil)

Érika Fernandes-Pinto¹ and Nicholas Allain Saraiva² 1Brazilian Institute for the Environment and Renewable Resources (IBAMA), 2NGO Pivot Maranhão, Brazil, erikalencois@yahoo.com.br

I.6.4 Ethnobotany of Pau-brasil (Caesalpinia echinata Lam.) in Rio de Janeiro, Brazil

Viviane Stern da Fonseca-Kruel, Instituto de Pesquisas Jardim Botânico do Rio de Janeiro, Brazil, vfonseca@jbrj.gov.br

I.6.5 Local crop diversity in the Brazilian Amazon and juridical and economic instruments for increased value and conservation

Laure Emperaire¹ and Juliana Santilli², 1Botanist IRD, Brazil, 2Juridical Expert, Doctoral student in socio environmental law, PUC, Paraná, Brazil, laure.emperaire@uol.com.br

V.3 Climate and Culture II

Room Baden Powell, Miramar

Chairs: S. A. Crate¹, K. E. Halvorsen², D. C. Natcher³ and R. Taddei⁴; 1George Mason University, USA; 2Michigan Technological University, USA; 3University of Saskatchewan, Canada; 4Columbia University and International Research Institute for Climate and Society, U.S.A.

V.3.7 Decision making, cultural context, and the "human dimensions" of climate studies

Renzo Taddei, Center for Research on Environmental Decisions, Columbia University, and International Research Institute for Climate and Society, U.S.A..renzotaddei@gmail.com

V.3.8 Beyond the forecast: Narrative in prediction performances

Karen Pennesi, University of Western Ontario, Canada pennesi@uwo.ca

V.3.9 Creating climate in Anthropology: An historical view of climate knowledge in the social sciences

Nicole Peterson, Center for Research on Environmental Decisions, Columbia, University, U.S.A.np2184@columbia.edu

V.3.10 Notions of time and sentience: Methodological considerations for climate change research

David C. Natcher, Department of Agricultural Economics and Indigenous Resource Management Program, University of Saskatchewan, Canada, david.natcher@usask.ca

V.3.11 Work, time and visibility: prophetic narratives in the Brazilian "sertão"

Karla Patrícia Holanda Martins and Fernanda Glória Bruno, 1UNIFOR – University of Fortaleza; 2Federal University of Rio de Janeiro, kphm@uol.com.br

Program

V.3.12 Environmental changes and livelihood responses to natural resources management in Central Sudan

Fobissie B. Kalmea,c*, Olavi Lukkannena, Elnour A. Elsidigb, Edinam K. Glovera and Markku Kanninenc , aViikki Tropical Resources Institute (VITRI), University of Helsinki, Finland. bUniversity of Khartoum, Sudan, cCenter for International Forestry Research (CIFOR), fobissie.kalame@helsinki.fi, f.kalame@cgiar.org

V.5 Adaptive Co-Management: Building Resilience in Local Management Systems

Room J. Gilberto, Miramar

Chairs: C. S. Seixas¹ and C. Fudemma² ; 1FIFO; 2UFSCAR, Brazil; csseixas@hotmail.com

V.5.1 The involvement of a traditional fishing community in a community-based fisheries monitoring program on the West Coast of South Africa

Adriana Rosa Carvalho¹; Mariam January²; Samantha Willians² and Merle Sowman²
¹State University of Goiás – UEG, Anápolis – UnUCET, Brazil, ² University of Cape Town/Environmental Evaluation Unit – EEU, South Africa, a_r_carvalho@yahoo.com.br

V.5.2 The “GTPESCA” experience: towards an adaptive co-management of fisheries systems at Upper-Medium São Francisco River, Minas Gerais, Brazil

Ana Paula Glinfskoi Thé, Department of Geosciences – State University at Montes Claros/UNIMONTES - MG – Brazil. anathecomanej@yahoo.com.br

V.5.3 Challenges and prospects of fisheries co-management under a Marine Extractive Reserve framework in Northeastern Brazil (Corumbau, Bahia, Brazil)

Rodrigo Leão de Moura¹, Carolina Viviana Minte-Vera², Isabela B. Curado³, Ronaldo B. Francini-Filho⁴, Helio C.L. Rodrigues, Ronaldo F. Oliveira⁵, Guilherme F. Dutra¹, Diego C. Alves², Francisco J. B. Souto⁶ ¹Conservation International, ²Universidade Estadual de Maringá.³Fundação Getúlio Vargas,⁴Universidade Federal da Bahia/CI,⁵ Reserva Extrativista Marinha do Corumbau,⁶Universidade Estadual de Feira de Santana, r.moura@conservation.org.br

V.5.4 The Arraial do Cabo Marine Extractive Reserve, Brazil: towards an adaptive co-management?

Cristiana Simão Seixas¹ and Paula Chamy² ¹Fisheries and Food Institute (FIFO), Campinas, Brazil –²NEPAM/UNICAMP, Brazil, csseixas@hotmail.com

V.5.5 Indigenous collaborative research on wildlife availability and management decision-making in Amazônia: the case of Kaxinawá territory, Acre, Brazil

Pedro de Araujo Lima Constantino^{1,*}, Francisco Rosenir Sabino Kaxinawá², Arlindo Maia Kaxinawá², Elias Sales Kaxinawá², Abel Paulino Kaxniawá², Lucas Sales Kaxinawá², Jaime Maia Kaxinawá², João Pereira Kaxinawá², and Lucas Fortini³

¹Comissão Pró-Índio do Acre: Rua Pernambuco, no 1025, Bosque. Rio Branco, Acre. CEP: 69907-580; ²Associação do Movimento dos Agentes Agroflorestais Indígenas do Acre: Rua Pernambuco, no 1025 - fundos, Bosque. Rio Branco, Acre, Brasil, 69907-580; ³School of Forestry Resources and Conservation, University of Florida, PO Box 110760, Gainesville, FL. USA, 32611-0760; pconst@usa.net

VI.1 Environmentally Significant Consumption (ESC): Emphasis on Food

Room Vinicius, Miramar

Chair: M. Vinnari, TSE, Finland, markus.vinnari@tse.fi

VI.1.1 Managing the environment of a fishing community through the local food system

Marina Vianna Ferreira; Nivaldo Nordi, Laboratório de Ecologia Humana e Etnoecologia, Departamento de Hidrobiologia, Universidade Federal de São Carlos, marina.vf@uol.com.br

VI.1.2 Turning waste to food: the philosophy and practices of Freeganism

Tsai-Shiou Hsieh, Ph.D. Program in Environmental Psychology Graduate Center, City University of New York, USA tsaishiou@gmail.com

Program

VI.1.3 Urban food habits in Sudan and its impact on the environment and social structures

Mirjam Roeder, Humboldt-University Berlin, Germany, Mirjam.Roeder@gmx.de

VI.1.4 The future of meat consumption: sustainable modernization for Finland?

Markus Vinnari, Finland Futures Research Centre, Turku School of Economics, Finland
markus.vinnari@tse.fi

03:00 to 04:00 PM **Keynote Address:** MIGUEL PETRERE Jr.
Room: VINICIUS/J.GILBERTO - MIRAMAR

04:00 to 04:30 PM **COFFEE BREAK** (*Hotel MIRAMAR*)

04:30 to 05:30 PM **Keynote Address:** KATHERINE McCARTER
Room: VINICIUS/J.GILBERTO - MIRAMAR

05:30 to 07:00 PM **ROUNDTABLE DISCUSSION:** CLAES
ROOM: VINICIUS/J.GILBERTO - MIRAMAR

07:00 to 08:00 PM **Keynote Address:** CORNELIA NAUEN & PIERRE VALETTE
Room: VINICIUS/J.GILBERTO - MIRAMAR

08:00 PM **CONFERENCE DINNER** (*Hotel MIRAMAR*)

October 7, Sunday

08:00 to 09:30 AM **ORAL SESSIONS**

I.5 Traditional People, Biodiversity and Cultural Diversity II

Hotel Debret

Chair: A. C. Diegues, NUPAUB, USP, Brazil, adiegues@usp.br

I.5.7 Socioeconomic diagnosis of Black communities in Bahia - Brazil

Tatiane C. M. Sousa¹ and Mariana Benchimol², ¹Ecologist; ²Brazilian Institute of Education in Sustainable Business, IBENS, Brazil, taticmsousa@yahoo.com.br

I.5.8 The artisanal fisheries at North Bay (Florianópolis, Brazil) and the role of fisher communities in the local conservation.

R.B.M. Aggio and N. Hanazaki, Universidade Federal de Santa Catarina, SC, Brazil, raphael.aggio@gmail.com

I.5.9 Impacts of shrimp farming on salinisation in the Ca Mau Peninsula, Vietnam

Nguyen Tho¹, Nguyen Thanh Hung¹ and Luc Hens² ¹Vietnamese Academy of Science and Technology (VAST), Sub-Institute of Geography in Ho Chi Viet Nam; ²Vrije Universiteit Brussel (VUB), Human Ecology Department, Brussels, Belgium.

ntho@vast-hcm.ac.vn

I.5.10 Filipino Diaspora in Azerbaijan: impact on human ecology, local population and diversity

Ruben Z. Martinez, Organization for Training Research and Development Foundation, Inc. & TERA

Program

IV.2. Searching the Real Values of the Sea: the ECOST Perspective

Room Baden Powell, Miramar

Chairs: P Failler, CEMARE, UK, pierre.failler@port.ac.uk and Serge Collet (CIES, Italy)

V.6 Environmental Degradation

Room: Vinicius, Miramar

Suggested Chair: T Burns University of Oklahoma, tburns@ou.edu

V.6.1 The relevance of political-economic integration for environmental degradation and human health: A cross-national study of industrial organic water pollution and infant mortality in less-developed countries, 1980-2000

Andrew K Jorgenson, Department of Sociology and Anthropology, North Carolina State University, jorgensonandrew@hotmail.com

V.6.2 International Shipment of Hazardous Waste: Some Salient Findings from the Basel Convention Data

Thomas J. Burns and Jesse Fuchs, University of Oklahoma, tburns@ou.edu

V.6.3 Research on groundwater contamination at selected Tsunami relief camps in Nagapattinam, Tamil Nadu, India (2005-2006)

Ashok Kumar C* and Abraham V.A** C.KUMAR@CGIAR.ORG

V.6.4. The Caspian Sea Southern Coasts contamination resources vulnerability and hazardous degree assessment with GIS Modeling

Dr Homayoun Khoshnavan, Caspian Sea Research & Study Center, Water Research Institute, H_khoshnavan@yahoo.com

V.6.5. Quality environment for health and happiness of population in a changing world

Dr. (Mrs.) Shashi Kumar¹ and Dr. (Mrs.) Shashi Saxena² 1- Department of Biology, Institute of Home Economics University of Delhi, India 2- Department of Chemistry, Hans Raj College University of Delhi, India, skhecong@yahoo.com

V.7 Using and Perceiving a Changing Environment

Room: J. Gilberto, Miramar

Chair: R. Purdom, Green Mountain College, USA purdomr@greenmtn.edu

V.7.1 Maasai Journey: Exploring the role of cultural interpreters on zoo visitors' understanding of conservation in East Africa

Mary L Jackson, Audience Research Assistant, Woodland Park Zoo, Seattle, Washington, US mary.jackson@zoo.org

V.7.2 The conflicts between the nature conservation and the innovations from the tourism and summering

Sidnei Raimundo, Escola de Artes, Ciências e Humanidades - Universidade de São Paulo (EACH-USP/Leste), sraimundo@usp.br

V.7.3 Threat to existence of biodiversity in Thar Desert and the necessity of conservation

T.I.Khan, Indira Gandhi Centre for H.E.E.P.S. University of Rajasthan, Jaipur-302004, India tikhan_igc@yahoo.com

V.7.4. Background of understanding climate change issue: a result from group interview on Japanese

Atsuko Kuribayashi, Midori Aoyagi-Usui, Tomomi Shinada, Mariko Kondo, Undergraduate student in Tokyo Metropolitan Area, akuri@nli-research.co.jp

V.7.5 The vulnerability of stakeholder participation in water resources management amid climate change: considerations and solutions for local control

Rebecca Purdom, Green Mountain College, Terrace Hall Office 129, One College Circle, Poulney, VT, USA, purdomr@greenmtn.edu

Program

09:30 to 10:00 AM COFFEE BREAK (*Hotel DEBRET*)

10:00 to 11:30 AM ORAL SESSIONS

II.6 Community-Based Faunal Management

Room: Hotel Debret

Chair: J. Pezzuti, UFPA juca@ufpa.br and G. Rebêlo, UFPA

II.6.1 Hunting activities and faunal conservation in Upper Juruá Extractive Reserve

Rossano Marchetti Ramos, Mauro William Barbosa de Almeida and Alpina Begossi
Prevfogo-Ibama, IFCH-Unicamp, Alpina Begossi – Unicamp/FIFO, alpinab@uol.com.br

II.6.2 The householders and the hunting activity at Tapajós-Arapiuns Extractive Reserve, Brazilian Amazon

Ana Cristina Mendes de Oliveira 1,2; Oswaldo de Carvalho Jr 2; Alexandre Fernandes Silva 1,3. 1 UFPA - Universidade Federal do Pará (cris@ufpa.br), 2 IPAM – Instituto de Pesquisa Ambiental da Amazônia (oswaldo@ipam.org.br), 3 MPEG – Museu Paraense Emílio Goeldi

II.6.3 Involvement of riparians in the hunting activity and its consumption in the Brazilian Amazon

Myrian Sá Leitão Barboza, Núcleo de Altos Estudos Amazônicos (NAEA)/ Universidade Federal do Pará (UFPA), myrianbarboza@yahoo.com.br

II.6.4 Towards the participatory management of aquatic wildlife species of the Lower Amazon floodplain

Juarez Pezzuti, David Gibbs McGrath, Roberta Sá Leitão Barboza, Adriano Martins, George Henrique Rebêlo, Maria do Carmo Gomes Pereira, Marcelo Crossa, Daniely Félix-Silva
juca@ufpa.br

II.6.5 Importance of the freshwater turtles in the feeding of the Amazonian people

Jackson Pantoja Lima¹, Juarez Carlos Brito Pezzuti², Daniely Félix da Silva³, George Henrique Rebêlo¹, Maria do Carmo Gomes Pereira¹, Elienilson Ferreira Bezerra¹ ¹Instituto Nacional de Pesquisas da Amazônia, ²Universidade Federal do Pará ³Universidade Estadual do Rio de Janeiro
jacksonpantoja@yahoo.com.br

III.6 Integrated Analysis of Local Socioecological Systems: Combining Agent-Based and Stock-Flow Modeling Approaches

Room: Baden Powell, Miramar

Chairs: V. Gaube, H. Adensam and R. Matthews, IFF & Macaulay I., Austria & UK
Heidi.Adensam@uni-klu.ac.at

III.6.1 Coalitions and participation in public decisions – an analysis using Behavioral Ecology models

Renata G. Ferreira, PhD in Biological Anthropology (University of Cambridge – UK). Researcher at Pós-Graduação Regional em Desenvolvimento e Meio Ambiente – Universidade Federal do Rio grande do Norte rgf27br@yahoo.com.br

III.6.2 XXI Century ecosystem research: Meeting ecology with sociology. The example of Aysén watershed, XI Region, Chile

Pamela L. Bachmann*, Luisa E. Delgado and Víctor H. Marín
Laboratorio de Modelación Ecológica, Departamento de Ciencias Ecológicas, Facultad de Ciencias, Universidad de Chile. pbachmannv@gmail.com

III.6.3 The foraging and the fishing on riverine communities in the Cabalina's and São Lourenço's lake, Municipality of Manacapuru

ARAÚJO, Lenizi M. S.; FREITAS, Carlos, E. C. Federal University of Amazon – UFAM, Brazil,
Imaraujo@hotmail.com

III.6.4 Ecological restoration amid climate change: The case for historical fidelity

William Throop, Green Mountain College, Pollock Hall 2nd Floor, One College Circle, Poultney, VT ,
ThroopW@greenmtn.edu

III.6.5 Human Ecology and Human Rights: Engendering human ecological approaches from a human rights perspective

Dr. Parto Teherani-Krönner, Humboldt University of Berlin, Faculty of Agriculture and Horticulture,
parto.tehrani-kroenner@agrar.hu-berlin.de

III.6.6 Farm households, agrarian subsidies and land-use change: An integrated analysis of local socio-ecological systems

Veronika Gaube, Heidi Adensam, Julia Lutz, Tina Kaiser, Martin Wildenberg, Andreas Richter, Helmut Haberl
Institute of Social Ecology, IFF Vienna, Klagenfurt University email: veronika.gaube@uni-klu.ac.at

III.7 Temporal and Spatial Cross-Scale Approaches in Human Ecology: Implications for Resource Use from Cultural Evolution and Behavioral Ecology

Room: Vinicius, Miramar

Chairs: K. Demps¹, N. Peroni² and N. Hanazaki³, 1UCDavis, USA, kedemps@ucdavis.edu,
2FIFO, Brazil, peronin@gmail.com.br, 3UFSC, Brazil.

III.7.1 People and landscapes of the region of Lençóis Maranhenses (Brazil) – environmental perception and local management

Fernandes-Pinto, Érika¹ and Saraiva², Nicholas Allain¹, 1BAMA/ Brazilian Institute for the Environment and Renewable Resources, Brazil 2NGO Pivô Maranhão, Brazil
erikalencois@yahoo.com.br

III.7.2 Local population & diversity in a changing world

Dr (Mrs.) Shashi Kumar, Biology Department, Institute of Home Economics (University of Delhi) Delhi, India, skhecong@yahoo.com

III.7.3 If Robert E. Park ever went to Iraq: The fictitious voyage of Robert Ezra Park to the excavation in Ur and Uruk in 1974

Dr. Wolfgang Serbser, German Society for Human Ecology (DG H), serbser@co h-europe.de

III.7.4 Biological considerations on human ecology and natural resources consumption: hazards and opportunities for Homo sapiens sapiens' s sustainability on earth

Marina Christofidis, M.Sc in Environmental engineering (UFSC), Universidade do estado de Santa Catarina, Florianópolis-SC, Brasil, marinambiental@gmail.com

III.7.5 Dynamics of parent-child cultural transmission

Kathryn Demps, Department of Anthropology, University of California, Davis, CA, USA
kedemps@gmail.com

IV. 3 Local Knowledge (LEK/FEK) and the History of Aquatic Ecosystems

Room: J. Gilberto, Miramar

Chair: M. Gasalla, LabPesq, IO, USP, Brazil, mgasalla@usp.br

IV.3.1 Beyond historical records: how industrial fishers perceive changes in marine communities and contribute to detect long-term alterations in the South Brazil Bight

Maria A. Gasalla, Fisheries Ecosystem Laboratory (LabPesq), Instituto Oceanográfico, University of São Paulo, Brazil. mgasalla@usp.br

IV.3.2 Comparative ethnobiology of coastal fisheries in SE Brazil*

Mariana Clauzet¹ and Alpina Begossi² ¹ Doutorado em Ambiente e Sociedade - Universidade Estadual de Campinas, Fisheries and food Institute/FIFO and CAPESCA/PREAC/UNICAMP. Campinas, Brazil. mclauzet@unicamp.br.

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IV.3.3 Coastal Management in the Northern Region of the state of Sao Paulo, Brazil: The economic - ecological perspective

Malta, Flavio J.N.C, University of Taubaté – UNITAU, flaviomalta@terra.com.br

IV.3.4 Of alewife, trout, and lamprey: puzzles for sustainable recreational fisheries in the northeastern United States

Meriel J. Brooks, Associate Professor of Biology, Green Mountain College, Department of Natural Sciences & Mathematics, BrooksM@greenmtn.edu

IV.3.5 Social profile and perception of coastal fishermen communities

Saturni, Fernanda, Cunningham, Patricia and Sayuri, Carolina. Instituto Oceanográfico, Universidade de São Paulo/SP-Brasil. fernandasaturni@yahoo.com.br

IV.3.6 IV. 3. 5 From extrativism to mussel's farming: Study of a north east "community" in Jurujuba, Niterói, Rio de Janeiro.

Doutoranda do Programa de Pós Graduação em Estudos Interdisciplinares em Psicossociologia de Comunidades e Ecologia Social (EICOS/IP/UFRJ).

pritter@bridge.com.br

11:30 to 12:30 PM

Closing ceremony: SHE Business Meeting

ROOM: VINICIUS/J.G ILBERTO - MIRAMAR

Session Themes

I. INDIGENOUS/LOCAL KNOWLEDGE & SUSTAINABILITY

I.1 The Role of Indigenous Knowledge in the Adaptive Process

[October 5, Friday, 8:00-9:30 AM]

Chair: K. Morrison, Lincoln University, New Zealand, Morrison@lincoln.ac.nz

Understanding cultural adaptation with co-evolutionary processes is increasingly recognized as best modeled as a co-operative process between indigenous institutions, governmental institutions and NGOs. A task which remains is to determine the role of indigenous culture in directing the process. Against a far too common presumption that indigenous culture and knowledge is bound to worldviews and so needing exogenous assistance for adaptation, there is increasing evidence that indigenous cultures and knowledge may actually hold the key to inter-cultural adaptation within the co-operative adaptive process. This paper session provides a forum to explore ways in which indigenous cultural practices and knowledge provide for inter-cultural adaptation.

I.2 Sustainability and the Impact of Aid on Indigenous People

[October 5, Friday, 1:30-3:00 PM]

Chair: S. Singh, simron.singh@uni-klu.ac.at

A theme that has largely been under-researched (at least explicitly) within human ecology and anthropology is the impact of aid on rural and indigenous communities and what this means in terms of sustainability. Large parts of the so-called "developing world" are caught within a system of aid with the goal to reduce poverty and to bring about development. Most of these efforts are undertaken by organizations that operate within (rather unfavorable) structures that impel them to be more responsive to the needs of their donors rather than the beneficiaries. The session aims to bring together a selection of case studies that will contribute to our understanding of the impact of aid within the framework of socio-cultural and ecological sustainability. Studies using innovative methodologies that capture the dynamic interaction

I.3 Folk and Indigenous Transformations in the Amazon region: Implications of Contact, Land-Use Schemes and Market Economies

[October 6, Saturday, 8:00-9:30 AM]

Chair: L. Forlineforline@unr.edu

Brazil's Amazon region is undergoing rapid change as we enter the new millennium. Transformations are seen in the area of land utilization and management, indigenous knowledge, and foodways. This session proposes to examine different aspects of how peasant and indigenous communities of the Amazon are coping with rapid change in the face of large-scale land use schemes. Folk and indigenous knowledge of medicinal plants, while receiving much attention in the area of research, is marginalized and quickly vanishing. Similarly, while many communities of the Amazon region are being incorporated into market economies traditional foods are giving way to cash crops and commercial goods. As such, this session will present works that address these issues and the implications of food security and restoring folk and indigenous knowledge.

I.4 Contributions of Fishers' Local Ecological Knowledge and Scientific Research to Marine Mammals' Conservation

[October 6, Saturday, 8:00-9:30 AM]

1 2, 1ENSP/DENSP/FIOCRUZ and 2UNICAMP/FIFO, Brazil Shirley@terraemar.org

The local ecological knowledge (LEK) of fishermen has been applied in several conservation policies and practices related to fishery management around the world. Regarding marine mammals, studies addressing fishermen's knowledge are still scarce. However, they have shown that in most cases their LEK is in high accordance with data obtained from scientific research. Most marine mammal species are poorly known. Some of these species are strongly affected by interactions with fishing gear, which makes fishermen's LEK and cooperation greatly valuable for their conservation. For many threatened species time may be running out and since research on their biology are of long-term duration and generally expensive, the interface between fishermen's LEK and scientific research should be widely explored to allow for expeditious decisions in favor of the protection and conservation of marine mammal species.

Session Themes

I.5 Traditional People, Biodiversity and Cultural Diversity I and II

Chair: A. C. Diegues, NUPAUB, USP, Brazil, adiegues@usp.br
[October 6, Saturday, 8:00-9:30 AM and October 7, Sunday, 8:00-9:30 AM]

In tropical countries, traditional peoples are becoming a crucial factor for biological conservation as many of them live in areas of high biodiversity. It has been recognized also that biodiversity is linked to cultural diversity, although these linkages are not yet well analysed. In many of these countries, due to mainstream preservation approaches, some of these communities are being expelled from their traditional territories or are suffering from severe constraints when these territories are transformed in no-take areas. At the same time, some countries are trying to incorporate these communities in conservation through sustainable use categories. This paper session can provide a forum to explore ways to understand the linkages between traditional peoples, their culture and their environment

I.6 Advances in Ethnoecology and Ethnobotany

[October 6, Saturday, 1:30-3:00 PM]
Chairs: N. Hanazaki¹ and N. Peroni², UFSC; 2FIFO, Brazil, natalia@ccb.ufsc.br

Traditional and local knowledge about plant resources, in particular, and environments, in general, are the subjects of this session. This session aims to discuss topics related to ethnoecology and ethnobotany approaches, including discussions about: which questions are we trying to answer? Which methods and tools are suited for such questions? How can these approaches be applied to local development in a changing environment? Contributions about new methodological approaches are welcome.

II. DIVERSITY AND MANAGEMENT

II.1 Shifting Cultivation and Tropical Forests in a Changing World¹

[October 5, Friday, 8:00-9:30 AM]
Chairs: C. Adams and R. Murrieta, USP, Brazil, cadams@usp.br

Indigenous agroforestry management systems are dynamic and influenced by changes in the social, political, economic, land tenure, technological, demographic and ecological contexts. These changes have been accelerated by political and economic globalization. In addition, indigenous peoples' growing participation in redefining and constructing what is considered ecologically sound, as well as socially desirable, is creating a tense and creative discussion upon the definition of swidden cultivation and its role in the transnational environmentalism. Thus, this paper session aims to create an arena for ethnographically informed and theoretically diversified contributions to our understanding of the multiple dimensions of swidden cultivations practices around the world and its role in the sociocultural, ecological and political-economic landscapes of the XXI century.

II.2 Agroecology and Sustainable Rural Development

[October 5, Friday, 8:00-9:30 AM]
Chair: M. Habib, Instituto de Biologia & PREAC, UNICAMP, Brazil, habib@reitoria.unicamp.br

Agroecology can be defined as the application of ecological concepts and principles to the study, design and management of sustainable food systems that are productive, natural resource conserving, culturally sensitive, socially just and economically viable. This session will discuss examples that show how farmers, communities and researchers are rescuing and developing experiences in ecology-based agricultures in an interactive way.

II.3 Contributions of Human Ecology to Understand and to Manage Artisanal Fisheries

[October 5, Friday, 10:00-11:30 AM]
Chair: R. Silvano, UFRGS/FIFO, Brazil, renato.silvano@ufrgs.br

Artisanal fisheries are an important source of food and income to several human populations worldwide. One of the challenges to manage such artisanal fisheries consist on gathering adequate scientific knowledge on fishing resources and fishery dynamics. Studies of Human Ecology and Ethnobiology can provide invaluable insights to improve our management systems over the short term.

¹Articles from this session are planned to be published in a special volume of Revista do Museu Paraense Emilio Goeldi, after review.

Session Themes

II.4 Diversity and Management: from Extractive to Farming systems¹

[October 5, Friday, 1:30-3:00 PM]

Chairs: L. Hens and A. Begossi, VUB/Belgium and UNICAMP/FIFO/Brazil, pevdborr@vub.ac.be

We approach extractive and farming systems and their implications concerning production and sustainability. This workshop adopts an interdisciplinary framework that includes cultural, ecological, social and economic processes. We include studies on perceptions and complexity of culture, on coastal systems, shrimp production, plant and agrobiodiversity, aquaculture, local knowledge, management and mismanagement. The outcome provides an interesting example of the added value of interdisciplinary research on environmental problems.

II.5 Environment and Agriculture

[October 6, Saturday, 8:00-9:30 AM]

Chair: E. Shoreman, Boston University, USA, shoreman@bu.edu

Agriculture and the environment have always been inextricably linked to one another. Today, the tension between international trade and global environmentalism is revealing the effects of globalization on local ecologies and rural populations. This session welcomes papers on the junction between agriculture and the environment and how local-level actors reconcile their economic and domestic needs with their environmental constraints. Relevant issues include rural social movements, local-level commodity production, sustainability, community natural resource management (CNRM), and the environmental politics of international trade.

II.6 Community-Based Faunal Management

[October 7, Sunday, 10:00-11:30 AM]

Chair: J. Pezzuti, UFPA, juca@ufpa.br and G. Rebêlo, UFPA

The management of natural resources should include wildlife use and conservation. Particularly in the neotropics, game species plays an important role as a source of high quality protein for all kind of rural human populations. Classical laws and their authoritarian interpretation have been one of the most frequent and unsuccessful strategy, putting the State against local communities. The illegality makes difficult any assessment of pressure levels and the impact of game hunting on game species populations. In this section, four experiences of community based wildlife and fisheries management from different parts of the Amazon Basin are presented.

III. DIRECTIONS IN HUMAN ECOLOGY

III.1 Human Ecology and Health

[October 5, Friday, 8:00-9:30 AM]

Chair: F. de Ávila-Pires, UFSC/VUB, Brazil, favila@matrix.com.br

This session will attempt to present an overview of Human Ecology and its relationships with animal health, in special the zoonoses, with a discussion of theories and methods of field research. Case studies will illustrate the new trends in studies of urban geography and sociology of selected zoonoses.

III. 2 Behavior and Ecology: Psychology Looks at Mind and Nature

[October 5, Friday, 10:00-11:30 AM]

Chair: G. Myers, Jr., WWU, USA, gmyers@cc.wwu.edu or Gene.Myers@wwu.edu

This paper session will feature analyses of conservation challenges that include a focus on psychological variables and/or individual behaviors. The such behaviors include political, consumer or direct ecosystem actions. Sense of place, development, cognitive models, emotion and ecological experience are psychological dimensions. This session will illustrate the field of conservation psychology and its relations to human ecology.

²Articles from this session will be published in a special volume of Environment, Development and Sustainability, in press.

Session Themes

ROUND TABLE 1: SESSIONS III. 3 & III.4

[October 5, 5:30-7:00 PM]

III.3 New Directions in Human Ecology - Higher Education for Sustainable Development

Chairs: W.Serbser¹ and J. Mrzljak², ¹German Society for Human Ecology (DGH), ²Ecological Society of Germany, Switzerland and Austria (GfÖ), Germany, wolfgang.serbser@alumni.tu-berlin.de

For this session we invite short reports from different parts of the globe about new perspectives, concepts and curricula of Human Ecology study programs. In the round table discussion, following and around the presentation, the focus is laid on latest developments and new directions in Human Ecology education. Continuing the round table of the last SHE conference in Bar Harbor the session should encourage a regular annual exchange of scholars involved in Human Ecology study programs. In the both parts of this session contributions of these programs to the UN-Decade "Higher Education for Sustainable Development" should be pointed out.

III.4. At-Distance Education in Human Ecology: Opportunities and Challenges

Chair: R. Dyball, Convener Human Ecology Program at the Fenner School of Environment and Society, Australian National University, Australia, rob.dyball@anu.edu.au

The 'ecological signature' of a society can often be traced to the socially normalized values of the dominant culture. A major challenge in teaching Human Ecology can be getting students to recognize and critically reflect upon these normalizing structures because they are so deeply embedded in them. One way to expose the contextual nature of socially constructed 'normal' is to immerse the students in a culture different to their own through overseas study programs. Transformative though these distance education experiences can be, there are substantial barriers of time, resources and financial cost, as well as the environmental effect of international travel itself. The purpose of this session is to see if the transformative potential of international exchange can be harnessed through well designed at-distance education. The session starts with some short papers on key pedagogical principles for sustainability education, on the potential (and limitations) of international exchange in sustainability education, and on the strengths and weaknesses of at-distance education. The session then moves into workshop format to see if it is possible to generate a syllabus and mode of delivery that engages students and staff in a program of collaborative and transformative international teaching and research at-distance.

ROUND TABLE 2: CLAES

[October 6, Saturday, 5:30-7:00 PM]

III.5 Co-managing Common-Pool Resources: Challenges and Advances

[October 6, Saturday, 10:00-11:30 AM]

Chairs: C. Fudemma¹ and C. Seixas², ¹UFSCar; ²FIFO, Brazil, cfudemma@uol.com.br

In the last three to four decades, since the publication of "Tragedy of the Commons", the amount of work on common-pool resources (CPR) has steadily increased worldwide, which have contributed to advancement of human ecology. Resource-based or ecosystem-based have been the focus of those studies that deal with issues of scale-spatial and temporal-and diversity of society that use and manage these resources. The main objective of this session is to address challenges and main advances of the study CPR in regard to human ecology.

III.6 Integrated Analysis of Local Socioecological Systems: Combining Agent-Based and Stock-Flow Modeling Approaches

[October 7, Sunday, 10:00-11:30 AM]

Chairs: V. Gaube, H. Adensam and R. Matthews, Heidi.Adensam@uni-klu.ac.at

Trajectories of local socioecological systems depend on both socioeconomic and natural drivers. Progress in integrated land-system science, as envisaged in the science plan of the Global Land Project, vitally depends on our ability to understand society-nature interactions. New modelling approaches that combine stock-flow approaches with agent-based modelling methods are currently being explored in many places as a useful tool in such integrated analyses. In particular, such approaches are helpful to integrate results from approaches traditionally used in place-based human-ecological research, e.g. analysis of land use, materials and energy flows, time use, demography, institutions, societal organization, and so forth. Integrated models that can evaluate effects of policy changes on land use, nutrient flows, harvest, farm income, and other relevant features of local land systems are also highly useful in participatory processes that help local stakeholders in the evaluation of future options and policy design. This session will discuss research and conceptual papers that present innovative modelling approaches to further understanding of this emerging field.

Session Themes

III.7 Temporal and Spatial Cross-Scale Approaches in Human Ecology: Implications for Resource Use from Cultural Evolution and Behavioral Ecology

[October 7, Sunday, 10:00-11:30 AM]

Chairs: K. Demps¹, N. Peroni² and N. Hanazaki³, 1UCDavis, USA, kedemps@ucdavis.edu, 2FIFO, Brazil, peronin@gmail.com.br, 3UFSC, Brazil.

This session aims to join both temporal and spatial cross scale approaches in human ecology studies, using both historical ecology and landscape concepts. Cross scale approaches can reveal important information and new insights to our understanding of human environment relationships. The structures of different decision making processes affect our prediction and understanding of human-ecosystem interactions. For example, deciding to learn ecological knowledge for oneself versus from an elder or kin, or deciding which ecological strategy to adopt based on its attractiveness to increase prestige or reproductive success. This session will integrate research from cultural evolution theory, human behavioral ecology, and cultural ecology to understand how decisions like these affect patterns of resource use.

IV. MARINE AND COASTAL MANAGEMENT

IV.1 2nd LOICZ Symposium on “Social-Ecological Systems Analysis”³: Understanding Complex Social-Ecological Dynamics: Integrating different geographical scales in coastal systems¹ Sessions I, II, and III

[October 5, Friday]

Chairs: Bernhard Glaeser¹, Marion Glaser, Michael Orbach, 1bglaeser@wzb.eu, 2Marion.Glaser@zmt-bremen.de

In coastal regions all over the globe, transformation, transition and change are determined by interactions between humans and nature. Natural and societal dynamics therefore need to be considered in conjunction. This session is a follow-up of the LOICZ symposium “Social-ecological Systems Analysis: The Way forward in the Anthropocene?” conducted for Priority Topic 1 “SES Analysis” in Beijing, May 2007. It will assess, compare and attempt to integrate possible future transformations of coastal social-ecological systems (SES) and their analysis capacities. The analyses presented in this session adopt the view that human nature relations are best understood by considering them as complex social-ecological systems. This provides the basis to position the increasingly dense and intensive interrelations between humans and coastal ecosystems at the centre of our investigations.

IV.2. Searching the Real Values of the Sea: the ECOST Perspective

[October 7, Sunday, 8:00-9:30 AM]

Chairs: P. Failler, CEMARE, UK, pierre.failler@port.ac.uk and Serge Collet (CIES, Italy)

The growing world-wide vulnerability of marine eco-systems demands new solutions in acknowledging – and valuing - ecological, social and economic damages. The ECOST project provides an alternative perspective to redress the glaring shortcomings in the market price-based system, embracing as it does the ecological and cultural attributes associated with marine values. The project seeks to integrate ecological-economic-social complexities and derive values reflecting the real cost of marine resources through an innovative modelling technique reflecting the ecology-human interface of the marine environment. The task is to offer a new decision tool for policy makers across the world. The session commences with a focus on West Africa. Aliou Sall examines the perceptions and cultural constructions of the marine environment as envisaged by fishing communities, while Raul Fernandes analyses the marginalisation and vulnerability of indigenous communities in the marine protected areas of the region. Pierre Morand and Pierre Failler then highlight how a failure to incorporate the human dimension of marine nature can have perverse effects on the task of restoring marine eco-systems. Yet, if the rebuilding of marine eco-systems constitutes a global concern (Joburg 2002), caring for the marine nexus implicitly calls for the adoption of some form of valuation process. A holistic approach is preferable, given the need to connect very diverse conceptual approaches. Four further contributions deal with this arcanum. Catherine and Raphael Larrère consider the social representations of nature that are at stake from a philosophical standpoint centred on Europe, Haoran Pan and Pierre Failler propose a new modelling approach of the human-marine environment interface which is at the heart of the ECOST Project, while Francis Laloe questions how effectively development indicators reflect societal values. The session concludes with a presentation by Serge Collet on the archaeo-anthropological–ethical valuing approach as related to the sea and marine environment. Costs resulting of the disvaluing and trashing the functions and properties of the marine ecosystems which sustain livelihoods and maritime cultures.

²Articles from this session are planned to be published in a special volume of *Environmental Change*, after review.

Session Themes

IV. 3 Local Knowledge (LEK/FEK) and the History of Aquatic Ecosystems

[October 7, Sunday, 10:00-11:30 AM]

Chair: M. Gasalla, LabPesq, IO, USP, Brazil, mgasalla@usp.br

The interplay of changing aquatic ecosystems and human societies has often been approached through historical research which is particularly relevant to evidence shifting environmental baselines and to reconstruct past ecosystem's states. This paper session will focus on cases where local knowledge (LEK/FEK) can contribute to the understanding of how or why the diversity, distribution or abundance of aquatic life and exploited resources in the waters could have changed over the long term. Successful methodological experiences from different parts of the world describing solutions to address this issue are highly welcome, as well as interdisciplinary surveys outputs. We also call for results showing evidences or relevant hypothesis on the extent of past environmental modifications by humanity (i.e. fishing) and/or climate.

V. POPULATION IN A CHANGING ENVIRONMENT

V.1 Environmental Pollution and Cultural Pollution

[October 5, Friday, 10:00-11:30 AM]

Chair: M. R. Edelstein, Ramapo College of New Jersey, USA, medelste@ramapo.edu

The Impacts of Culture in Addressing and Redressing the Contamination of Place

This session brings together a number of perspectives in order to explore the cultural dimensions of environmental Contamination. Several focus on indigenous impacts and native rights issues in light of environmental degradation. The remainder uses a comparison of Russian and American responses to contamination to explore the roles of Culture.

V.2 Geographic Information Systems and Remote Sensing in Studies of Population and Environment

[October 5, Friday, 1:30-3:00 PM]

Chair: A. D`Antona, ACT/Indiana University/USA and NEPO/UNICAMP/Brazil, adantona@indiana.edu

Geographic Information Systems (GIS) and Remote Sensing have been shown to be valuable research instruments for incorporating spatial analyses in disciplines such as anthropology, sociology and demography. This Session is open to papers that use GIS and satellite imagery to organize, analyze or present data that address or answer theoretical and methodological questions at distinct spatial scales or levels of aggregation that are inherent to interdisciplinary studies of Population and Environment.

V.3 Climate and Culture I and II

[October 6, Saturday]

Chairs: S. A. Crate¹, K. E. Halvorsen², D. C. Natcher³ and R. Taddei⁴; ¹George Mason University, USA; ²Michigan Technological University, USA; ³University of Saskatchewan, Canada; ⁴Columbia University and International Research Institute for Climate and Society, U.S.A.

This session explores community understandings of and responses to environmental change, in this case, specifically focusing on the effects of global climate change (GCC). "Community" is defined broadly and can be based upon ethnicity, geographic location (ie, New Orleans), indigenous/non-indigenous, spiritual orientation, income-level, socio-economic class, etc. Our objective is to explore a wide range of vulnerable/marginalized populations who are and increasingly will be affected by GCC in order to understand how they already are and potentially can adapt and also to explore how mitigation efforts can be effective. Additionally, we invite papers that include some discussion of our roles as social scientists as we confront the local effects of GCC with our research partners. Papers are welcomed that discuss these issues in any world location and under the gamut of social science perspectives.

V.4 Culture Nurturing Nature: A Chance for (Environmental) Change

[October 6, Saturday, 10:00-11:30 PM]

Chair: J. G. Marques, UEFS, Brazil, gmarquesuefs@gmail.com

The evidences linking biodiversity and cultural diversity as related phenomenon are increasing worldwide and a debate about the positive or negative correlation between them is being maintained in the academic arena, as well as a concern about the conservation implications of the mutual co-occurrences. The role of local knowledge, beliefs, behaviours and feelings is of crucial importance for a better understanding on how changes affect and will affect the environment quality and in this context anthropogenic landscapes, vanishing languages, vanishing peoples and popular thoughts are of particular interest. Thus, this paper session aims to create an arena for evidences reinforcing the mutual relationships between biodiversity and cultural diversity and to discuss the nature of this biocultural phenomenon, mainly shedding light over the potential that cultural heritage has to change for better the environmental quality.

Session Themes

V.5 Adaptive Co-Management: Building Resilience in Local Management Systems

[October 6, Saturday, 1:30-3:00 PM]

Chairs: C. S. Seixas¹ and C. Fudemma² ; 1FIFO; 2UFSCAR, Brazil; csseixas@hotmail.com

Adaptive co-management has the potential to build resilience in local management system. This session aims to examine the governance structure of local management systems from different parts of the globe in order to discuss factors that foster or hinder adaptive co-management arrangements and factors that contribute to build resilience in co-management systems. Adaptive co-management is a recent concept used to describe governance systems of natural resources that involves collaboration between two or more parties (usually government and civil society) and provides mechanisms for learning and adaptation in light of feedbacks. Resilience is the capacity of a system to absorb disturbance and maintain its structure and function - a key concept in approaching sustainability. Adaptive co-management has the potential to build resilience in local management system. This session aims to examine the governance structure of local management systems from different parts of the globe in order to discuss factors that foster or hinder adaptive co-management arrangements and factors that contribute to build resilience in co-management systems.

V.6 Environmental Degradation

[October 7, Sunday, 8:00-9:30 AM]

Chair: T. Burns University of Oklahoma
tburns@ou.edu

V. 7 Using and Perceiving a Changing Environment

[October 7, Saturday, 8:00-9:30 AM]

Chair: R. Purdom, Green Mountain College, USA purdomr@greenmtn.edu

VI. FOOD AND ENVIRONMENT

VI.1 Environmentally Significant Consumption (ESC): Emphasis on Food

[October 6, Saturday, 1:30-3:00 PM]

Chair: M. Vinnari, TSE, Finland, markus.vinnari@tse.fi

The session concentrates on work that aims to change environmentally significant consumption behaviors especially in the case of food consumption. The session will cover and analyze trends and patterns for achieving sustainable development in the case of food. Especially papers that examine possible solutions and their implications, and then make recommendations for implementing those solutions in the case of sustainable food consumption are welcomed.

OCTOBER 5, FRIDAY

10:30 to 03:00 PM *CONVÉS, Hotel MIRAMAR***1 The shaping of the institutional design of marine protected areas to Tenerife, Canary Islands, Spain: governance and sustainability**

Karyn N. Rodrigues Henriques

University of La Laguna, Canary Islands, Spain, khenri@ull.es

2 Analysis of the fish catch composition of small-scale fishing communities from the lower Tocantins River, Brazilian Amazon: contributions to fisheries management

Gustavo Hallwass a,b, Priscila MacCord c, Renata P. Lima b, Renato A.M. Silvano b (orient.), Anastácio A. Juras d e José A.C. Andrade d

a Undergraduate student in Biological Sciences, UFRGS (guswass@yahoo.com.br), Porto Alegre, RS

b Dep. Ecologia, UFRGS, Porto Alegre, RS

c Pós-Graduação em Ecologia da Unicamp, Fisheries and Food Institute (FIFO), Campinas, SP

d Eletronorte, Brasília, DF

3 Ethnoecology and diet of snook (*Centropomus* spp., Centropomidae) in artisanal fishing communities of Ubatuba, São Paulo, Brazil

Oliveira, L.E.C. & MacCord, P.

Universidade Estadual de Campinas, Brazil, aeroleco@yahoo.com.br

4 Artisanal fishery from Colombian Caribbean coast: fishermen perception of problems and solutions

Juan Pablo Caldas A.1 and Camilo B. García2

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2 Departamento de Biología, Universidad Nacional de Colombia, A.A. 14490, Bogotá, Colombia. cbgarcia@unal.edu.co

5 Using traditional knowledge from artisanal fishers of the Colombian Caribbean coast to identify the evolution of their activity: ¿"old times, always better"?

Juan Pablo Caldas A.1 and Camilo B. García2

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6 Agricultural intensification and demise of shifting cultivation system among quilombola populations in the Ribeira Valley, BrazilMunari, L.C.^{1,2}, Pedroso-Jr, N.N.^{1,2}, Murrieta, R.S.S.^{1,2}, Taqueda, C.S.^{1,2}, Navazinas, N.D.² & Ruivo, A.P.²¹ Departamento de Ecologia, IB-USP² Laboratório de Estudos Evolutivos Humanos, Departamento de Genética e Biologia Evolutiva, IB-USP. lmunari@gmail.com**7 Mangrove Forests Adjacent to the Garapúa Village (Bahia, Brazil): Conservation and sustainability**Pellegrini^{1,2}, J. A. C.; Soares^{1,3, 5}, M. L. G.; Castro^{4, 5}, E.M.N.V.

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4 Professor Adjunto Faculdade de Educação - UERJ.

5 Programa de Pós-Graduação em Meio Ambiente - PPG-MA/UERJ.

8 Indigenous Perceptions of a Changing World: governance challenges in the Bijagós' Archipelago, (Guinea-Bissau, West Africa)Oliveira, Mariana¹; Borrini-Feyerabend, Grazia² & Vasconcelos, Lia¹¹ Faculdade de Ciências e Tecnologia - Universidade Nova de Lisboa; oliveira.mariana@gmail.com; ltv@fct.unl.pt² Cenesta, IUCN/CEESP - Theme on Governance, Equity and Rights; gbf@cenesta.org

9 Experience of fishing co-management in the South Coast of São Paulo State, Brazil

Lucena, Alineide.1; Mendonça, Jocemar Tomasino2; Machado, Ingrid Cabral3

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2, 3 Instituto de Pesca - SAA-SP.

10 Medicinal and food plants use in relation with environmental and socio-cultural factors (Córdoba, Argentina)

12Arias Toledo, B.; 13Colantonio, S. & 13Galletto, L.

1 Universidad Nacional de Córdoba, Argentina.

2 Becario CONICET

3 Investigador CONICET

11 Ethnoecology and resources for a Lavras Novas community – Minas Gerais – Brazil

Luciana P. M. Brandão; Lívia H. Diniz; Luziana Garuana; Flávia P. Nunes and Adriana Lessa-Viana

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12 XXI Century Ecosystem Research: Meeting Ecology with Sociology. The example of Aysén watershed, XI Region, Chile

Pamela L. Bachmann*, Luisa E. Delgado & Víctor H. Marín

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13 Communitary management of Chelonia in the lower Amazon Region through empirical knowledge

Roberta Sá L. Barboza1,a, Clarissa M. Knoechelmann2, b, Juarez Carlos B. Pezzuti3,c

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14 Indigenous perceptions of a changing world: governance challenges in the Bijagós' Archipelago (Guinea-Bissau, West Africa)

Mariana Oliveira 1, Grazia Borrini-Feyerabend 2 and Lia Vasconcelos 1

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15 Forest Resource Use of Rural Households in the Changing Institutional Context: Some Cases from East African Countries

Gen Ueda

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16 Man x Nature: observing the environmental perception.

Carmen Silvia Machado – doctorate of social ecology

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Tania Maciel – PhD Science Education – Paris V University - Researcher in Social Ecology – EICOS/UFRJ – taniabm@gmail.com

17 Developing environmental education from a coastal lagoon socio-environmental problematics

Marcelo Silveira 1, Marina F. C. Pinto 1 & Vera Lícia Vaz de Arruda 1.

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18 Fishing and conflicts in South Brazil: an ethnoecological approach

Maíra Borgonha 1 ; Áthila Andrade Bertoncini 2 ; Mirtes Cristiane Borgonha 3 ; Leopoldo Cavaleri Gerhardinger 4 And Maurício Hostim-Silva 5.

1 Universidade Federal do Ceará – PRODEMA; 2 Universidade Federal de São Carlos – PPGERN; 3 Universidade Federal de Santa Catarina – MUSA; 4 Associação de Estudos Costeiros e Marinhos dos Abrolhos - ECOMAR; 5 Universidade do Vale do Itajaí – CTTMar. eumaira@gmail.com

19 Knowledge distribution of wood resources in rural communities in Córdoba (Argentina), in relation to informants' characteristics

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20 Characteristics of search pathways of men and women: fungi gathering in a Nahua community (Mexico).

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2 Centro Tlaxcala de Biología de la Conducta, University of Tlaxcala (UAT), Mexico

3 University of Sussex, United Kingdom

21 Popular Knowledge about Medicinal Plants in a population living around the Serra da Capoeira Grande Environmental Protection Area, Pedra de Guaratiba, Rio de Janeiro, RJ, Brasil

Patzlaff, R.G. 1; Peixoto, A.L. 1,2

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22 Preference, food taboos and zoo-therapy of game meat among traditional riverine people of the Tucuruí dam reservoir (Pará – Brazil)

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22B Zoo-therapy, preference and food taboos among traditional fishermen from the Amazon coast

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23 Impact of public policies on islands from the Northeast Coast of São Paulo State, Brazil

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24 Could fishermen habits change because of the big cities proximity?

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25 The importance of the Tupé SD Reserve for the local residents, Amazonas State – Brazil

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26 Diagnosis of the vegetation and the use of frontal dunes during the mullet (*Mugil brasiliensis*) fishing at Pântano do Sul beach, Florianópolis, Santa Catarina, Brazil

T.T. Castellani, B.C. Lopes, J.R.V. Peixoto, L.H.G. Bento, P.S. Godinho, UFSC, Brazil & L.S. Silva, UNICAMP, Brazil - tcastel@ccb.ufsc.br

27 Contributing to an ethnoecological methodology applied to the development of a collaborative management system of natural resources

Silveira, T. C. L.^{1,2}, Bassi, J. B.², Pieve S.M.N.², Kubo, R.^{1,2}, Mello, R.S.P.^{2,3} & Coelho de Souza, G.^{1,2*}

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28 Perspectives of *Schoenoplectus californicus* (C.A. Mey.) Soják use as a source of alternative income in the coastal plain of the state of the Rio Grande do Sul, southern Brazil

Silveira, T.C.L.^{1,3}, Terme, C. M.², Bassi, J.B.³, Fernandes da Luz², L., Kubo, R.^{1,3} & Coelho de Souza, G.^{1,2,3*}

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29 Accidents caused by snakes, bats, and other “insects”: ethnotaxonomy, public health system and conservation in the region of Serra da Jibóia, Bahia, Brazil

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30 Ethnoentomology of the residents of the Pântano do Sul beach, Florianópolis, SC, Brazil

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31 Calorie and protein intake of caboclo households in two Amazonian ecosystems: a comparative analysis.

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32 Food taboos and mammals in Cuieiras River, Amazon, Brazil.

Marilena Altenfelder de Arruda Campos¹, Thiago Mota Cardoso^{1,2}, Gilton Mendes dos Santos³ & Victor Py-Daniel¹

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33 Ethnoichthyology of artisanal fishermen of Pantano do Sul, Florianópolis City – Santa Catarina – Brazil Luziana Garuana and Alpina Begossi

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34 Contributions to the study of changes in the caçara territory of Ilha Diana, regarding the Traditional People National Policy (Brazil, Law N°6.040/2007)

Stori, F.T.(1); Souza, F.A.Z.; Gonçalves, P.S.F.; Hoffmann, P.P.; Maranhão, L.A.; Davanso, M.B.; Marques, L.A.M.; Souza, M.P.R.; Silva, L.G.; Lau, M.C.; Rojas, C.; Martinez, M.; Pinhata, J.M.W.; Tairum, C.A.; Mello, K.

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35 Contributions to the study of the involvement of the caçara community of Ilha Diana (Santos-SP) with the environmental licensing process of the privative port ‘EMBRAPORT’.

Stori, F.T.(1); Souza, F.A.Z.; Gonçalves, P.S.F.; Hoffmann, P.P.; Maranhão, L.A.; Davanso, M.B.; Marques, L.A.M.; Souza, M.P.R.; Silva, L.G.; Lau, M.C.; Rojas, C.; Martinez, M.; Pinhata, J.M.W.; Tairum, C.A.; Mello, K.

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36 The process of commercialization of live bait in Cananéia – SP/Brazil

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37 The live bait fishing in the estuary region of Cananéia – São Paulo / Brazil

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38 The collaborative support of communities along the eastern Pará State coast for the collection of marine mammal data on sightings and stranding.

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39 Pontoporia blainvillei (Gervais & d' Orbigny, 1844) ethnobiology in a community of fishermen in District of Regência, Linhares - ES, southeastern Brazil

Ricardo de Freitas Netto¹; 2 e Salvatore Siciliano³

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40 The 'Boto's legend' and the conservation of Inia geoffrensis (Cetacea: Iniidae)

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41 Territoriality of fishing in an area of the Medium Negro River

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42 Habitabilidade in Ribeirinhas Communities in Médio Solimões

Rodrigues, B.F.i; Carneiro, E.F.1; Rivas, A.A.F.2; Carvalho, M.A.3

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43 Ethnobotany of Caiçara communities of the southern Atlantic Forest (Brazil): diversity and local changes.

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3Fisheries Management and Training Program (CAPESCA, PREAC-UNICAMP), Campinas, Brazil.* email: lgaraujo21@hotmail.com

44 – Traditional agroforestry systems in southern Bahia: its historical, technical and socio-cultural aspects

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Keynote Speakers

OCTOBER 4, THURSDAY

Peter J. Richerson

Institutional Affiliation: Department of Environmental Science and Policy, University of California – Davis

Background: Dr. Richerson was trained as an entomologist and aquatic ecologist. Early in his faculty career he became interested in cultural evolution as a result of a teaching assignment. Together with Robert Boyd he developed a series of mathematical models aimed at understanding human culture as an adaptive, and sometimes maladaptive, system. He and collaborators have recently begun a program of laboratory experiments on cultural transmission and cultural evolution.

Title: Human Evolution and Climate Change: A View From the Past

The human species evolved its present form as recently as 50,000 years ago. Shortly after our African origin, we invaded the rest of the Old World, and eventually every habitable place on earth, using a great diversity of culturally transmitted social and technological adaptations. Why didn't this killer system of cultural adaptation evolve long ago? So many other sophisticated vertebrate adaptations, for example camera style eyes, evolved hundreds of millions of years ago. One possibility is that hominin evolution was driven by the ongoing climate deterioration. Theory suggests that human culture is an adaptation to high frequency, high amplitude environmental variation. Paleoclimatologists are rapidly generating a high resolution picture of past climates. The paleoclimatic record of increasing climate variation in the Plio-Pleistocene bears a striking resemblance to the increasing brain size and cultural sophistication of hominins. Current global warming should alarm us in part because of its potential to trigger abrupt high amplitude variation such as we see in the paleoclimate record. Our modern complex societies evolved under the comparatively stable climates of the Holocene and may prove vulnerable to abrupt, large amplitude changes.

Karl Reinhard

Institutional Affiliation: School of Natural Resources, University of Nebraska - Lincoln

Background: Karl Reinhard is a Pathoecologist and searches for the causes of modern human pathology in the archaeological record. He reconstructed the emergence of prehistoric parasitism in North America and traced the influence of parasitic disease and environmental collapse on the decline of prehistoric Native American health. More recently, he is applying data regarding prehistoric diet to understanding the evolutionary basis of type II diabetes in Native Americans. He received his Bachelors degree in Anthropology from the University of Arizona, his Masters degree in Evolution and Ecology from Northern Arizona University, and his Ph.D. in Environmental Archaeology from Texas A&M University.

Title: Evolution of Native American Diabetes: 10,000 years of Adaptation to the Desert Environment

The "thrifty gene" hypothesis relating to prehistoric diet has been used for many years to explain the high levels of diabetes in the American Indian tribes in the Southwest USA. However, the actual diet of ancient people is unknown. Since 1981, Dr. Reinhard has collected dietary data from Southwestern USA and central Mexico sites by analyzing coprolites (ancient feces). These data have reveal 10,000 years of dietary development in four major ecological areas: Sonoran Desert, Coahuiltecan Desert, Colorado Plateau, and Great Basin. The data include hunter-gather and agricultural sites. Some 70 wild plants are documented in the data. All have low glycemic indices. However, the most common foods include desert succulents such as prickly pear cactus, yucca, and agave. The physiological studies show that foods from these plants have an inhibitive affect on digestion. The data suggest that a diet high in desert succulents over 10,000 years may be the evolutionary force that fixed the thrifty gene at high levels in Southwestern USA tribes.

Keynote Speakers

OCTOBER 5, FRIDAY

Emilio Moran

Institutional Affiliation: Environmental Sciences, and Geography at Indiana University, Bloomington

Background: Emilio F. Moran received his Ph.D. and M.A. at the University of Florida. He has been Professor of Anthropology, Environmental Sciences, and Geography at Indiana University, Bloomington, Director of the Anthropological Center for Training and Research on Global Environmental Change (since 1992), and co-director of the Center for the Study of Institutions, Population, and Environmental Change (since 1996). He is the author of 7 books, 12 edited volumes, and over 135 articles. His most recent book, "People and Nature" was published by Blackwell in 2006.

Title: Dynamics and Trajectories of Land use and Land Cover Change in Amazonia

In this presentation I will make use of data from satellite remote sensors from 1970 to 2001, demographic census data, and household surveys in three regions of Amazonia, in order to examine the dynamics and trajectories of land use and land cover change—and how our understanding is shaped by the level of analysis undertaken. My argument is as follows:

1) At the scale of the Basin, the pattern of deforestation and land use we observe is largely a product of road-building and colonization which promoted large-scale inter-regional migrations. At this scale exogenous processes are dominant, such as the surge in deforestation in 1995 following the stabilization of the economy and inflation following the real. At this scale, too, what happens in the state of Pará is what drives the statistics for the whole Basin.

2) Inter-regionally, the patterns of deforestation we see in the three regions that we will focus on, vary from what we see in the Basin, and the differences are explained by initial conditions in the biophysical environment, the history of settlement, the magnitude of migratory flows, and the price of major commodities cultivated in each region. In some cases, we see major drops in deforestation that are missed in the Basin-level data—thereby missing the opportunity to learn how some local areas were able to make a transition to low deforestation

3) Intra-regionally, the variability increases further, now driven by more complex local variables such as the relationship between settled areas, the institutions that arise locally to organize the population, land titling, and government interest or not in the region temporally.

4) Finally, at the level of the individual property the variation in the dynamics and trajectories of change are explained by differences in management by household heads, the microvariability of biophysical factors, and the use of labor, technology, and capital—including access to credit sources and diversity of the portfolio.

Almo Farina

Institutional Affiliation: Institute of Biomathematics, Urbino University, Italy

Background: Doctor in Natural Sciences at Pisa University (1974), Professor of Ecology in Urbino University, and chair of a Working Group in Theoretical Ecology (GLET: <http://www.uniurb.it/glet>) the interest in ecological realm ranges from eco-ethology of vertebrates to the recent interest in the ecology of human societies.

Major themes considered during 30 years of research and educational involvement:

Eco-ethology of vertebrates, Landscape ecological studies, Land abandonment of upland areas and effects on landscape and fauna, GIS and expert systems for wildlife management. Relationship between birds and landscape, Landscape changes and effects on biodiversity. Development of new theories in landscape ecology: an epistemological approach Cognitive landscape ecology a new synthesis from the organism point of view. Eco-semiotic approach in the study of landscape complexity with particular focus on the bird soundscape. Theoretical approach to study the complexity of human dominated ecosystems with special emphasis on the application of biosemiotics to social dimensional of human biology.

Title: Integrating Ecological Theories in Human Ecology: Toward the Ecology of Human Societies

Ecology has developed a great number of principles, applications and tools able to satisfy most of the human thirst of knowledge, but this science is not yet able to prevent completely the effects of recent energetic and cultural models that humanity has unwillingly superimposed to the natural complexity.

In fact, humanity utilizes only a part of the available ecological knowledge and the dramatic consequence of human activity on the worldwide climatic systems is one of the unequivocal examples of the undeniable failure of such transferring process.

The increasing demand for energy, goods and services in the name of an expected economic improvement of people and societies imposes new challenges to policymakers. Most of the economic models require an increasing use of energy and goods although economists complain for a sustainable framework able to assist such paradox. At the same time, models produced by ecologists stress mostly on the necessity to separate people from nature adopting the principle that the actual

Keynote Speakers

human intrusion is enough to guarantee the functioning of “Nature”.

The aim of this paper is to propose new epistemological models able to face the uncertainty created by the interactions of natural and human systems more efficiently and to verify the possibility of better transferring the advancements of the ecological principles to the everyday human life through the enlargement of theories and models that belong to other scientific domains such as information, cybernetics, bio-semiotics, information and cognitive sciences.

The human well-being, defined as the accomplishment of all the necessary resources to satisfy material and un-material human needs, is proposed as a key model able to reconnect human action to natural processes, assuming that such human well-being, when ethically obtained, guarantees a healthy environment.

OCTOBER 6, SATURDAY

Miguel Petrere Jr.

Institutional Affiliation: Departamento de Ecologia, UNESP, Rio Claro, SP, Brazil.

Background: Miguel Petrere Jr. is doctor in Biology at University of East Anglia , UK(1982), Professor of Quantitative Ecology, Fisheries and Biostatistics atUNESP - School of Ecology. His interests in ecological realm ranges fromFisheries, Bio-diversity to fish community ecology studies.

Title: Amazon inland small-scale fisheries: present level of exploitation, social and economic aspects, management options and perspectives for sustainability

The Amazonian small scale fisheries are characterized by employing several types of fishing gears, by a strong dependence of traditional knowledge to spot the fish, and by a large number of exploited species. This is a distinct contrast to large commercial marine fishing operations which are much more homogeneous and focused on a more limited number of target species. Additional complexity is generated by the presence of different kind of resource users, with distinct fishing strategies and different behavior in relation to resource conservation and environmental protection. In the last three decades, several management measures have been implemented by Brazilian government agencies aiming at regulating the Amazon fisheries. In this paper, we make a review on the Amazon fisheries, including a description of the environment and fishing grounds, the main exploited species and its exploitation status, social-economic aspects of the fisheries and fishers discussing management options and perspectives of sustainability.

Katherine S. McCarter

Institutional Affiliation: Executive Director of Ecological Society of America

Background: Katherine McCarter is the Executive Director of the Ecological Society of America, the largest professional society of ecologists representing nearly 10,000 scientists, researchers, policy-makers and managers from more than 60 countries. She is also Publisher of the ESA's four highly regarded and top cited journals. Prior to joining ESA in 1997, she was the Associate Executive Director of the American Public Health Association and also held other public health positions in governmental agencies and with professional and voluntary health associations. She has a Masters degree in environmental health from the Johns Hopkins School of Hygiene and Public Health in Baltimore Maryland and a BA in biology from Cedar Crest College in Pennsylvania. She serves on the Board of Directors of the Council of Engineering and Scientific Society Executives and on its Executive Committee as Secretary of the Society.

Title: Diverse People for a Diverse Science

The Ecological Society of America has made a commitment to diversify and advance the profession of ecology through opportunities that stimulate and nurture the interests of underrepresented students. This presentation will highlight the strategies utilized by ESA in its high profile SEEDS program which include mentoring programs, fellowships, campus ecology chapters and travel and field trip opportunities. The Society also reaches out to scientists internationally to enhance participation in ESA and to bring international perspectives to Society publications and programs.

Cornelia E. Nauen and Pierre Valette

Institutional Affiliation: DG Research, European Commission

Background: Dr. Cornelia E. Nauen was trained as a marine ecologist and fisheries scientists starting her research in Germany at the Institute of Marine Research in Kiel. She worked for more than 25 years in international cooperation

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in different positions in FAO and the European Commission. She has been associated with the development of public knowledge goods, such as FishBase (www.fishbase.org) and is interested in increasing the beneficial impacts of public investment in international scientific cooperation.

Dr. Pierre Valette is a mathematician and economist from the universities of Paris and Toulouse and the Institut National des Sciences et Techniques Nucléaires of Paris. He is an official of the European Commission, where he is currently of the economic and social research activity of the 7th Research Framework Programme. He has been previously in charge of the Environment and Sustainable Development research as well as of the Energy research strategy.

Title: New collaborative research opportunities in the social and economic sciences and humanities

The beefed up EU Research Programme in Social and Economic Sciences and in Humanities is now giving emphasis not only to disciplinary issues in Europe and other parts of the world, but also promotes linking human activity and the environment in an integrated way to support transitions towards sustainable development. Climate Change is an area, par excellence, which needs to be tackled in such integrated ways. In this context, long-term issues related to the post carbon society or the adaptation of our societies to Climate Change will be addressed. More specifically for Latin America, land use issues in relation to mutual dependencies between traditional sectoral perspectives in the water-energy-agriculture-forestry continuum associated with social and economic perspectives could be a major subject of interest.

Foresight is an activity which fits clearly with this kind of research. It should provide scenarios or visions for long-term futures which should help improving the assessment of human impact and the capacities of societies to prevent abrupt change or adapt themselves to unfolding change. Global Earth Observation (GEO) is an initiative which can contribute to better knowledge of the physical aspects of these impacts and use this in more integrated research and management approaches.

These developments and new research opportunities are informed, among others, by sectoral reviews of international cooperation and insights into how the pursuit of scientific knowledge could have greater impact in society. Interdisciplinary approaches to science that are moreover critically engaged with societal actors come out as particularly important for iterative processes leading to robust solutions.

Security Tips

- Do not expose your belongings and leave them unattended
 - Stay close to streets that are close to the beach
- Avoid walking through the neighborhood alone, especially through the more isolated areas (such as to the West side)
- Do not react abruptly in case you are approached by strangers.