



# HUMAN ECOLOGY

International Conference  
on Human Ecology

## HUMAN RESPONSIBILITY AND GLOBAL CHANGE

Local and Global Application  
of Human Ecology.

Conference Themes:

GLOBAL CHANGE

POPULATION AND FOOD RESOURCES

HUMAN HEALTH AND ENVIRONMENTAL CHANGES

TRANSPORTATION AND SOCIETAL DEVELOPMENT

ECOLOGICAL VALUES AND ECOLOGICAL ECONOMICS

STRATEGIES IN RESEARCH, EDUCATION AND ACTION

**Göteborg 9-14 June, 1991**

**Conference programme**

**International Conference on Human Ecology  
9-14 June 1991**

**HUMAN RESPONSIBILITY AND  
GLOBAL CHANGE**

**Local and Global Application of Human Ecology**

**Human Ecology  
University of Göteborg**

**International Conference on Human Ecology**  
**9-14 June, 1991 in Göteborg**  
**HUMAN RESPONSIBILITY AND GLOBAL CHANGE**  
**Local and Global Application of Human Ecology**

Arranged by: The University of Göteborg, The Royal Swedish Academy of Sciences, The Nordic Society for Human Ecology (NSHE), The Foundation The Natural Step and The Folksam Research Foundation (Folksam Insurance Group).

In collaboration with: The Society for Human Ecology (SHE), The European Association for Human Ecology (EAHE), The Commonwealth Human Ecology Council (CHEC), The Commission of Human Ecology (IAUES), Deutsche Gesellschaft für Humanökologie (DGH), and the Institute of Physical Resource Theory, Chalmers University of Technology.

In conjunction with: The 5th International Meeting of SHE.

Scientific Advisory Committee:

Cristina Bernis, Madrid  
Stephen Boyden, Canberra  
Thomas Dietz, Fairfax, VA  
Bernhard Glaeser, Berlin  
Frank B. Golley, Athens, GA  
Torsten Hägerstrand, Lund  
Ann-Mari Jansson, Stockholm  
Ulrich Loening, Edinburgh  
Paolo Machado, São Paulo  
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Mike Pugh Thomas, Salford  
Claes Ramel, Stockholm  
Suzanne Sontag, East Lansing  
Dieter Steiner, Zürich  
Charles Susanne, Bruxelles  
Tsuguyoshi Suzuki, Tokyo  
Anthony Vann, Huddersfield  
Napoleon Wolanski, Warszawa  
Gerald Young, Pullman, WA

Organizing Committee:

Bengt-Owe Jansson and Kerstin Lindahl-Kiessling, *The Royal Academy of Sciences*  
Torsten Malmberg, *The Nordic Society for Human Ecology*  
Karl-Henrik Robert, *The Foundation The Natural Step*  
Karl-Erik Eriksson and Britta Jungen, *The University of Göteborg*

Secretariat:

Scientific secretary: Maj-Lis Follér.  
Assistants: Eina Hagberg, Carin Johansson and Marie Thynell.

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# Sunday 9 June

**15.00 Registration**

**18.00 Cultural Evening in the Concert Hall**

Introductory speeches on natural resources and their use in society over time, changing views concerning nature and society and the ecology of ultimate concern.

Welcoming addresses.

**Speakers:**

Jan Nilsson, Vice-Chancellor, University of Göteborg.

Hans Dahlberg, Folksam and The Natural Step.

Kerstin Lindahl-Kiessling, Royal Swedish Academy of Sciences.

Gerald Young, Society for Human Ecology, USA.

Bengt Mollstedt, City of Göteborg.

Moderator: Emin Tengström, Human Ecology, Göteborg.

**Music:**

Winduo

Anders Hagberg, Yasuhito Mori.

(see special programme)

**Ballet:**

Dancers from Storan, the Gothenburg Opera House perform five short ballets.

(see special programme)

**20.00 Reception** arranged by the City of Göteborg at the Concert Hall.

**21.00 End.**

## Monday 10 June

**8.30 Plenary session** Room: Palmstedtsalen

### **Global Change**

Chair: Torsten Malmberg, Lund, Sweden.

#### **Keynote Speakers:**

**Thomas Rossvall**, Stockholm, Sweden:

Global Change: Research, Challenge and Policy Dilemma.

**Tom Dietz**, Fairfax, USA:

The Human Dimension of Global Change.

Samir Amin (not confirmed).

**10.30 Coffee-break**

**11.00 Panel Discussion:**

Thomas Rossvall, Tom Dietz, Samir Amin, Jaqueline McGlade,  
Jülich, Germany, Letitia Obeng, Achimota, Ghana.

**12.00 Lunch**

**13.30 Paper Sessions** No 1-11 (see pages 8-13)

**17.00 End.**

#### **17.30-20.00 Alternative Evening Activities**

**17.30 Environmental Problems in Southern Poland.**

Arranged by The Swedish NGO Secretariat on Acid Rain.  
Building E

**17.30 Institute for Human Ecology, Board and Fellow Meeting.** Organizer: Jeremy Pratt.

Building E

**18.30 Museum of Natural History.** Open to conference participants.

**19.00 Guided tour** and presentation of the ongoing work at the Museum,  
by Torkel Hagström.

## Tuesday 11 June

8.30 **Plenary Session** Room: Palmstedtsalen  
**Population and Food Resources**

Chair: Bengt Hubendick, Stockholm.

**Keynote speakers:**

Bertil Egerö, Lund, Sweden:  
 The Two Threats of Demographic-Economic Interrelationship:  
 The Need to Look Back in Order to see Forward.

Francesca Bray, San Francisco:  
 Population, Agricultural Intensification and Economic Diversity:  
 The Case of Asian Rice Economies.

Britta Jungen, Göteborg:  
 Toward Cultural and Biological Diversification.

10.30 **Coffee-break**

11.00 **Panel Discussion:**

Bertil Egerö, Fransesca Bray, Britta Jungen, G.S. Nathawat, Jaipur,  
 India, and Brita Ogle, Uppsala, Sweden.

12.00 **Lunch**

13.30 **Paper Sessions** No 12-21 (see pages 13-19)

13.30 - 17.00 **Symposion** Building C.

### **Transportation and Societal Development**

Chair: Bernhard Glaeser, Berlin.

**Keynote Speakers:**

Torsten Hägerstrand, Lund, Sweden:  
 Mobility and Transportation - Are Technology and Economics the only Limits?

Emin Tengström, Göteborg:  
 Automobility — is it Approaching a Global Crisis?

Kanehira Maruo, Göteborg:  
 Problems and Solutions in Road Transportation

Regis Cabral, Lund, Sweden:  
 Transportation and Societal Development — The Brazilian Case

15.00 - 15.30 **Coffee-break**

**Short Communications:**

A. Manuaba, Bali:  
 Environmental Deterioration at Denpasar-Bali Business.

Justin Samarasekera, Colombo:  
 An Urban Regeneration and Renewal Study of a Central Area of the City of  
 Colombo, Sri Lanka and the Transportation Factor in the Rehousing Exercise.

Urs Fuhrer and Florian G. Kaiser, Bern:  
 Attachment to Places and its Impact on Mobility.

Torsten Malmberg, Lund, Sweden:  
 Territoriality and Migration in a Human Ecology Context.

Dhanapala Samarasekera, Sri Lanka:  
 Model on East-West Cooperation. Model for Sustainable Development.

**General Discussion**

# Wednesday 12 June

- 8.00** Departure by bus from Chalmers, Palmstedtsalen.  
**10.00** Short visit to Tanums museum.  
**11.00** Arrival at Strömstad.

## Plenary Session:

### **Human Health and Environmental Changes**

Chair: Napoleon Wolanski, Warszawa.

## Keynote speakers:

**Cristina Bernis, Madrid:**

Environmental Changes and Women's Health.

**Carlos Coimbra, Rio de Janeiro:**

Environmental Changes and Human Disease: A View from Amazonia.

**Guy Heyden, Göteborg:**

The Koster Health Project.

- 13.00** Lunch at Hotel Laholmen, Strömstad.
- 14.00** Boat to the Island of South Koster.  
Guided tour around the Island, visit to the Koster Health project.  
Possibilities for recreational activities and bathing.
- 17.00** Dinner at Ekenäs Hotel, Koster.
- 19.20** Boat from Koster to Strömstad and buses to Göteborg.
- 22.30** (approx) Arrival to Göteborg.



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## Thursday 13 June

**8.30 Plenary Session Room: Palmstedtsalen.**  
**Ecological Values and Ecological Economics**

**I. Ecological Values**

Chair: Frank B. Golley, Athens, USA

**Keynote speakers:**

Dieter Steiner, Zürich:

The Children of the Earth: Archaic Principles for Environmental Ethics.

Mary E Clark, Fairfax, USA:

Critiquing the "Rational" Worldview.

Juan Martinez-Alier, Barcelona:

Ecology and Poverty.

Clovis Cavalcanti, Recife, Brazil:

Ecological Values in a South Perspective.

**10.15 Coffee-break**

**10.45 II. Ecological Economics**

Chair: Peter Söderbaum, Uppsala, Sweden.

**Keynote speakers:**

Ann-Mari Jansson, Stockholm:

Ecological values of Natural Capital.

Karl-Erik Eriksson, Göteborg:

The Physical Basis of Ecological Economics.

Robert Costanza, Washington:

Goals, Agenda, and Policy Recommendations for Ecological Economics.

Sören Bergström, Stockholm:

How Ecological Values are made Insignificant.

**12.30 Lunch**

**13.30 – 17.00 Parallel Sessions on**  
**Strategies in Research, Education and Action.**

No 22-24 (see pages 20-23)

**19.00 Conference Dinner: Departure by ferry from Stenpiren**

**19.30 Dinner at Restaurant Elfsborgs Fästning**

**23.00 Return by ferry to Göteborg**

# Friday 14 June

**10.00 Plenary Session** Room: Palmstedtsalen.

**Conference Summary:**

**Strategies in Research, Education and Action.**

Chair: Jan Nilsson, Göteborg.

**Speakers include**

Karl-Henrik Robèrt, The Natural Step.

Richard Borden, SHE.

**Follow up discussion** on the themes of Thursday afternoon

**13.00 Adjournment**

Monday, Session 1.

## Health in Developing Countries

Building D. 13.30 - 17.00

Coffee-break 15.00 -15.30

Chair: Cristina Bernis

Dickinson Bannack, F.:

Migration and Female Reproductive History in Yucatan, Mexico

Sircar, P. K.:

Strategy of Traditional Health Practices in Changing Cultural Ecology of LDC's

Cardenas Timoteo, C. M.:

Ecological Aspects of Traditional Health Care amongst Ethnic Groups in Peruvian Amazon: Past and Present

Coimbra, C. Jr:

Environmental Changes and Human Disease: A View from Amazonia

Balam Pereira, G.:

Clinical Evaluation of Medicinal Plants

Hansson, A.:

Indigenous Amazonian Health Organization Reinforces Environmental Consciousness

Menéndez Castillo, R. A.:

Research Results of Multidisciplinary Studies on Medicinal Plants in Cuba

Figueroa, R.:

Primary Health Care in Native Villages in Guatemala

Monday, Session 2.

## New Developments in Human Ecological Education

Building E. 13.30 - 17.00

Coffee-break 15.00 -15.30

Chair: Mel Coté

Mikelsons, Y.:

The Activities of the Latvian University in Managing the Environmental Issues

Berzina, I.:

On the Way to a Children's Ecological Culture

Vyasulu, V.:

Teaching about Technology, Development, Environment: Some Experiences

Varga, E.:

Post-graduate Course in Human Ecology at the Eötvös Loránd University, Budapest

Griffore, B.:

Graduate Programs in Human Ecology at Michigan State University

Trescott, A. S.:

Human Ecology Students - A British Experience of Value Added in Undergraduate Studies

Sundström, T.:

A Core Curriculum Course in Human Ecology

Coté, M.:

A New Master's Degree in Human Ecology at College of the Atlantic

Monday, Session 3.

## **Values, Ethics and Human Ecology**

Building C. 13.30 - 17.00

Coffee-break 15.00 -15.30

Chair: Finn Arler/Richard Langlais

**Caravello, G.:**

Scientific and Common Visions in Human Ecology

**Colombera, D.:**

Religious Behaviour — A Sound Evolutionary Strategy

**Döör, J.:**

Ecology, Philosophy and Science - Aspects of an Experimental Philosophy

**Glaeser, B.:**

Nature in Crisis? A Cultural Misunderstanding

**Golley, F.:**

A Reexamination of Deep Ecology in the Context of Scientific Ecology, Human Ecology and Environmental History

**Hanson, P.:**

Nature, Culture and Civilization

**Kuitunen, J.:**

On Ethical Responsibility of Social Research

**Lewan, L.:**

Man's Use of Chemicals, its Origin in Ecology and Handling in Society

Monday, Session 4.

## **Ecological Economics: Modelling Ecological Life-Support Systems**

Building C. 13.30 - 15.00

Coffee-break 15.00 -15.30

Chair: Ann-Mari Jansson

**Folke, C.:**

Human Exploitation of Natural Resources and Ecosystems: An Ecological-Economic Analysis of the Complementarity between Natural Capital and Man-Made Capital

**Hammer, M.:**

Ecological Support and Socio-Economic Trends in Fisheries — Matches and Mismatches for Ecological-Economic Sustainability

**Mathes, K.:**

Ecotoxicology and Ecological Economics

**Jaeger, C.:**

Societies, Models, and Global Change

**Shogren, J. F.:**

Elements of Agri Ecological Economics

Monday, Session 5.

**Ecological Economics:  
Thermodynamics and  
Ecological Value**

Building C. 15.30 - 17.00

Chair: Jacqueline McGlade

Philomena, A. L.:

Pricing Nature: A Brazilian Case Study

Doherty, S. J.:

Comparison between Resource Basis and Trade  
Balance between Urban and Rural Nations

Levarlet, F.:

An Ecological Macroeconomic Model: A  
Macroeconomic Model based on "Emergetic"  
Valuation Procedure

Vivién, F.-D.:

Economics and Thermodynamics in Sadi  
Carnot's Work

Månsson, B.:

On Energy and Values

Monday, Session 6.

**Ecological Economics:  
Basic Conceptual Issues**

Building E. 13.30 - 15.00

Coffee-break 15.00 -15.30

Chair: Carl Folke

Söderbaum, P.:

Outlines of Ecological Economics

Rees, W. E.:

The Ecological Economics of Global Change

Røpke, I.:

Beyond Clean Technology: Structural Changes  
of Production and Daily Life

Monday, Session 7.

**Ecological Economics:  
Policies and Values Based on  
Human Perception**

Building E. 15.30 - 17.00

Chair: Peter Söderbaum

Maier-Rigaud, G.:

Values, Prices and Economics in a Sustainable Society

Vestøl, J. Å.:

Ecologically Unhealthy Driving Forces in the Economy

Schlater, J. D.:

Toward the Measurement of Human Values:  
Subject-Object Interaction

Rojo, T.:

Ecological Values in Sociological Theory

Ruiz, J. P.:

Ecological Values and Landscape Aesthetics

Monday, Session 8.

**Ecological Problems in  
Industrial Societies and  
Urban Settlements**

Building E. 13.30 - 17.00

Coffee-break 15.00 -15.30

Chair: Marvin E. Olsen

Carlestam, G.:

How to Re-Think? The Need for New Paradigms

Gudynas, E.:

Sustainable Development and the Social Ecology of Poverty: A Latin American Perspective

Günther, F.:

Ecological Adaptation of Settlements

Gupta, A.:

Eco-Sociological Paradigm for Identifying Alternatives for Sustainable Development

Mazurski, K.:

The Quantitative Index of the Threat to the Natural Environment

Olsen, M. E.:

Resource Transfers and Energy Flows in Socioecological Organization

Schmid, P.:

Peaceful Building

Steffens, K. E.:

Can Sorokin's Sociocultural Theory Throw Light on Our Ecological Crisis?

Thring, M. W.:  
Equilibrium Engineering

Ward, D.:  
Question Mapping in Human Ecology

Ricci, M. A.:  
The European Spatiality in the Territorial Conquest of the World of Others

Monday, Session 9.

### **Population and Food Resources, the Problems in India**

Building E. 13.30 - 17.00  
Coffee-break 15.00 -15.30  
Chair: Bengt Hubendick

Frost, S.:  
Community Development and Social Responsibility in Pushkar Valley, Rajasthan

Mathur, H. S.:  
Food Resources and Nutritional Status in Rural India : A Study in the Geography of Health

Odend'hal, S.:  
Changing Cattle Ecology in the People's Republic of China and India

Saxena, P. S.:  
Increasing Population and Urban Unemployment in India

Monday, Session 10.

### **The Use of Carrying Capacity in Human Ecology: Concept and Application**

Building E. 13.30 - 17.00  
Coffee-break 15.00 -15.30  
Chair: Jeremy Pratt

Young, G.:  
Critic of the Application of the Carrying Capacity Concept in Human Ecology

Nielsen, J.:  
Displacement Effects and Repeat Use on the Green River, Wyoming

Taylor, J.:  
Carrying Capacity in Human Ecology: An Application to Outdoor Recreation Environments

King, J.:  
Finding a Path to Sustainable Development: The ECCO Model

Emmet, B.:  
Canada's Green Plan for a Healthy Environment

Lauer, P.:  
A Program to Identify California's Carrying Capacity



Monday, Session 11.

**International Forum — A  
Network for Human Ecology**

Room: Palmstedtsalen. 13.30 - 17.00

Coffee-break 15.00 -15.30

Chair: Richard Borden/Eva Ekehorn

**Discussants:**

Daysh, Z., CHEC

Hens, L., EHEA

Glaeser, B., DGH

Malmberg, T., NSHE

Suzuki, S., Japan

Wang, R., China

Ruiz, J., Spain

Wolanski, N., IUAES, Commission of  
Human Ecology

Gudynas, E., Uruguay

Murguia Rosete, R. E., Mexico

Nathawat, G. S. and Unnithan, P. K. N.,  
CHEC, India

Lucan, A., Sierra Leone

Panzhauser, E., IOHE

Knötig, H., IOHE.,

Varga, E., Hungary

Manuaba, A., Indonesia

Tuesday, Session 12.

**Integrating the Sciences**

Room: Palmstedtsalen 13.30 - 17.00

Coffee-break 15.00 -15.30

Chair: Tom Dietz/Uno Svedin

**Speakers (titles to be announced):**

Golley, F.

Gudynas, E.

Jaeger, C.

Jungen, B.

McCay, B.

O'Riordan, T.

Robinson, J.

Weichhart, P.

Young, G. L.

Tuesday, Session 13.

## **Global Change**

Building E. 13.30 - 17.00

Coffee-break 15.00-15.30

Chair: Emilio Moran

**Przybylski, T.:**

Biological Impoverishment of Forest Ecosystems under Anthropopression

**Brown, P. G.:**

Climate Change and the Planetary Trust

**Gibbs, O.:**

The Environmental Concerns of Small States, Climatic Change and Sea Level Rise

**Mgeni, A.:**

Mangrove Utilization and Sustainable Management in Tanzania

**Moran, E.:**

Amazonian Deforestation: Local Causes, Global Consequences

**Vijil y Tardon, C.:**

The Need of Research on the Human Condition

**Gorinsky, C.:**

Ethnobiology for the 21st Century

**Ohlsson, L.:**

Sustainable Development of the Greater Ganga: A Case for Regional Cooperation

**Singhal, R.:**

Human Factors in Ecological Interventions: The Case of Indian Forestry

**Giampietro, M.:**

Sustainable Development: Limitations of Scientific Assessment

**Kaijser, B.:**

Sustainable Development — Semantic Delusion or Serious Debate?

Tuesday, Session 14.

**Population and Food Resources, the Problems of Different Social Settings**

Building E. 13.30 - 17.00

Coffee-break 15.00 -15.30

Chair: Bengt Hubendick

**Breckling, B.:**

Development Perspectives of Subsistence Societies — Experiences of the HIFCO Project in the Peruvian Amazon

**Davys, G.:**

Green Crop Fractionation: A Farming Technique with Ecological Merit

**de Ita Martinez, C.:**

Nutritional Requirements and Human Population Growth in a Tropical Forest Community in the Southeast of Mexico

**Fenghui, W.:**

Critical Environmental Zones (CEZ:s) in Global Change: Case study in the Ordos Plateau of China

**Iregren, E.:**

Trace elements in a Medieval Population in Middle Sweden — Are Levels Due to General Subsistence, Diet or Cultural Patterns?

**Kadekodi, G.:**

A Model for Eco-development: The Case of Peoples' Participation

**Mahgoub, M.:**

Customary Laws and Ecological Adaptation in Awlad Ali Tribes of the Northern Coast in the Western Desert of Egypt

**Marcuzzi, G.:**

Bio-demographic Patterns in the German Linguistic Islands of Southern Alps: Towards a Synthesis

**Méndez Gonzalez, R. M.:**

Childhood Nutritional Status and Biodiversity—Changes in Yucatan, Mexico

**Moji, K.:**

Abalones and Divers on Ojika Islands: Struggle for Sustainable Diving/Fishing and Their Effects

**Sinha, R. K.:**

Food Declines while the Feeder Rises: Need for Appropriate Technology of Food Production Economically Cheaper and Ecologically Safer for Mankind

Tuesday, Session 15.

## Family Ecology

Building C. 13.30 - 17.00

Coffee-break 15.00 -15.30

Chair: Muriel Cantor

Bosch-Willebrand, I.:

Quo Vadis?: Women in the Environment

Forsleff, L.:

Hearthfinding: Affordable Eco-Housing for Seniors, Single Parent Families and the Homeless

Goldsmith, E.:

Balancing Work and Family: A Transnational Issue

Maddock, J.:

Modelling Families via Dialectical Ecology

Shanahan, H.:

Recognize the Complexity of Decision-Making in the Household: An Ecological Approach to Studying Purchase Behaviour related to the Generation of Waste in the Household

Tuesday, Session 16.

## Human Health and Environmental Changes

Building D. 13.30 - 17.00

Coffee-break 15.00 -15.30

Chair: Napoleon Wolanski

Anelli, A.:

Environmental and Biological Factors on Spatial Mortality Differentials in the Developing Countries

de Silva, J.:

The Health Issues Related to Settlements in Large Scale Irrigation Projects in Sri Lanka

Dobrowolski, J.:

Cross-Disciplinary Training and Prevention of Deterioration of the Human Environment

Egnéus, H.:

Health Effects of Charcoal and Wood Fuel Use in Low-Income Households in Lusaka, Zambia

Guminska, M.:

Ecological Problems of Cracow and their Health Consequences

Johansson, E.:

A Cellular Model to Monitor Early Changes in the Environment

Kabuto, M.:

Urbanization, Air Pollution and Lung Cancer Mortality in Japan (1969 - 83) — An Ecological Correlation Study

Mehandjiev, M.:

Human Health in the Combined Ecological-Economic Assessment of Regional Industrial Development

Murakami, M.:

Environmental Health Surveillance System

Siniarska-Wolanska, A.:

Child Growth and Family Living conditions: The Case of Poland.

Tretter, F.:

Methodological Problems of Environmental Medicine — Scientific Research and the "Real Life"

Alexander, W. A.:

A Sustainable Human Ecology: Kerala, India

Wolanski, N.:

Some Positive Indices of Health and Economic and Demographic Conditions in Poland

Tuesday, Session 17.

**Ecological Economics:  
Politics and Instruments**

Building E. 13.30 - 15.00

Coffee-break 15.00 -15.30

Chair: Peter Söderbaum

Eckersley, R.:

Green Economics: Overcoming the Credibility Gap

Hellstrand, S.:

Current Trends in Swedish Governmental Policies in Relation to Principles for Sustainable Development

Ketkar, K.:

Hazardous Waste Sites and Income Inequalities: Policies and Cost-sharing

Lewan, N.:

Land Ownership and Responsibility

Perelet, R.:

Environmental Economics and Security Issues for the 1992 UNCED

Tuesday, Session 18.

**Ecological Economics:  
Ethics**

Building E. 15.30 - 17.00

Chair: Dieter Steiner

Stryken, A. C.:

Environment and Ethics — Some Basic Questions

George, R.E.:  
Socioeconomic Democracy and Ecological  
Economics

Hedman, S.:  
The Influence of Political Culture on Policy-  
making to Promote Ecological Sustainability

Zierhofer, W.:  
Silent Preferences

Seifert, E. K.:  
Economic-Ethical and Bio-Economic Elements  
of "Practical Economics"

Tuesday, Session 19.  
**Ecological Economics:  
Development 1**

Building E. 13.30 - 15.00  
Coffee-break 15.00 -15.30  
Chair: Francis Allotey

Perkins, P. E.:  
Environmental Impact of the IMF/World Bank  
Economic Program

Niedritis, J. E.:  
Management Efficiency and Social-Economic  
Motivation of Natural Economy

Thakur, L.:  
Population Growth and Ecological Economics  
in Developing Countries

Tuesday, Session 20.  
**Ecological Economics:  
Development 2**

Building E. 15.30 - 17.00  
Chair: Francis Allotey

Cavalcanti, C.:  
Towards a Notion of Ethno/Eco-Development

Khan, T. I.:  
Strategy for Ecologically Sustainable Develop-  
ment — A Human-Ecological Perspective

Martinez Negrete, M. A.:  
An Integrated Approach for Fulfilling Society  
Needs with Natural Resources by Means of So-  
Called Appropriate Technologies

Yu Kong-jian:  
Basin Experience and Ecological Prudence and  
Engineering in China: Tradition and Inspiration

Tuesday, Session 21.

## **Values, Ethics and Human Ecology**

Building C. 13.30 - 17.00

Coffee-break 15.00 -15.30

Chair: Finn Arler/Richard Langlais

Arler, F.:  
Green-House Ethics

Knötig, H.:  
"Human Ecology", Scientific Effort vs Problem  
Solving Action: Does This Matter?

Kvaløy, S.:  
Eco-Social Sustainable Development and Non-  
Western Worldviews

Langlais, R.:  
What is meant by Ecological Security?

Pavia, H.:  
The Concept of National Security from an  
Ecological Perspective : A Preliminary Discus-  
sion

Polk, M.:  
The Use of Nature in Literature — A Brief  
Overview of Three Novels

Pratt, J.:  
Towards an "Ecology of Knowing"

Rothkrug, P.:  
Freedom, Community, Stewardship — A Troika  
for Social Change

TeHennepe, E.:  
Ecology, Education and Philosophical Maps

**Thursday, Parallel Sessions**  
**Strategies in Research, Education and Action**

Thursday, Session 22.

**Strategies in Research**

Building D. 13.30 - 17.00

Coffee-break 15.00 -15.30

Chair: Charles Suzanne, and Philippe Lefevre-Witier

**Introduction:**

Hens, L.:

Research in Human Ecology — An Overview

Firebaugh, F.M.:

Criteria for Evaluation of Interdisciplinary Research

**Paper Presentation:**

Graham J.:

Human Ecology and Health Advancement: The Newcastle Experience and Implications

Garrett, M.J.:

Cross Disciplinary Research Methods: Lessons from National 21st Century Studies

King, J.:

Research on Carrying Capacity, Ecological Economics and Ecological Ethics. Priorities for the Future

Lefevre-Witier, P.:

Interdisciplinary Approaches Combining Health Epidemiology and Human Ecology

Staller, T.:

A Conception for Human Ecology

Resource Persons from the Department of Human Ecology in Göteborg

Discussion.



Thursday, Session 23.

## **Strategies in Education**

Building D. 13.30 - 17.00

Coffee-break 15.00 -15.30.

Chair: Tage Sundström, and Anthony Vann

Hagström, T.:

Natural History Museums and Human Ecology

Naess, T.:

Human Ecology and System Action Research

Ernshteins, R.:

Environmental Awareness and Education in Latvia

Kastenholz, H.:

Responsibility for Humankind and Nature — A Human Ecological Approach to Environmental Education

Straus, D.:

Intuition — A Human Tool for Generalizing

Mitastein, M.:

Role-playing and Human Ecology: A Pedagogical Proposal

Kumar, S.:

Field Studies in the Himalayas, Challenges of Cross Cultural Studies

Baluta, B.:

The Place of Adults Education, Particularly Training of Qualified Staff in New Polish Environmental Policy

Bang, J.:

Ecological Organization of Persons and Problems

Vann, A.:

Disciplinarity — its Advocacy and Rejection in the Study of Human Ecology

Thursday, Session 24.

## **Strategies in Action**

Room Palmstedtsalen. 13.30 - 17.00

Coffee-break 15.00 -15.30

Chair: Oswald Gibbs

### **Introduction:**

Daysh, Z and Unnithan, T.K.N.:

Strategies for Local and Global Application of Human Ecology

### **Paper Presentation:**

Carley, M.:

An Innovative Programme for Integration of Environmental Management into National Development in Seven Countries

Bahrenberg, G.:

The Territorial Principle in Political Decision-making

Oliver, J.:

Social Forestry and the Role of NGOs in Rajasthan State, India

Malta, F.N.C.:

The Human Ecology Symposium in Utatuba, Brazil A Strategy for Local Action

Discussion

### **Paper presentation continued**

Douglas, R.:

Country Environmental Profile Project for the Commonwealth of Dominica

Holzknicht, H.A.:

Development and Ecology in Papua New Guinea: Strategies in Action

Gupta, U.C.:

Koles of Bundelkhand (U.P.): A Study in Cultural Ecology

Higgins, D.:

Human Ecology Providing the Kind of Instrument to Enhance Living Conditions in Jamaica

Thompson, K.:

Human Dependence upon the Land/Water Interface

Philips-Howard, K.:

Mineland Reclamation on the Jos Plateau, Nigeria

Resource Persons: Lucan, A., Gorinsky, C., Nathawat, G.S., and Kahn T.I.

Discussion

**Poster session**

Tuesday 11 June 8.30 - 17.00  
Building E.

**Video and/or slide show**

Tuesday 11 June 17.30 -  
Room Palmstedtsalen.

Gayden, E.L.:

The Urban Ecology of a Mexican City

Figuero, R.:

A Primary Health Project in Guatemala

Hansson, A.:

The Earth under Pressure

McGlade, J.:

The Blue Revolution: The Last Hunters

**Member meetings of Human-Ecological Organizations**

**Society for Human Ecology (SHE)**

Informal member meeting

Tuesday 11 June 18.00 -

Building E.

**Nordic Society for Human Ecology (NSHE)**

Friday 14 June 14.00 -

Room Palmstedtsalen