Environmental Impact Assessment and Strategic Environmental Ass

Tools for Mainstreaming Environmental Sustainability - Brendan Barr

The late 1960s and early 1970s witnessed the emergence of a number of tools such as environmental impact assessment and strategic environmer evolved over the past three decades and represent powerful instruments of holistic thinking on how to tackle environmental problems. This lecture will support environmental decision-making: Environmental Impact Assessment Assessment. The students will learn how to differentiate between these to In addition, they will have the opportunity to critical explore the strengths a with the support of practical case studies.

Outline of the lecture:

- 1. Introduction
- 2. Case Study: About the New Ishigaki Island Airport
- 3. Discuss SEA
- 4. Discuss EIA
- Case Study: M4 Relief Road (Wales)
- 6. Closing Remarks

References:

Bond R., J. Curran, C. Kirkpatrick and N. Lee (2001): ?Integrated impact ass development; a case study approach?, World Development, Vol 29, No 6, pp.

Scholten J.J. & R.A.M. Post (1999): ?Strengthening the integrated approach development cooperation?, Environmental Impact Assessment Review, 19, I

Brouwer R. and R. van Ek (2004): ?Integrated ecological, economic and soc flood control policies in the Netherlands?, Ecological Economics, 50, pp.1-2*

Glasson, J., Therivel, R. and Chadwick, A. (1998) Introduction and Principle: Impact Assessment, UCL Press. London.

Therivel R. (2004) Strategic Environmental Assessment in Action, Earthscar

Presentations:

Integrated Impact Assessment (IIA) by Arabinda Mishra, TERI Environmental Impact Assessment and Strategic Environmental Assessment

Resources

Report on the SEA for the M4 Relief Road

Report by UNEP on Environmental Assessment and STrategic Environmental Assessment Best Practice

UNEP Studies of EIA Practice in Developing Countries

Mitsubishi Research Institute Report on Effective SEA Systems and C

UNU course Module on SEA (in development)

UNU Wiki on SEA Public Involvement with EIA Yokohama, Japan

Identifies the broad thematic areas in which IIA has been practised at

Provides a comprehensive thematic guide to integrated assessment s Report of the UK Mapping Project on the practice of IIA in the UK

API Video Recording:

Part I: Introduction by Brendan Barrett

Part II: Integrated Impact Assessment (IIA) by Arabinda Mishra

Part III: Environmental Impact Assessment and Strategic Environmental

by Brendan Barrett

QUIZ:

Session 2 Quiz

October 19, 2006 (Thursday) Hawaii, Samoa

October 20, 2006 (Friday) Fiji, India, Japan, Thailand

Monitoring the Earth: Earth Observing Technologies

At the macro level, the earth (land as well as seabed) topology, sea surfa constantly observed by earth observing satellites of various kinds. The inf and shared by scientific communities for practical use ranging from region fisheries, and weather forecasting. Integrated and sustained Ocean Obser this context. At the micro level, sensor technologies are used to monitor one particular point, which in turn are recorded on regional basis, providi environmental quality of the region. Environmental visualization sensor to with a plan of forming an environmental observation network based on su

Presentations:

Complex Environmental Systems: Synthesis for Earth, Life and Society in

PDF version of Dr. Kenneth Kaneshiro's presentation

Cyberinfrastructure for Environmental Research and Education by Mike I

PDF version of Mr. Mike Kido's presentation

Kona Design Tsunami by Mike Kido

API Video Recordings:

Part I: Monitoring the Earth. Complex Environmental Systems: Synthesis Kaneshiro

Part II: Cyberinfrastructure for Environmental Research and Education by

5 October 26, 2006 (Thursday) Hawaii, Samoa

October 27, 2006 (Friday) Fiji, India, Japan, Thailand

Coral Reef Management and Marine Biodiversity

Co-Management of Coastal Fisheries Res **KEYNOTE SPEAKERS:** Kakuma, University of the Ryukyus



DR. SHINICHIRO KAKUMA, Research Institute for Subtropics, Okinawa,

Small Island Ecosystems and Susta

Japan



DR. RANDY THAMAN Professor, Pacific Islands Biogeography, University of South Pacific, Suva, Fiji Islands.

Presentations:

Co-Management of Coastal Fisheries Resources in Okinawa and Asia Pi Island Biodiversity by Dr. Randy Thaman

API Video Recordings:

Co-Management of Coastal Fisheries Resources in Okinawa and Asia Small Island Ecosystems and Sustainble Development by Professor I

November 09, 2006 (Thursday)

Hawaii, Samoa

November 10, 2006 (Friday) Fiji, India, Japan, Thailand

Land Tenure and Forest Resource Management

The International Negotiation for A Stable Global Climate

This session will deal with the issue of global climate change. For the fi lecturer will provide the students with the basic information about the climate change regime. This global environmental regime consists of th Climate Change and the Protocol. The second half of the session will be negotiation, or a class discussion, that will be carried out by the studer theme of the discussion session will be how to strengthen the climate c the first commitment period of greenhouse gases reduction by most ind

Presentation:

The International Negotiation for A Stable Global Climate by Prof. Kei

Curriculum Vitae:

Professor Keijiro Otsuka

Lecture Outline:

The International Negotiation for A Stable Global Climate

API Video Recording:

The International Negotiation for A Stable Global Climate by Dr. Keijir

7 November 16, 2006 (Thursday) Hawaii, Samoa

November 17, 2005 (Friday) Fiji, India, Japan, Thailand

Coastal Zone Research, Planning & Management and Integrated Coastal Management

Coastal Zone Research

Indo-Pacific region is the world's richest region for marine biodiversity. one integrated ecosystem, various types of human activities including a top soil, inflow of pesticides and fertilizers), construction (terrestrial ricurrents and sand movement), fisheries, and leisure activities impact o there has not been enough exchange of views among stakeholders. Fea: approach to coastal management is discussed by experts on mangroves zone ecosystem.

Part I: Managing Coastal Erosion by Prof. Chip Fletcher

Part II: Periodic Assessment of Human Exposure to Air Po Sources: A Potential Indicator of the Effectiveness of Emi Programs in Asia by Prof. Peter Flachsbart

Learning Objectives:

The air quality of many Asian cities exceeds ambient standards limiting concentrations of particulate matter, sulfur dioxide, and nitrogen dioxi

World Health Organization, an estimated 487,000 Asians are at risk of p year because of poor urban air quality. To address this problem, many, launched or expanded mobile-source emission control programs during programs often were modeled after programs in developed nations such and the United States. Several Asian countries have plans to tighten the emission standards over the next several years. Given these plans, it we baseline surveys of human or personal exposure to mobile-source air pc assess compliance with the standards by repeating the surveys at perior every few years). These surveys could use portable monitors to measure certain air pollutants (e.g., carbon monoxide and particulate matter) e sources. Unlike air quality monitoring at fixed sites, there are no legal | personal exposure to air pollution on roadways. Yet, these studies ofter improve knowledge of air pollution exposure and its effects, and to disc exposure. Many exposure studies have been performed in North Americ during the last 40 years. While several road-user exposure studies have China, India, and Indonesia, very few studies have been done elsewhere exposure studies are particularly applicable for cities in the developing have rapidly growing vehicle populations, congested roads and confined motor vehicle emission control programs.

Reading:

Please read Exposure to Carbon Monoxide (under Resources below). The Professor Flachsbart wrote in a book titled: Exposure Analysis (book cov

Presentations:

Periodic Assessment of Human Exposure to Air Pollution from Mobile Control Programs in Asia by Prof. Flachsbartt

Resources:

Book title: Exposure Analysis

Exposure to Carbon Monoxide by Prof. Peter Flachsbart

Miscellaneous:

Article in the Honolulu Advertiser by Professor Fletcher (October 30, 2

API Video Recordings:

Part I: Managing Coastal Erosion by Prof. Chip Fletcher

Part II: Periodic Assessment of Human Exposure to Air Pollution from Emission Control Programs in Asia by Prof. Peter Flachsbart

Quiz:

Session 7 Quiz

8 November 30, 2006

Hawaii, Samoa

(Thursday)

December 01, 2006 (Friday) Fiji, India, Japan, Thailand

Land, Air & Marine Based Chemicals, Waste and Pollutior "Land and Marine-Based Chemical Pollution" by Dr. Jacinta

Land and marine-based chemical pollution, because of the phenomena of