



INSTITUTE FOR EARTH SYSTEM PRESERVATION (IESP)  
International Experts supporting a sustainable balance between Environment,  
Economy and Society

## Newsletter

### Book-Project: Sustainable Risk Management

Collection and review of the chapters is still an ongoing process. Peter Wilderer serves as editor-in-Chief. In the following we have the pleasure to inform you about the current state of titles of the contributions and organization of the book. By mid March 2017, we hope we can present the outline of the book and the chapters to the Springer book series on “Strategies for Sustainability”.

### Chapters

#### Part 1: Fundamental Thoughts

Lead Editor: Ulfwin Renn

**Risks, Side-Effects and Uncertain Knowledge:  
From Normative to Hypothetical Risks (tentative title)**  
Renns

**Risk Management from the Perspective of Catholic Social Ethics**  
Vogl

**Distributed Responsibility in Risk Governance**  
Klinka & Renn

**Economic Growth: Opportunity or Risk**  
von Hauff

**Approaching Risk Management: General Perspectives on Handling Systemic Risks**  
Dorfler & Straub

#### Part 2: The Environmental and Ecological Dimension

Lead Editor: Martin Grambow

**Dialectics of Chances and Risks as Management Approach in Environmental Development (tentative title)**  
Grambow und Korcz

**Maxims of Risk Ethics for Sustainable Agriculture**  
Gullwalle

**Risk of sustainable water management under the threat of climate change: Towards the Nexus City**  
Gondhakekar & Drewes

**Risking Weather Engineering: Fiction or Contribution to Conflict Prevention?**  
Wilderer & Fluhrer

**Contribution of Neurobiology to Decision Making and Generation of Motivation (tentative title)**  
Braune

**Resilient Environment and Nature: Basis for Human Health (tentative title)**  
Hildebrandt

## Part 3: The Medical Radiation Dimension

Lead Editor: Michael Mölls

### Overview

Belau et al.

### The biological foundations of risks from ionizing radiation exposures:

How understanding associated effects will help their quantification and mitigation

Iliakis

### The carcinogenic risk in radiation medicine

Trott

### Benefit and Risks of Screening for Breast Cancer

Heywanger-Köbrunner

### “Radiation effects” in patient treatment

Flantje

### Risk Management in Radiation Medicine:

Administrative, legal and ethical aspects of research in radiation medicine in Germany

Nestle and Lukas

### Dealing with risks in modern medicine, effective communication included

Peter

## Part 4: The Technical Dimension

Lead Editor: Klaus Meinzer

### Overview

Rossmann and Hafner

### Sustainable Risk Management in Business

Steger

### Risking the Future of Automotive

Spiegelberg

### The Smart City Concept: A review concerning sustainable risk-management

Kleinberger

### Dark Clouds over the Digital World

Korhammer and Grambow jun.

## Research Project on “WaterFutureBavaria

Bavarian Ministry of Environment (StMUV) puts forward a major Bavarian research project WaterFutureBavaria (WasserZukunftBayern). Subject of this project is the complete modeling of the water situation in Bavaria. Hydromorphologic river processes and hydrologic surface processes are integrated into a high performance computing. Regional and countrywide water situations (flooding, draughts, erosion, irrigation) will be modeled and visualized.

The project is in an advanced state of approval. IESP will take part in this project as scientific advisory board.

## Workshop on “Efforts to Gain Agricultural Transformation”

IESP is preparing a workshop in 2017 on “Efforts to Gain Agricultural Transformation”. We have a strong feeling that the present agricultural system is at stake. Agriculture and water are

in close interaction. Water scarcity and water quality are of major importance to agriculture. Vice versa agriculture can have major effects on water quality.

The workshop aims to investigate this interaction with Bavaria as an example. This also leads to a continued discussion of agricultural topics of overriding importance.

The discussion will touch four focus groups:

- Water-nature-soil
- Agricultural economics
- Quality of rural life
- Global interconnections

The workshop is planned to take place at Feldafling near Munich in fall 2017.