



## **International Workshop: NATO/CCMS Pilot Study on the Use of Landscape Sciences for Environmental Assessment**

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**St. Petersburg, Russia, 3-6 July 2006**  
**Research Center for Interdisciplinary Environmental Cooperation**  
**Russian Academy of Sciences**

# MEETING AGENDA

## International Workshop: NATO/CCMS Pilot Study on the Use of Landscape Sciences for Environmental Assessment

St. Petersburg, Russia, 3-6 July 2006

Research Center for Interdisciplinary Environmental Cooperation  
Russian Academy of Sciences

**Sunday, July 2<sup>nd</sup>, 2006**      *Arrival to St. Petersburg of Participants*

20:00      *Informal Reception (INENCO Center)*

**Monday, July 3<sup>rd</sup>, 2006**      (INENCO Center Auditorium)

08:30      *Registration*

*Greeting addresses by host organization:*

09:00      Director of INENCO Center – Yury Pykh

09:05      Coordinator of International Programs - Irina Malkina-Pykh

09:10      Director of Research, Workshop Local Organizer - Gennady Menzhulin

09:20      Introduction of the Pilot Study – William Kepner

09:30      Tasks of the Workshop: Conceiving a Strategy for the Use of Landscape Sciences for the Assessment of Environmental Security – Felix Mueller

*Landscape and Human Ecology of the St. Petersburg Region*

09:50      Using the Remote Sensing Data on Vegetation Indices as the Numerical Predictors in the Statistical Models of Landscape Productivity: Case Studies for US and Russian Agricultural Landscapes – Gennady Menzhulin (INENCO), Felix Kogan (US NOAA), Gleb Peterson (INENCO), and Sergey Savvateyev (SPb University)

10:10      Illustrated Thesaurus as a Tool for Landscape Research in Coastal Zones – Sergey Victorov (Research Institute of Space and Aerological Methods)

10:30      Numerical Modeling of Energy and Matter Transport in Complex Landscapes – Andrey Sogachev (Helsinki University)

10:50      *Coffee Break*

11:30      Integrated Landscape Diagnostics of Vegetation Stress; Measurement Techniques and Remote Sensing Models – Vladimir Surin (INENCO) and Eugheny Kuvadin (Valilov Institute of Optics)

- 11:50 Influence of Catchment Land Cover on Phosphorus Balance for Large Freshwater Systems – Sergey Kondratjev (Institute of Limnology)
- 12:10 ***Lunch Break***
- Reports from National Projects***
- Landscape Science Methodology***
- 14:00 Remote sensing in environmental assessment of reindeer pastures: case studies from Finland and Russian Arctic - Kumpula et al. FIN, GER
- 14:20 Investigating landscape pattern in protected areas using satellite images - Nedkov et al. BUL
- 14:40 Environmental assessment and landscape management: On the relation of pareto efficiency and optimum land use pattern for habitat suitability – Seppelt and Holzkamper GER
- 15:00 A class of metrical correlations organizing land structure – Tiknius et al. LIT
- 15:20 Development of automatic GPS services for assisting environmental assessment and human security - Swiatek et al. POL
- 15:40 Landscape Character – an UK based example to assess landscapes – Haines-Young and Potschin UK
- 16:00 ***Coffee Break***
- Watershed Analyses***
- 16:30 A cross-European landscape assessment – Jones et al. USA
- 16:50 A landscape assessment of Oregon with a future scenarios analysis of the Willamette River Basin - Kepner et al. USA
- 17:10 Biotic structure of a catchment as a key for protection and insurance of ecosystem services - Krauze et al. POL
- 17:30 Environmental Security and Landscape Risk Assessment in Yantra Basin - Nikolova et al. BUL
- 17:50 ***Adjourn***
- 18:00-19:00 ***First Meeting of the Editorial Board for the Final Report***

Tuesday, July 4<sup>th</sup>, 2006

(INENCO Center Auditorium)

**Reports from National Projects continued-**

***Human-Environmental Problems***

- 09:00 Socio-ecological indicators in representative cultural landscapes – the example of a new Biosphere Area in South-Germany - Lenz et al. GER
- 09:20 Social Ecological Risks and Security of Human Environment (exemplified by regions of Central Russia) - Rudsky et al. RUS
- 09:40 Energy and security – fossil fuels shortage and alternative energies. Energy recovery by biomass for the generation of biogas - Sabbagh et al. GER
- 10:00 Fostering security of ecosystem services as given by both objective and subjective analyses - Petrosillo et al. ITA
- 10:20 A short outline of the demographic part of the final report – Swiaczny et al. GER
- 10:40 The assessment of habitation indicators using GIS conclusive remarks on Transylvanian Plain - Baciu et al. ROM

11:00 ***Coffee Break***

- 11:20 Progress report about the Norwegian landscape monitoring programme - Fjelstadt et al. NOR
- 11:40 Landscape, demographic developments, biodiversity and sustainable land use strategy: a case study on Karaburun Peninsula Izmir, Turkey – Nurlu et al. TUR

12:00 ***Lunch Break***

**Reports from National Projects continued-**

***Regional Case Studies***

- 14:00 Diversity of anthropogenic transformation of Georgia's natural landscapes - Sopadze et al. GEO
- 14:20 Environmental security in a panarchy of socio-ecological systems as signalled by disturbance patterns at multiple scales - Zurlini et al. ITA
- 14:40 Unanticipated Benefits from Research: Landscape Ecology and Sustainability in Bulgaria – Knight and Staneva USA; BUL
- 15:00 Human-environmental Systems Indicators within Integrated Coastal Zone Management - Burkhard et al. GER
- 15:20 Environmental impact assessment; a case study of the Copsa Mica area, Romania – Buzila et al. ROM
- 15:40 Nuclear Safety and its impact on the level of environmental security in Ukraine – Kuznietsov et al. UKR

- 16:00      **Coffee Break**
- 16:30      News regarding gold exploitation in Rosia Montana - Lazarescu et al.      ROM
- 16:50      University level education on GMES in Latvia - Zagars et al.      LAT
- 17:10      **Beginning Discussion of the Final Report for NATO/CCMS**
- 17:30      **Adjourn**
- 18:00-19:00      **Second Meeting of the Editorial Board for the Final Report**

**Wednesday, July 5<sup>th</sup>, 2006      (INENCO Center Auditorium)**

**Discussion of the Final Report and Future Cooperation**

- 09:00      Organizing the Final Report – Petrosillo, Kepner, and Mueller
- 11:00      **Coffee Break**
- 11:30      Potential for Future Cooperation and Projects – Everyone
- 12:00      Concluding Remarks – Kepner and Mueller
- 12:20      **Lunch Break**
- 14:00      **Cultural Excursion** (St. Petersburg Square)
- 18:30 - 22:00      **Final Banquet** (St. Petersburg House of Scientists)

**Thursday, July 6<sup>th</sup>, 2006      Private Cultural Excursions & Individual Departures**

***Potential Meeting of the Editorial Board for the Final Report (INENCO Center or Hotel Russ Lobby)***

