



## **NATO/CCMS Pilot Study Meeting at Veliko Turnovo Bulgaria**

NATO/CCMS Pilot Study on  
Use of Landscape Sciences for Environmental Assessment

### **“Landscape Analyses and Landscape Modelling”**

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**Veliko Turnovo, Bulgaria, 4-8 September 2005**

**Interhotel Veliko Turnovo**

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# MEETING AGENDA

## NATO CCMS Pilot Study “Use of Landscape Sciences for Environmental Assessment”

### Pilot Study Meeting at Veliko Turnovo (Bulgaria)

September 4<sup>th</sup> to 8<sup>th</sup>, 2005

### Focal Theme: “Landscape Analysis and Landscape Modelling”

**Sunday, September, 4<sup>th</sup>, 2005** (Hotel Veliko Turnovo, Veliko Turnovo)

*Arrival at Interhotel Veliko Turnovo at Veliko Turnovo*

13:30 Software coordination for AGWA training session (AGWA, ArcView3.x, and Spatial Analysis Extension to be loaded to notebook computers)  
D. Semmens

20:00 Get Together and Dinner in Hotel Veliko Turnovo

**Monday, September 5<sup>th</sup>, 2005** (Hotel Veliko Turnovo, Conference Hall 1)

08:30 ***Registration***

09:00 Greeting addresses by host organizations:

Director of the Institute of Geography at BAS – Prof. G. Alexiev

Bulgarian Academy of Sciences (BAS) – Prof. Ivan Havezov,  
NATO/CCMS National Representative for Bulgaria

Director of the Regional Inspectorate of Environment and Waters - Veliko  
Turnovo – Ms. Elena Grigorova

9:30 ***Introduction to Bulgaria and Veliko Turnovo Region***

10:00 Staneva M. – Bulgaria and the Veliko Turnovo Region

10:20 Grigorova E., M. Hristova – Environmental Biomonitoring in  
Bulgaria and RIOSV Veliko Turnovo

10:40 Knight G. – Environment and Water in Bulgaria

11:00 *Coffee Break*

11:30 ***Introduction to the Workshop***

W.Kepner (USA) and F. Müller (Germany)

12:00 **Workshop 1, Conference Hall 1:**

***Progress Reports from the National Contributions***

*Chairman: Zurlini G. (Italy)*

*Rapporteur: Petrosillo I. (Italy)*

12:00 Austria (Blashke T.)

12:20 Bulgaria (Nikolova M./ Nedkov S./ Iankov S.)

12:30 *Lunch*

13:30 Progress Reports from the National Contributions (continuation) :

13:30 Georgia (Sopadze G.)

13:40 Italy (Zurlini G./Zaccarelli N./Petrosillo I.)

13:50 Latvia (Zagars J.)

14:00 Lithuania (Jankauskas B.)

14:10 Poland (Krauze, K.)

14:20 Romania (Lazarescu M.)

14:30 Romania (Muntean O.L./Dragut L./Baciu N./Man T.)

14:40 Russian Federation (Kondratiev S./Victorov S.)

14:50 Russian Federation (Victorov S.)

15:00 Turkey (Nurlu, E.)

15:10 Ukraine (Kuznyetsov V.)

15:20 United States (Kepner W.)

15:30 New national contributors: Norway (Fjellstad W.)

15:50 *Coffee Break*

**Workshop 2, Conference Hall 1:**

***Research Results from National Participants***

*Chairman: Blaschke B. (Austria)*

*Rapporteur: Krauze K. (Poland)*

16:30 Muller F. Indicating Ecological Integrity on Different Scales

16:45 Jones B. Cross-boundary and Multiple Indicator Landscape Assessments

17:00 Seppelt R. On the use of Landscape Modelling: Selected Studies on Modelling Anthroposphere Biosphere Interaction

17:15 Larry Li B. Allometric Scaling as an Indicator of Ecosystem State: a new approach

17:30 Zaccarelli N. Multiscale Analysis of Human Driven Landscape Dynamic in a Mediterranean Region (Apulia Region, Southern Italy)

17:45 Kondratiev S. Hydrological Modelling for Lake Ladoga Drainage Basin

18:00 Zagars J. Use of Remote Sensing Data for Forestry in Latvia

18:15 Kumpula T. Reindeer Pasture Classification using Remote Sensing

18:30 Baciu N., L. Dragut, T. Man – Types of Environmental Indicators used in Landscape Assessment ( Case Study: Transilvanian Plane, Romania)

- 18:45 Muntean O., L. Buzila – Environmental Planning Using GAS (A Case Study: Tatnava Mare Corridor, Transylvanian Tableland, Romania)
- 19:00 Kuznyetsov S., O. Marushevska – Ecological corridors Network in Ukraine – Problems of Establishment and Running
- 19:15 Discussion
- 19:30 End of Session
- 20:00 Cultural Event: Visit to the medieval fortress in Veliko Turnovo
- 20:30 *Dinner – Arbanasy Residence*

**Tuesday, September 6<sup>th</sup>, 2005 (Hotel Veliko Turnovo, Conference Hall 1)**

**Workshop 2 (continuation):**

***Research Results from National Participants***

*Chairman: Zagars J. (Latvia)*

*Rapporteur: Marushevska O. (Ukraine)*

- 08:30 Sopadze G. Landscape Ecological Estimations of Area along AGT Pipelines and the Identification of Sensitive Sites
- 08:45 Nurlu E. Strategy for Sustainable Land Use in Karaburun Peninsula – Turkey
- 09:00 Blaschke T. Landscape in Transition: Characterising Urbanisation beyond Quantification
- 09:15 Jankauskas B. Stabilisation of Physical Soil Degradation and Retention of Natural and Human Resources on the Undulating Landscape
- 09:30 Petrosillo I. Economic Valuation of Ecosystem Services in a Natural Protected Area
- 09:45 Krauze K. Ecohydrology as a Tool for Sustainable Catchment Management (Central Poland Case Studies)
- 10:00 Nikolova M. Landscape Sensitivity to the Natural Hazards in the Yantra River Basin
- 10:15 Nedkov S. Landscape Analysis in the Yantra Basin on the Base of Monitoring System
- 10:30 Discussion
- 10:45 Coffee Break

**11:15 Workshop 3, Conference Hall 1:**

***NATO/CCMS Pilot Study Final Report for Landscape Sciences***

- 11:15 Kepner W. and F. Muller - Final Report Outline and Timeline
- 12:00 Discussion

12:30 *Lunch*

- 13:30      **Workshop 4 – Field trip**
- Environmental Quality, Tourism and Landscape Management in the Yantra Catchment***
- 14:00      A water quality sampling: Yantra at Veliko Turnovo -  
Mobile Lab of the RIEW - V. Turnovo
- 15:30      Drianovo – Eco and religious tourist center
- 17:00      Gabrovo - Etara (Open air ethnographic museum)
- 18:30      Socolski monastery
- 19:00      Bojentsi – Village museum
- 20:00      Dinner in Kmetovtsi village, Restourant “Fenerite”

**Wednesday, September 7<sup>th</sup>, 2005**

**(Hotel Veliko Turnovo)**

**Workshop 5, Conference Hall 1:**

***Automated Geospatial Watershed Assessment (AGWA) training***

- 08:30      Registration of the AGWA participants
- 09:00      Kepner W. Introduction, AGWA project background, insights into the history and objectives the project
- 09:30      Semmens D. Instructor: Demonstration of AGWA, and its constituent models:KINEROS2 and SWAT. Description of model inputs and outputs, and how they can be derived from international data sources.
- 10:30      Hydrologic modeling background, lumped vs. distributed,continuous vs. event, empirical vs. physically-based models, and model limitations
- 11:00      *Coffee Break*
- 11:30      AGWA training exercise # 1 – San Pedro River, Arizona
- 13:30      *Lunch*
- 14:30      Deriving model inputs from GIS data: processes, assumptions, customization, and limitations.
- 15:00      Using AGWA with other GIS – based tools: ATtILA, BASINS, etc.
- 15:30      *Coffee Break*
- 16:00      AGWA training exercise #2 – Yantra River Basin, Bulgaria
- 18:30      Concluding remarks and discussion
- 19:00      End of session
- 20:00      Cultural event: Visit in the Architecture reserve Arbanasy village.
- 20:30      *Dinner – Restourant “Izvora”, Arbanasy*

**Wednesday, September 7<sup>th</sup>, 2005**

**(Hotel Veliko Turnovo)**

**Workshop 6, Conference Hall 2:**

***Discussion of the Final Report***

09:30 Discussion on the Final Report

11:00 *Coffee Break*

11:30 Discussion on the Final Report

12:30 Concluding remarks

13:30 *Lunch*

14:30 Discussion on Future NATO/CCMS Projects (F. Muller and W. Kepner)

15:30 *Coffee Break*

16:00 Discussion on Future NATO/Advanced Research Workshop (W. Kepner and G. Zurlini)

17:00 Concluding remarks

19:00 End of session

20:00 Cultural event: Visit in the Architecture reserve Arbanasy village.

20:30 *Dinner – Restaurant “Izvora”, Arbanasy*

**Thursday, September 8<sup>th</sup>, 2005 (Hotel Veliko Turnovo, Conference Hall 1)**

**Conclusive session, Conference Hall 1**

*Chairman: Jones B. (USA)*

*Reporteur: Staneva M. (Bulgaria)*

08:30 Semmens D. Final Results from the AGWA Training

09:30 Muller F. Consequences from the other discussions concerning the contributions

10:30 *Coffee Break*

11:00 Kepner W. and F. Muller - Final Report: concrete planning, work packages, timetable, and structure  
Location of the Final Pilot Study meeting (2006)

12:00 Muller F. and W. Kepner – Future CCMS Study and ARW?

12:30 Discussion of the Future Tasks

12:45 End of the meeting

12:45 *Lunch*

14:00 Departure from Veliko Turnovo.