

17–20 SEPTEMBER 2007, POLČANA MAD DETVOU, SLOVAKIA

SLOVAK BIOCLIMATOLOGICAL SOCIETY AT THE SLOVAK ACADEMY OF SCIENCES  
CZECH BIOCLIMATOLOGICAL SOCIETY  
TECHNICAL UNIVERSITY ZVOLEN  
NATIONAL RESEARCH CENTRE FOREST RESEARCH INSTITUTE ZVOLEN  
INSTITUTE OF FOREST ECOLOGY, SLOVAK ACADEMY OF SCIENCES ZVOLEN  
RESEARCH STATION TATRA NATIONAL PARK TATRANSKÁ LOMNICA  
INSTITUTE OF GEOPHYSICS, SLOVAK ACADEMY OF SCIENCES BRATISLAVA  
INSTITUTE OF HYDROLOGY, SLOVAK ACADEMY OF SCIENCES BRATISLAVA  
SLOVAK HYDROMETEOROLOGICAL INSTITUTE BRATISLAVA  
FACULTY OF HORTICULTURE AND LANDSCAPE ENGINEERING  
OF THE SLOVAK AGRICULTURAL UNIVERSITY NITRA  
FACULTY OF MATHEMATICS, PHYSICS AND INFORMATICS  
OF THE COMENIUS UNIVERSITY BRATISLAVA

## INTERNATIONAL SCIENTIFIC CONFERENCE

under the auspices of Prof. Dr. Ján Tuček  
Rector of the Technical University in Zvolen

# BIOCLIMATOLOGY AND NATURAL HAZARDS



slovenská bioklimatologická spoločnosť  
slovak bioclimatological society

## **STEERING COMMITTEE**

- Prof. Dr. Ján Tuček**  
rector of the Technical University Zvolen (SK)
- Prof. Dr. Jaroslav Škvarenina**  
chairman of the Slovak Bioclimatological Society, Technical University Zvolen (SK)
- Dr. Jaroslav Rožnovský**  
chairman of the Czech Bioclimatological Society, the Czech Hydrometeorological Institute Brno (CZ)
- Prof. Dr. Július Novotný**  
general director of the National Forest Centre, Zvolen (SK)
- Assoc. Prof. Dr. Jozef Mindáš**  
general director of the Forests of the Slovak Republic, state enterprise, Banská Bystrica (SK)
- Dr. Jozef Valka**  
director of the Institute of Forest Ecology SAS Zvolen (SK)

## **SCIENTIFIC COMMITTEE**

- Dr. Horst H. Gerke**  
ZALF Müncheberg (D)
- Dr. Axel Kleidon**  
Max Planck Institute for Biogeochemistry Jena (D)
- Prof. Dr. Jörg Matschullat**  
TU Bergakademie Freiberg (D)
- Prof. Dr. Tadeusz Niedzwiedz**  
University of Silesia Katowice (PL)
- Prof. Dr. Michal Marek**  
Academy of Sciences of the Czech Republic Brno (CZ)
- Dr. Kalman Rajkai**  
Research Institute for Soil Science and Agricult. Chemistry, HAS Budapest (H)
- Prof. Dr. Milan Lapin**  
Comenius University Bratislava (SK)
- Dr. Viliam Novák**  
Institute of Hydrology SAS Bratislava (SK)
- Prof. Dr. Ján Tomlain**  
Comenius University Bratislava (SK)
- Prof. Dr. František Špánik**  
University of Agriculture Nitra (SK)
- Dr. František Matejka**  
Geophysical Institute SAS Bratislava (SK)
- Prof. Dr. Juraj Ladomerský**  
Technical University Zvolen (SK)
- Prof. Dr. Ján Holécy**  
Technical University Zvolen (SK)
- Assoc. Prof. Dr. Bernard Šiška**  
University of Agriculture Nitra (SK)
- Dr. Lubomír Lichner**  
Institute of Hydrology, SAS Bratislava (SK)
- Assoc. Prof. Dr. Dušan Závodský**  
Slovak Hydrometeorological Institute Bratislava (SK)
- Dr. Tomáš Hlásny**  
National Forest Centre Zvolen (SK)
- Dr. Peter Fleischer**  
Research Station of Tatra National Park Tatranská Lomnica (SK)

## CONFERENCE VENUE

Mountain Hotel Poľana,  
Biosphere Reserve UNESCO Poľana  
Towns: Zvolen – Detva – Hriňová

## ORGANIZATION COMMITTEE

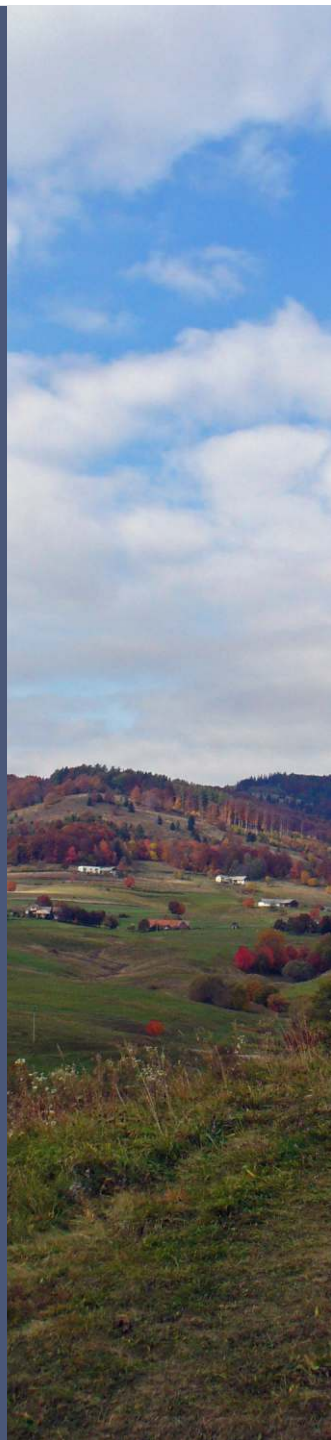
Assoc. prof. Dr. Katarína Strélcová  
Technical University Zvolen (head) (SK)  
**Dr. Ľubica Dítmarová**  
Institute of Forest Ecology SAS Zvolen (SK)  
**Dr. Vladimír Kunca**  
Technical University Zvolen (SK)  
**Dr. Jana Škvareninová**  
Technical University Zvolen (SK)  
**Dr. Miroslav Blaženec**  
Institute of Forest Ecology SAS Zvolen (SK)  
**Dr. Erika Gömöryová**  
Technical University Zvolen (SK)  
**Dr. Tatiana Hurtalová**  
Geophysical Institute SAS Bratislava (SK)  
**Dr. Viera Horecká**  
Slovak Hydrometeorological Institute Bratislava (SK)  
**Dr. Zuzana Sitková**  
National Forest Centre Zvolen (SK)  
**Dipl. Ing. Adriana Skarbová**  
Technical University Zvolen (SK)  
**Dipl. Ing. Lenka Schvarczová**  
Technical University Zvolen (SK)  
**Dipl. Ing. Matúš Hribík**  
Technical University Zvolen (SK)  
**Dipl. Ing. Vladimír Kriššák**  
Technical University Zvolen (SK)  
**František Súkenník**  
director of the Mountain Hotel Poľana (SK)



# POĽANA

**B**ioclimatological conference has been regularly organized in Slovakia and in the Czech Republic annually or biennially since 1980. The aim of the international conference is to discuss exclusively recent research developments in the interactions between meteorological, climatological, hydrological and biological processes in both the atmosphere and soil. Participants are predominantly researchers from the professional research and scientific institutions, as well as from the Slovak, Czech and foreign Universities involved in the topics (processes): atmosphere (meteorology, climatology), soil-atmosphere, hydrologic cycle, ecosystems, biosphere and natural hazards. Keynote lectures from internationally renowned scientists, combined with volunteered papers and posters, will examine the wide range of processes that drive atmosphere – biology/hydrology interactions from the micro- to regional-scale.

The Conference is organized in the Mountain Hotel “Poľana” situated in the attractive area of Biosphere Reserve Poľana of the UNESCO world biosphere reservations, 12 km from the town Hriňová in the district of Detva. Area provides opportunities for winter and summer recreation, for organizing seminars, training and other public activities. Poľana is one of the biggest extincted volcanos of Europe and it is the highest volcano mountain in Slovakia, the country distinct for its unusual natural heritage. Due to the difference in altitude (950 m) and different weather conditions there are huge varieties of thermophilic and mountainous species of plants and animals. Important parts of biotic nature and unique structure of the country lead UNESCO to list this territory as a preserved country area Poľana under the net of the UNESCO world biosphere reserves. The mountain peak Poľana 1450 m a.s.l. is the dominant of the whole area named PODPOLANIE. Rock cliffs, which are memento of lava flows, or of created lateral craters, diversify the country beneath Poľana. Sparse settlements, as a specific feature of the area, remain such right up to today. There are many nice towns under the mountain Poľana: Hriňová, Detva, Zvolen, Banská Bystrica, Čierny Balog. This environment is convenient for organizing scientific conference in the field of bioclimatology.





## THE OBJECTIVES, CONFERENCE ITEMS AND SESSIONS

Anthropogenic influence upon the atmosphere, hydrosphere, lithosphere, cryosphere and biosphere and the risk of rapid climate change represent the most serious impacts on the ecosystems and the natural environment recently. Bioclimatology, agrometeorology, zooclimatology, human and technological bioclimatology, hydrology, biohydrology, ecophysiology are considered as the important scientific branches with wide apply in the forestry, agriculture, water management, environment protection, and in protection against natural hazards. The Conference scientific program is divided into the sessions as follows:

- Bioclimatology (convened by Assoc. Prof. Mindáš & Dr. Kleidon)
- Climatic changes, weather extremes (Prof. Lapin & Prof. Matschullat)
- Natural hazards (Prof. Holécy & Dr. Fleischer)
- Ecophysiology and fenology (Prof. Marek & Assoc. Prof. Střelcová)
- Agrometeorology (Assoc. Prof. Šiška & Assoc. Prof. Žalud)
- Hydrology and pedology (Dr. Novák & Dr. Rajkai)
- Biohydrology (Dr. Gerke & Dr. Lichner)
- Human bioclimatology and animal bioclimatology (Prof. Matzarakis & Dr. Čabajová)
- Air pollution and technological bioclimatology (Prof. Škvarenina & Assoc. Prof. Závodský)
- Geofactors and the environment (Prof. Ladomerský & Dr. Matejka)
- GIS application in bioclimatology and landscape ecology (Assoc. Prof. Voženílek & Dr. Hlásny)

All presented papers will be published in the CD Proceedings. One page English Abstracts will be published in the printed Proceedings. The conveners will address the authors of excellent and novel contributions for publishing the full-text papers (in English) in the journals *Biologia* and *Meteorological Journal*.

# CONFERENCE PROGRAM

## MONDAY 17. 9. 2007

- From 10.00 Registration and the lunch according to the request  
14.00–17.30 Conference opening and the Plenary session  
From 16.00 The posters set up  
18.00–19.00 Dinner  
19.00–22.00 Common session of the Slovak and the Czech Bioclimatological Societies  
19.00–22.00 Individual program (wellness – swimming pool, sauna, billiard, bar...)

## TUESDAY 18. 9. 2007

- 08.00–09.00 Registration  
09.00–12.00 Scientific program 1 (3 parallel sessions)  
12.00–13.30 Lunch  
13.30–16.00 Ecology – landscape excursion – National reserve Poľana  
16.15–17.15 Poster presentations  
18.00–22.00 Barbecue party with folklore music

## WEDNESDAY 19. 9. 2007

- 09.00–12.00 Scientific program (3 parallel sessions)  
12.00–13.30 Lunch  
13.30–17.00 Scientific program (3 parallel sessions)  
17.00–17.45 Conference Closure  
19.00 Conference Dinner

## THURSDAY 20. 9. 2007

- 09.00–15.00 Ecology-landscape excursion:  
Wind throw and forest regeneration, historical forest railway – Čierny Balog, Forestry museum – Vydrovská valley



## ACCOMMODATION, REGISTRATION FEES, TIME TABLE

### Accommodation:

Polana Hotel\*\* 1 night for 1 person in 2-beds room: 300 SKK (8 EUR)  
Polana Hotel\*\* 1 night for 1 person alone in 2-beds room: 600 SKK (16 EUR)

*Accommodation is possible also in the hotels in town Zvolen 50 km from the place of Conference. Higher quality of accommodation you can find for example nearby Sliac airport [www.hotelkaskady.sk](http://www.hotelkaskady.sk) (hotel\*\*\*\*) (but 60 km from the place of Conference).*

### Food:

Polana Hotel full board: 460 SKK (12 EUR)  
*(details on food will be presented since June 1<sup>st</sup>, 2007).*

Conference fee payment up to 31. 5. 2007: 100 EUR

Conference fee payment after 31. 5. 2007: 120 EUR

*The Conference fee includes organizational and publishing expenses (full paper CD and short Abstract Proceedings).*

### Foreign participants:

Bank Account No.: IBAN: SK180900000000011467116

SWIFT: GIBASKBX (Bank: Slovenská sporiteľňa, a. s., Bratislava)

Bank Account owner: SBkS pri SAV, Jurigovo nám. 3, Bratislava

### Deadlines:

Registration and Abstract: 15<sup>th</sup> March 2007 (1-page Abstract),

2<sup>nd</sup> Announcement: 15<sup>th</sup> April 2007

Conference fee payment: 31<sup>st</sup> May 2007

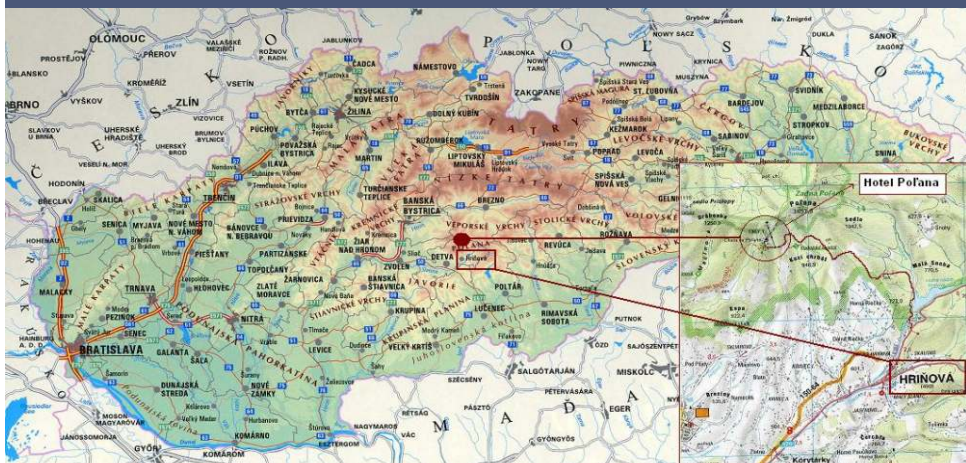
Full text paper: 15<sup>th</sup> June 2007 (to send by E-mail)

Slovak, Czech and English are considered as Conference languages. Short (1-page Abstracts will be published in the Proceedings booklet only in English). Oral presentations will be in English with some exceptions mentioned in the 2<sup>nd</sup> Announcement.

The full text papers published in CD Proceedings will be in one of 3 languages (Slovak, Czech, or English) with short English Abstracts.

The maximum volume of paper on CD is 20 pages and 8 MB (more in the 2<sup>nd</sup> Announcement).

*Tourist dress and footwear are recommended for the excursions planned. Swimming pool and sauna, as well as bar, tennis court and billiard are available in the hotel.*



## SECRETARIAT

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Detail information about Hotel Poľana <http://www.polana.sk/> or <http://www.hotely.sk/en/horsky-hotel-polana-1235>