

### 3. 21<sup>st</sup> SPELEOLOGICAL SCHOOL

Cieszyn-Morawski Kras, 7-13.02.2002(Poland-Slovania)

By Andrej Tyc (University of Silesia, Poland)

The Speleological School was organized by  
Laboratory of Research and Documentation of Karst Environment;  
Department of Geomorphology, University of Silesia;  
Authority of the Moravian Karst Landscape Park;  
Caves Administration of Moravian Karst;  
and Zbrasov Aragonite Caves

With agenda as followed:

#### February 7<sup>th</sup>, 2002

- 10.30 a.m. Departure of participants from the Faculty of Earth Sciences, University of Silesia in Sosnowiec
- 11.30 a.m. Departure from Katowice (the main building of the University of Silesia). Transfer all participants to Cieszyn. Lodging in Hotel "Academicus" and Conference Centre.
- 3 p.m. Opening ceremony of the 21st Speleological School - official addresses of Prof. M. Pulina (President of the School), Prof. J. Janeczek (v-ce Rector of the University of Silesia, Honorary President of the School), Prof. A. Kopoczek (Cieszyn Branch of the University of Silesia), Prof. A.T. Jankowski (Dean of the Faculty of Earth's Sciences, University of Silesia)
- 3.30-5.30 p.m. Scientific session dedicated to geology and geomorphology of karst areas supervised by Prof. A. Rozkowski (University of Silesia) i Prof. Yuan Daoxian (institute of Karst Geology - Guilin)
- Y. Daoxian - Geology and geohydrology of karst and its relevance to society
- P. Bosak - Paleomagnetism and magnetostratigraphy of cave sediments: the state of the art
- J. Glazek, H. Hercman, P. Prunar, P. Bosak - Age and origin of the Belanska Cave in Tatra Mts.

#### February 8<sup>th</sup>, 2002

- 9 a.m.-1 p.m. Scientific session dedicated to glacier caves and related phenomena in glaciers supervised by Prof. M Grzes (University of M. Kopernik, Torun), Prof. J.O. Hagen (University of Oslo) and Prof. J. Jania (University of Silesia)
- J. Pereyma - Air circulation fluctuations in the Atlantic Arctic and Sub-Arctic as a factor influencing glacier changes
- Y. Macheret - Water content in glaciers: methods and results of radar studies
- J. O. Hagen - New assessment of the mass balance of Svalbard ice masses
- M. Grzes - Growing and decay of naled ice patches in the Kaffiøyra region, Spitsbergen
- W.E. Krawczyk, P. Glowacki - Influence of chemical composition of rainfalls in Hornsund on chemical denudation processes
- J. Jania - Geometry changes of Spitsbergen glaciers - causes and some consequences

- 1.15 - 2 p.m. Poster session supervised by Dr. J. Pereyma (University of Wrocław) – part 1 dedicated to Polar Regions and denudation in different morphogenetic zones
- M. Grabiec - Changes of snow cover on Aavatsmark Glacier's equilibrium line altitude in the light of meteorological data
- M. Grzes, B. Pawlowski - Features of lowland river's icing
- M. Grzes, I. Sobota - The influence of winter snow accumulation on the ice-mass balance of the Waldemar Glacier in the period of 1996-2001
- J. Jania, M. Grabiec, A. Lulek - Morphological factors influencing snow accumulation on the Kaffioryra plain
- L. Kolondra - New photogrammetric studies of the South Spitsbergen glaciers
- B. Nikiel - Changes of snow chemical properties in the area of Vistula basin (Silesian Beskides)
- M. Zalewski, M. Gorski - Polish Polar Station in Hornsund (2001-2010)
- M. Zajackowski - Estimation of fresh water outflow from the Kongsbreen front and its implication on suspended solids and zooplankton mortality (Kongsfjorden, NW Spitsbergen)
- 6.30 Social meeting in Gallery of the Branch of the University of Silesia with participation of the University's authorities as well as professors and students of the Faculty of Pedagogic and Art. The Early Music Ensemble "Agere Gratias Antiqua" performed a concert on the meeting.

### **February 9th, 2002**

9 a.m. - 1 pm. Scientific session dedicated to memory of geologist, member of the Editorial Board of "Kras i speleologia", Professor Stanislaw Dzulynski, supervised by Prof. J. Glazek (University of A. Mickiewicz, Poznan)

Remembrance of Professor Stanislaw Dzulynski activity on the field of:

- Karst studies - M. Pulina (University of Silesia)
- Karst geology - J. Glazek (University of A. Mickiewicz in Poznan)
- Ores geology - M. Sass-Gustkiewicz (Academy of Mining and Metallurgy, Cracow)
- Sedimentology - A. Slaczka (Jagiellonian University)
- Some warm words about Prof. Dzulynski - M. Cieszkowski (Jagiellonian University)

Scientific session supervised by Prof. M. Sass-Gustkiewicz (Academy of Mining and Metallurgy, Cracow) and Prof. Y. Trzcinsky (Earth' Crust Institute, SB RAS in Irkutsk)

- A. Rozkowski, J. Rozkowski - The hydrogeological environment of Devonian-Carboniferous carbonate complex within the Upper Silesian Block
- J. Cao - The effect of low-grade plants on weathering rates of carbonate rocks
- P. Walsh - The CWM LLWYD outlier, Carmarthenshire, SW Wales- superkarst or non-karst?
- Scientific session supervised by Prof. T. Wiszniowska (University of Wrocław) and Dr. J. Cao (Institute of Karst Geology - Guilin)
- F. Sustersic - Logical levels of tectonic guidance on cave system development with special

regard to the role of "deflector faults".

R. Dobrowolski, S. Terpilowski - New overview of palaeokarst in Upper Cretaceous rocks of Chelm Hill (E Poland)

7.30-8 p.m. Poster session supervised by Dr. A. Mihevc - part II dedicated to karst and speleology researches

I. Baron - Speleogenesis along subvertical joint, a case: karst shafts of the Dolny Vrch Plateau (Slovak Republik).

A. Chwalik - Morphometric characteristics of karst features in the area of Wiślica

E. Dumnicka - Troglobionts adaptation to life in caves

M. Dziubiel, A. Zaleska, J. Stawierej, J. Hajduk - Studies of groundwater system in caves: Wodna pod Pisana and Wodna pod Raptawicka Turnia

B. Hibszer, J. Partyka, M. Pulina - Differentiation of water chemical composition in epikarst

G. Klys, Z. Caputa, P. Gula - Ecoclimatic studies in the Tarnowskie Gory underground-mine galleries

V. Krzaczek - Some karst forms used by agricultural activity (preliminary studies)

T. Lekarski, J. Rehak, J. Piasecki - Relationship between discharge of Mlecny Pramen karst stream and infiltration water

C. Okon - Hydrologic peculiarity in the Wiercica catchment area (Cracow-Czestochowa Upland)

J. Partyka - Polish-Ukrainian cooperation (Ojcbw National Park - Miodobory National Park)

J. Rozkowski, M. Lesniok, W.E. Krawczyk, J. Motyka, K. Rozkowski - Sulphates in rainwater and groundwater of the karst environment of the Cracow Upland

O. Zeman, J. Bruthans, I. Balak, M. Kovarik - Trace experiment - Lopac 2001-2002

8 p.m. Remembrance evening of Professor Vladimir Panos - Honorary President of Czech Speleological Society, Founder of the Speleological Schools and member of the Editorial Board of "Kras i speleologia" prepared by P. Bosak, J. Rehak, J. Zelinka and A. Tyc. Obituary of V. Panos has been presented by Dr. P. Bosak

### **February 10<sup>th</sup>, 2002**

9 a.m. - 1 p.m. Scientific session dedicated to karst ecosystems and hydrology supervised by Prof. E. Sklarov (Earth' Crust Institute, SB RAS in Irkutsk), Prof. F. Sustersic (University of Ljubljana) and Dr. Pavel Bosak (Czech Academy of Sciences, Praga)

B. Zhou - Karst and biodiversity at Jinpo Mt. Area, Congqing, China

A. Mihevc - Karst denudation- some evidences from Slovenia

G. Barczyk - Trace experiments in Tatra's karst springs

V. Andrejchuk, A. Klimchuk - Geochemical effects of microorganism's activity in gypsum caves (on example of the Zolushka Cave, Ukraine)

V. Korzhyk - Zolushka Cave - 25 years of exploration. Theoretical and practical results, perspectives

G. Lesinsky - Results of prolongation methods utilized in Slovak Karst

B. Komac - Some geomorphological and geological characteristics of Rovtarske žibrše, W Slovenia

1.30 p.m. The end of the polish part of the School

8 p.m. Presentation of diapositives and reports

A. Mihevc - 13th Congress of Speleology - Brasil 2001 (report and diapositives)

A. Tyc - Conference "China Karst 2001" and Workshop of IGCP 448 - China 2001 (report and diapositives)

### **February 11<sup>th</sup>, 2002**

9.30 a.m. Departure from Cieszyn to the field session in Czech Rep.

1.30 p.m. Geology, origin and therapeutic use of Zbrasov Aragonite Show Caves - Teplice n. Bečvou near Hranice (supervised by B. šimečkova), excursion to the Hranice Abyss

6 p.m. Arrival to the hostel "Utulna u Macochy, lodging

### **February 12<sup>th</sup>, 2002**

9-12 a.m. Sloupsko-Sosuvské Caves and Kulna Cave (geology, palaeontology and tourist use) supervised by Dr. I. Balak

0-6 p.m. Caves of Krztiny valley and history of iron works in karst area of Babice Plateau (supervised by Dr. I. Balak). Visit of Vypustek Cave (more than 80 years of use for military purposes, abandon military station), Jachymka, Mariánská, Old and New Dratenická caves (examples of long term use of cave environment for human activity - exploitation of phosphate clays as fertilizers, early 20 century show caves and military use), Byčí Skála Cave (archaeology, palaeontology, and military use of cave – spring area of Jedovnice stream), historical exploitation of iron ores in karst and iron works - project of Iron Pathway of the Moravian Karst (open air museum of iron works)

### **February 13<sup>th</sup>, 2002**

9.30 a.m. Visit of Balcarka Show Cave supervised by the authorities of the Moravian Caves Administration. The end of the field session in the Moravian Karst and transfer by bus to Cieszyn and Katowice.