

Fifth International Meeting

**HEAT FLOW
AND THE STRUCTURE
OF THE LITHOSPHERE**

**PROGRAMME
LIST OF PARTICIPANTS
ABSTRACTS**

*June 10-16, 2001
Kostelec nad Černými Lesy, Czech Republic*

***Fifth International Workshop on
Heat Flow and the Structure of the Lithosphere
Kostelec castle, Czech Republic
June 10-16, 2001***

GENERAL DAILY TIME-TABLE

7:30-8:30 Breakfast
9:00-10:30 Morning session I (90 minutes)
10:30-11:00 Coffee break
11:00-13:00 Morning session II (120 minutes)
13:00-14:00 Lunch break
14:00-16:00 Afternoon session (120 minutes)
16:00-16:30 Coffee break
16:30-18:00 Poster session (90 minutes)
18:30-20:00 Dinner

SOCIAL PROGRAMME

Sunday, June 10, 2001

Dinner (cold buffet) after arrival at approx. 20:00

Monday, June 11, 2001

Ice Breaker meeting (after dinner at approx. 20:30)

Tuesday, June 12, 2001

IHFC meeting and general discussion (at 20:00)

Wednesday, June 13, 2001

B-B-Q dinner and beer party at 19:00 (castle garden)

Thursday, June 14, 2001

Concert at the castle chapel at 20:00

Friday, June 15, 2001

Visit to Kutna Hora, departure after lunch at 14:00

Evening (20:00) Farewell party

Saturday, June 16, 2001

Departure for Prague (after breakfast)

STRUCTURE OF THE WORKSHOP

BAS-session - Temperature and heat flow data in basins, thermal evolution of basins, modelling, sedimentation and heat flow correction, gas hydrates.

Chairpersons: Andrea Foerster and Suzanne Hurter

CLI-session - Climate and boreholes, inversion of temperature data for GST reconstruction, long-term temperature monitoring in boreholes, recent to Pleistocene climate changes, recent warming, geothermal/meteorological data, air/soil temperature coupling, permafrost studies (sponsored by the IGCP 428 programme).

Chairpersons: Hugo Beltrami and Trevor Lewis

FLU-session - Convection/conduction, fluid transport, geothermal reservoirs, heat flow and hydrogeology, search for geothermal resources.

Chairpersons: Christoph Clauser and Makoto Taniguchi

LITH-session - Heat flow: new data and measurements, interpretation of heat flow, local and regional heat flow patterns, geothermal modelling, crustal and lithosphere geothermics, vertical variation of heat flow, deep drilling, heat flow x heat production, heat flow data base.

Chairpersons: Ilmo Kukkonen, Jean-Claude Mareschal and William Gosnold

MAR-session - Marine heat flow data, their measurements and interpretation.

Chairperson: Heinrich Villinger

PTR-Session: - Thermophysical and petrophysical data and deep drilling.

Chairpersons: Thomas Kohl and Yuri Popov

SCIENTIFIC PROGRAMME

Monday, June 11, 2001

LITH-session : full day

Chairpersons : Ilmo Kukkonen, Jean-Claude Mareschal and William Gosnold

ORAL PRESENTATIONS

Gosnold, W.D., Jr. and Panda, B,

GREATER UTILITY FOR THE GLOBAL HEAT FLOW DATABASE (oral)

Chapman David S. and Harris, R.,N.

THERMAL ISOSTASY REVISITED: ASSESSING THE THERMAL STATE OF THE LITHOSPHERE (oral)

Foerster, H.-J. and Foerster, A.

PROCESSES CONTROLLING THE DISTRIBUTION OF HEAT-PRODUCING ELEMENTS IN THE EARTH'S UPPER CRUST (oral)

Mareschal Jean-Claude and Jaupart Claude

HEAT FLOW IN THE WESTERN PART OF THE SUPERIOR PROVINCE, CANADIAN SHIELD (short) Balling Niels

THE LITHOSPHERE BENEATH THE BALTIC SHIELD AND ITS SOUTHWESTERN MARGIN - THERMAL AND SEISMOLOGIC CONSTRAINTS (short)

Kukkonen Ilmo T.,

MANTLE XENOLITHS AND THICK LITHOSPHERE IN THE FENNOSCANDIAN SHIELD (oral)

Roy Sukanta, Kumar P. Senthil, Ray Labani, Reddy G.Koti and Srinivasan, R.,

HEAT FLOW IN THE SOUTHERN INDIAN PRECAMBRIAN GRANITE-GREENSTONE AND GNEISS-GRANULITE PROVINCES: NEW DATA AND INTERPRETATION (short)

Pasquale, V., Verdoya, M. and Chiozzi, P.,

THERMAL AND SEISMIC ENERGY IN THE SOUTHERN TYRRHENIAN MARGIN (short)

Bezverkhny, V.L., Pack, V.V. and Nabiullin, A.A.

FLUIDODYNAMICS AND STRUCTURAL EVOLUTION OF THE WEST PACIFIC TRANSITION ZONES LITHOSPHERE (oral, may be cancelled)

Kohl Thomas and Rybach Ladislaus,

RECENT RESULTS AND INTERPRETATION OF TEMPERATURE DATA OF THE NEW ALPINE TRANSVERSE (NEAT) IN SWITZERLAND (oral)

Parphenuk Olga I.,

THERMAL-MECHANICAL MODELS OF CONTINENTAL COLLISIONAL ZONES (COMPARATIVE STUDY) (short)

Wilhelm, H.,

ESTIMATED UNDISTURBED TEMPERATURE IN THE KTB MAIN DRILLHOLE (short)

Miguel Muñoz

GEOOTHERMS AND RHEOLOGICAL PROFILES OF THE CENTRAL ANDES AND THE CHACO PLAIN (short)

POSTER PRESENTATIONS

Golovanova, I.V. and Kukkonen, I.T.,
HEAT FLOW AND RADIOGENIC HEAT PRODUCTION IN THE SOUTHERN URALS
(poster)

Zui Vladimir and Prishchep Dmitry,
HEAT FLOW AND TERRESTRIAL TEMPERATURE FIELD WITHIN THE WESTERN
PART OF THE EAST EUROPEAN PLATFORM (poster)

Ryzhii Boris P., Ryzhii Boris B. and Milanovsky Svet,
PLATE SEISMICITY AND PETROLOGY OF THE CONTINENTAL CRUST (poster)

Gosnold, William, D., Jr., and Peterson Erica, M.,
HYDRO-ISOSTATIC FLEXURE OF THE DEVILS LAKE BASIN (poster)

Safanda Jan and Correia Antonio,
CRUSTAL TEMPERATURES IN THE SOUTHERN PORTUGAL (poster)

Okubo Yasukuni, Matsushima Jun and Correia Antonio,
CURIE POINT ANALYSIS IN PORTUGAL AND ITS ADJACENT SEAS (poster)

Popov Yu., Clauser Chr. And Romushkevich R.,
GEOTHERMAL CHARACTERISTICS OF THE STRATA SURROUNDING THE KOLA
SUPERDEEP WELL SG-3 (poster)

Vosteen Hans-Dieter, Clauser Christoph and Lammerer Berndt,
THE THERMAL REGIME OF THE EASTERN ALPS ALONG THE TRANSALP CROSS-
SECTION: ROCK PHYSICS, BOOTSTRAPPING AND FE-MODELING (poster)

Tuesday, June 12, 2001

BAS and PTR sessions : full day

Chairpersons : Andrea Foerster and Suzanne Hurter (for BAS)
 Thomas Kohl and Yuri Popov (for PTR)

BAS ORAL PRESENTATIONS

Förster, Andrea
USING INDUSTRIAL TEMPERATURE DATA IN BASIN THERMAL STUDIES (oral)

Lotz, B. and Foerster, A.
REVISITING HEAT FLOW IN THE NORTHEAST GERMAN BASIN (short)

Veliciu Serban,
MODELLING GEOTHERMAL EVOLUTION OF THRUSTED AREAS: EASTERN
CARPATHIANSFLYSCH ZONE (short)

Lewis T.J., McGee T.M. and Brooks, J.M.,
GEOTHERMAL OBSERVATIONS OF GAS HYDRATE: GULF OF MEXICO (short)

BAS POSTER PRESENTATIONS

Hurter Suzanne and Huenges Ernst

THE IN-SITU GEOTHERMAL LABORATORY IN GROSS SCHOENEBECK (poster)

Majorowicz Jacek, Wroblewska Marta, Szewczyk Jan and Krzywiec Piotr,

HEAT FLOW MODELS ACROSS THE TRANS-EUROPEAN SUTURE ZONE IN THE AREA OF THE POLONAISE 97 INTERNATIONAL SEISMIC EXPERIMENT - POLISH LOWLAND (poster)

Irovska, J., Cermak, V., Kober, M.

BOREHOLE TEMPERATURE DATA AND HEAT FLOW IN THE CHEB BASIN (WEST BOHEMIA) (poster)

Kobolev V.P., Kutas R.I., Paliy S.I.,

HEAT FLOW AND GAS AND FLUID SEEPS IN THE NW PART OF THE BLACK SEA (poster)

Kutas Roman, I.,

HEAT FLOW AND THERMAL EVOLUTION MODEL OF THE DONETS BASIN (poster)

Rajver Dusan and Ravnik Danilo,

GEOTHERMAL CHARACTERISTICS OF THE KRSKO BASIN, SLOVENIA, BASED ON GEOPHYSICAL RESEARCH (poster)

PTR ORAL PRESENTATIONS

Popov Yu., Tertychnyi V., Romushkevich R., Korobkov D. and Pohl, J.,

CORRELATIONS BETWEEN THERMAL CONDUCTIVITY AND OTHER PHYSICAL PROPERTIES OF ROCKS (short)

Seipold U., Tommasi A., Gilbert B. and Mainprice D.,

THE BEHAVIOUR OF THE THERMAL TRANSPORT PROPERTIES AT THE CRUST-MANTLE BOUNDARY (short)

Hurtig E., Grosswig S. and Kuehn K.,

FIBRE OPTIC TEMPERATURE SENSING: RESULTS AND CHANCES FOR TEMPERATURE AND THERMAL GRADIENT MEASUREMENTS IN SHALLOW AND DEEP BOREHOLES (oral)

PTR POSTER PRESENTATIONS

Joeleht Argo, Kirsimäe Kalle, Shogenova Alla, Sliupa Saulius, Kukkonen Ilmo T., Rasteniene Vita, Zabele Angelina,

THERMAL CONDUCTIVITY OF CAMBRIAN SILICICLASTIC ROCKS FROM THE BALTIC BASIN (poster)

Korobkov D., Tertychnyi V., Popov Yu.,

DETERMINATION OF ROCK THERMAL CONDUCTIVITY ON CORE CUTTINGS (poster)

Popov Yuri and Romushkevich Raisa,

THERMAL CONDUCTIVITY OF ROCK-FORMING MINERALS (poster)

Schellschmidt R., Vosteen H.-D., Deetjen H. and Fesche H.-W.,

INFLUENCE OF TEMPERATURE ON THERMAL CONDUCTIVITY AND THERMAL HEAT CAPACITY FOR DIFFERENT TYPES OF ROCK (poster)

Clauser Christoph, Bartels, J., Kühn, M., Iffland, J., Meyn, V., Pape, H. and Wagner, R.
PETROPHYSICAL STUDIES AND NUMERICAL SIMULATIONS ON ANHYDRITE
CEMENTATION IN GEOTHERMAL AQUIFERS (poster)

Hartmann, A., Rath, V. and Clauser, C.
GEOSTATISTICAL ANALYSIS OF A LARGE SET OF SHALLOW (LESS THAN 2KM)
BOREHOLE TEMPERATURE DATA (poster)

Wednesday, June 13, 2001

MAR and FLU sessions : full day

Chairpersons: Christoph Clauser and Makoto Taniguchi (for FLU)
Heinrich Villinger (for MAR)

MAR ORAL PRESENTATIONS

Villinger Heinrich,
NEW DEVELOPMENTS IN MARINE HEAT FLOW STUDIES (oral)

Grevenmeyer, I., Villinger, H., Kaul, N., K., Hauschild, J. and Pfender, M.,
HEAT FLOW INVESTIGATIONS ON THE EASTERN FLANK OF THE EAST PACIFIC
RISE (short)

Yamano Makoto, Kinoshita Masataka, Goto Shusaku and Matsubayashi Osamu,
HIGH HEAT FLOW IN THE CENTRAL PART OF THE NANKAI TROUGH: IS THE
SUBDUCTING SHIKOKU BASIN LITHOSPHERE ANOMALOUSLY HOT? (short)

Pfender, M. and Villinger, H.,
MEASURING TEMPERATURE GRADIENTS IN DEEP SEA SEDIMENTS USING
MINIATURIZED TEMPERATURE DATA LOGGERS (short)

MAR POSTER PRESENTATIONS

Harris Robert N., Christiansen Lizet, Chapman David S. and Garven Grant,
MARINE HEAT FLOW AT HAWAII: A NEW VIEW OF SEAMOUNTS WITH
IMPLICATIONS FOR GLOBAL HEAT LOSS AND FLUID FLUX (poster)

Lewis TJ., Martinez F., Goodliffe A. and Taylor A.E.,
THE GEOTHERMAL SIGNATURE OF CONTINENTAL RIFTING: WOODLARK BASIN,
PNG (poster)

FLU ORAL PRESENTATIONS

Clauser Christoph, Bartels, Jörn, Kühn Michael and Pape Hansgeorge,
SIMULATING COUPLED FLOW, HEAT TRANSPORT, MULTI-SPECIES TRANSPORT,
CHEMICAL WATER-ROCK INTERACTION FOR LOW-ENTHALPY GEOTHERMAL
RESERVOIRS (short)

Kohl Thomas,
USING SUBSURFACE TEMPERATURE FIELDS AS TRACER OF GEODYNAMIC
MOTION (short)

Clauser, C., Deetjen, H., Hartmann, A., Hoehne, F., Rath, V., Ruehaak, W., Schellschmidt R. and Zschocke, A.,

IDENTIFICATION AND QUANTIFICATION OF PALEOCLIMATIC AND ADVECTIVE SIGNALS FROM MULTIPLE BOREHOLES IN THE WESTERN MOLASSE (GERMANY) (short)

Zschocke, A., Schellschmidt, R. and Rühaak, W.

IDENTIFICATION AND QUANTIFICATION OF CONVECTIVE HEAT TRANSPORT IN THE WESTERN MOLASSE (GERMANY) (short)

Hurter Suzanne and Pribnow Daniel

HEAT AND FLUID FLOW IN LONG VALLEY CALDERA, CALIFORNIA: NUMERICAL MODELS IN THREE DIMENSIONS (short)

FLU POSTER PRESENTATIONS

Clauser Christoph, Bartels, Jörn, Kühn Michael and Pape Hansgeorge,

A NEW AQUIFER SIMULATION TOOL FOR COUPLED FLOW, HEAT TRANSPORT, MULTI-SPECIES TRANSPORT AND CHEMICAL WATER-ROCK INTERACTION (poster)

Zschocke, A., Clauser, C., Deetjen, H., Hartmann, A., Höhne F., Rath V., Rühaak W. and Schellschmidt, R.,

IDENTIFICATION OF GROUNDWATER FLOW - A LARGE-SCALE INVESTIGATION OF SUBSURFACE TEMPERATURES IN GERMANY (poster)

Miyakoshi Akinobu, Uchida Youhei and Sakura Yasuo,

DISTRIBUTION OF SUBSURFACE TEMPERATURE IN KANTO PLAIN, JAPAN, - EFFECTS OF REGIONAL GROUNDWATER FLOW SYSTEM AND SURFACE WARMING (poster)

Dannowski, G. and Huenges, E.

LONG-TERM OBSERVATION OF BOREHOLE TEMPERATURES TO STUDY FLUID TRANSPORT AND HEAT FLOW IN THE VICINITY OF AN ACTIVE MANTLE PLUME (ISLAND OF HAWAII) (poster)

Gettings, P., Allis, R.G., Isherwood, W.F. and Chapman, D.S.,

GEOHERMAL RESERVOIR MONITORING AT THE GEYSERS, USA BY REPEAT PRECISION GRAVITY AND ELEVATION SURVEYS (poster)

Wisian Kenneth W., Blackwell David D. and Richards Maria,

CORRELATION OF SURFACE HEAT FLOW AND TOTAL ENERGY PRODUCTION FOR GEOHERMAL SYSTEMS (poster)

Thursday, June 14, 2000

CLI session, full day

Chairpersons : Hugo Beltrami and Trevor Lewis

ORAL PRESENTATIONS

Pollack Henry, N. and Huang Shaopeng,

TEMPERATURE TRENDS OVER THE PAST FIVE CENTURIES RECONSTRUCTED FROM BOREHOLE TEMPERATURES: SPATIAL AND TEMPORAL PATTERNS (oral)

Kukkonen Ilmo T. and Joeleht Argo,

VERTICAL VARIATION OF HEAT FLOW DENSITY IN THE FENNOSCANDIAN SHIELD AND THE EAST EUROPEAN PLATFORM: ROLE OF WEICHSELIAN PALAEOCLIMATIC EFFECTS (oral)

Chapman David S., Bartlett, M., Putnam, S.N. and Harris, R.N.,

A GEOTHERMAL OBSERVATORY FOR CLIMATE CHANGE STUDIES - THE UTAH EXPERIENCE (oral)

Harris R.N. and Chapman D.S.,

BOREHOLE TEMPERATURES COMBINED WITH SURFACE AIR TEMPERATURE RECORDS YIELD MID-LATITUDE (30°-60° N) CLIMATIC WARMING AND PROVIDE AN INDEPENDENT CHECK ON MULTI-PROXY RECONSTRUCTIONS OF CLIMATE CHANGE (oral)

Majorowicz Jacek and Safanda Jan,

GROUND SURFACE TEMPERATURE HISTORY PATTERNS ACROSS CANADA FROM INVERTED TEMPERATURE PROFILES - INFLUENCE OF CLIMATIC CHANGE AND LAND COVER CHANGES (short)

Demezhko, D.Yu.,

RECONSTRUCTION OF LATE PLEISTOCENE / HOLOCENE PALEOCLIMATE BY GEOTHERMAL DATA (EXAMPLES FROM THE URALS, RUSSIA) (short)

POSTER PRESENTATIONS

Huang Shaopeng and Pollack Henry N.,

INTEGRATED RECONSTRUCTION OF NORTHERN HEMISPHERE SURFACE TEMPERATURE HISTORY FROM BOREHOLE TEMPERATURES AND MULTIPROXY MODELS (poster)

Beltrami Hugo

SURFACE HEAT FLUX HISTORIES FROM INVERSION OF GEOTHERMAL DATA FROM CANADA: ENERGY BALANCE AT THE SURFACE (poster)

Safanda Jan and Majorowicz Jacek,

DETECTION OF THE RECENT CLIMATE SIGNAL IN REPEATED TEMPERATURE LOGS FROM SHALLOW BOREHOLES - AN EXAMPLE FROM CANADA (poster)

Guillou-Frottier, Laurent and Mareschal, Jean-Claude,

BOREHOLES, OREBODIES AND HEAT REFRACTION: IMPLICATIONS FOR HEAT FLOW DENSITY STUDIES AND PALEOCLIMATIC RECONSTRUCTIONS (poster)

Gosnold, W.D., Jr., and LeFever, R.D.,

A POSSIBLE LINK BETWEEN THERMAL ISOSTASY OF OCEAN BASINS AND CLIMATE CHANGE (poster)

Signorelli Sarah and Kohl Thomas,

DETERMINATION OF GROUND SURFACE TEMPERATURE BY METEOROLOGICAL DATA (poster)

Cermak Vladimir, Safanda Jan and Bodri Louise

DOES MAN CONTRIBUTE TO THE PRESENT-DAY CLIMATE WARMING? EVIDENCE FROM THE UNDERGROUND (poster)

Kresl Milan, Safanda Jan and Dedeczek Petr,

SOIL/AIR TEMPERATURE COUPLING MONITORED AT THREE SITES IN BOHEMIA (poster)

Pasquale, V., Verdoya M., Chiozzi, P., Bellani, S.,
TEMPERATURE SIGNAL IN THE UNDERGROUND FOR CLIMATE HISTORY
RECONSTRUCTION IN ITALY (poster)

Kostyanev Stojan, Stoyanov Velislav, Baltakov George, Trapov George and Teneva Silvia
RECONSTRUCTION OF PALEOTEMPERATURES FROM BOREHOLE GEOTHERMAL
DATA IN BULGARIA (poster)

Veliciu Serban and Kutas Roman,
NEW RECONSTRUCTION OF CLIMATIC CHANGES IN THE SOUTHEASTERN
EUROPE USING BOREHOLE TEMPERATURE DATA (poster)

Zui Vladimir and Vantsevich Sergey,
PALEOCLIMATIC RECONSTRUCTIONS AND INVERSIONS FROM THERMOGRAMS,
RECORDED IN THE WESTERN PART OF THE EAST EUROPEAN PLATFORM (poster)

Golovanova, I.V. and Selezniova, G.V.,
IMPLICATIONS OF BOREHOLE TEMPERATURE DATA FOR CLIMATE STUDIES IN
THE SOUTHERN URALS (poster)

Friday, June 15, 2001 (only morning)

CLI session to be finished, remaining time to be used for general discussion

Chairpersons : Hugo Beltrami and Trevor Lewis (for CLI)
David S.Chapman and Vladimir Cermak (for discussion)

ORAL PRESENTATIONS

Gosselin Chantal and Mareschal Jean-Claude,
GROUND SURFACE TEMPERATURE VARIATIONS NEAR THOMPSON, MANITOBA:
ENVIRONMENT AND CLIMATE CHANGES (short)

Sakura Yasuo, Saito Tomoyuki, Taniguchi Makoto and Uchida Youhei,
CLIMATE CHANGE EVALUATED FROM THE REMEASUREMENT OF BOREHOLE
TEMPERATURE PROFILES IN JAPAN (short)

Taniguchi, M., Sakura, Y. and Uchida, Y.
CLIMATE RECONSTRUCTIONS FROM BOREHOLE TEMPERATURES IN
METROPOLITAN CITIES, JAPAN (oral)

Uchida Youhei, Sakura Yasuo, Nagae Ryouji and Anderson Mary P.,
COMBINED EFFECT OF GROUNDWATER FLOW AND CLIMATE CHANGE ON
SUBSURFACE THERMAL REGIME. A STUDY FROM NOBI PLAIN, CENTRAL JAPAN
(short)

Bodri, L. and Cermak, V.
TRENDS IN HIGH FREQUENCY RECENT CLIMATE VARIABILITY (short)

Hartmann, A., Rath, V. and Clauser, C.
IDENTIFYING PALEOCLIMATIC SIGNALS IN BOREHOLE TEMPERATURE LOGS AS
A STEP TOWARDS ISOLATING ADVECTIVE EFFECTS (short)

LIST OF PARTICIPANTS

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