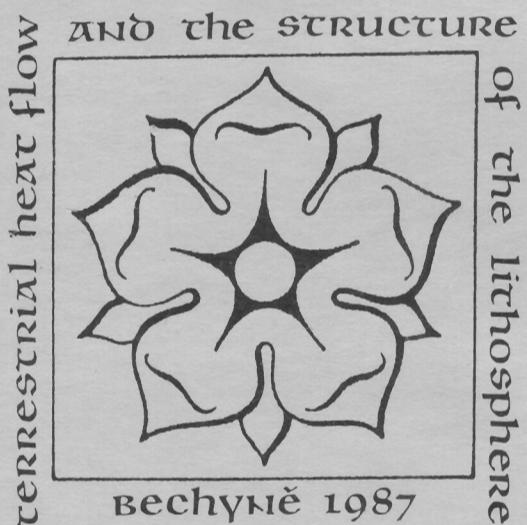


Czechoslovak Academy of Sciences  
GEOPHYSICAL INSTITUTE

International Meeting

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



**Third Circular  
Abstracts**

**BECHYNĚ CASTLE  
CZECHOSLOVAKIA**

**June 1 - 6, 1987**

GENERAL PROGRAMME

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Monday, June 1

all day Arrival in Prague  
Meeting in the Intercontinental Hotel  
14:00 Sightseeing - walking tour to visit the historical parts of Prague  
17:00 Departure for Bechyně by bus  
19:00 Arrival in Bechyně, Accommodation in the castle  
20:00 Dinner

Tuesday, June 2

8:30 Opening Ceremony, Greetings  
9:00 - 12:30 Scientific Programme (Papers and Discussions)  
14:00 - 17:30 Scientific Programme (Cont.)  
evening  
19:00 Bar-be-cue and Beer Party in the Castle garden

Wednesday, June 3

8:30 - 12:30 Scientific Programme  
14:00 - 18:30 Poster session  
evening  
20:00 Concert of Renaissance Music performed by Collegium Flauto Dolce "Of the Treasure of Ancient Music" in Bechyně Castle

Thursday, June 4

8:30 - 12:30 Meeting of the Working Group for Geothermal Atlas of Europe  
14:00 Departure for Prague  
17:00 Supper and common visit of the National Theatre  
19:00 Opera performance "Zuzana Vojířová"  
24:00 Return to Bechyně

Friday, June 5

8:30 - 12:30 Scientific Programme  
14:00 - 18:30 Scientific Programme (Cont.)  
evening  
19:00 Farewell Party - Cocktails in Bechyně Castle

Saturday, June 6

morning Departure for Prague and transport to airport or railway stations  
Departure for Hungary - for participants of the Study Tour "Geothermal Energy Utilization"

S C I E N T I F I C P R O G R A M M E :

T u e s d a y , J u n e 2

- morning      Opening Ceremony
- 8:30      Greetings - Representative of the Czechoslovak Academy of Sciences  
              Prof. A.E.Beck, President of the International Heat Flow Commission
- Short break
- 9:00      General Introduction to Geothermics  
              Chairmen : G.V.Keller and J.-C.Mareschal  
A.E.Beck, The need for a more rigorous approach to geothermal problems (Invited), 30 mins.  
C.Clauser, A bibliography on heat and mass transfer in porous media (Invited), 30 mins.  
C.R.B.Lister, Old ocean lithosphere: does it cool? (Invited), 30 mins.
- 10:30      Coffee break
- 11:00      Basic Problems  
              Chairmen : O.Dottin and T.Lewis  
K.P.Furlong and D.S.Chapman, Crustal heterogeneities and the thermal structure of the continental crust, 20 mins.  
G.Ranalli, Regional variations in lithosphere rheology from global heat flow and crustal thickness data, 20 mins.  
J.-C.Mareschal and Y.Hamdani, Downward continuation and inversion of heat flow data, 20 mins.  
J.P.Cull, Geothermal gradients and rheological profiles in Australia (Invited), 30 mins.
- 12:30      Lunch break
- afternoon
- 14:00      Basic Problems (Cont.)  
              Chairmen : C.R.B.Lister and Y.Kono  
L.Rybáč and V.Čermák, Heat production and a petrological model of the continental crust (Invited), 30 mins.  
Y.Kono, A hypothesis on the heat flow equality over oceans and continents, 20 mins.  
D.S.Chapman, D.Deming and S.Willett, Analysing and interpreting temperatures in sedimentary basins (Invited). 30 mins.
- 15:20      Coffee break

16:00      Regional Studies -- North America  
Chairmen : L.Rybach and R.Cataldi  
M.J.Drury, Heat flow in relation to other geophysical parameters in the Canadian shield, 20 mins.  
A.M.Jessop, Heat flow in sedimentary basins, 20 mins.  
T.J.Lewis, W.H.Bentkowski, E.E.Davis, R.D.Hyndman, J.G.Souther and J.A.Wright, Subduction of the Juan de Fuca plate: thermal consequences (Invited), 30 mins.  
G.Simmons, Heat flow in New England: implications for crustal models, 20 mins.  
17:30      Finish

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Wednesday, June 3

morning

8:30      Regional Studies (Cont.) -- North America  
Chairmen : R.I.Kutas and J.Cull  
A.M.Jessop, J.A.Majorowicz and F.W.Jones, Thermal regime of the Western Canada Platform, 20 mins.  
E.R.Decker, Heat flow, radioactivity, equilibrium temperatures and lithospheric heat sources in the Southern Rocky Mountains and the Northeastern Appalachian orogen, USA (Invited), 30 mins.  
D.D.Blackwell, Thermal characteristics of the Snake River Plain, Yellowstone Hot Spot, USA, 20 mins.  
Time reserve - 20 mins.  
10:00      Coffee break  
10:30      Regional Studies -- Europe  
Chairmen : E.R.Decker and M.L.Gupta  
N.Balling, Heat flow and lithosphere temperature models of the Baltic shield, 20 mins.  
W.R.Jacoby, Lithosphere structure, heat flow and gravity together with other geoparameters in Central Europe, (Invited), 30 mins.  
D.S.Parasnus, Heat flow density in Sweden, 20 mins.  
Yu.I.Galushkin, R.I.Kutas and Ya.B.Smirnov, Heat flow methods of analysis of the lithosphere thermal structure, European part of the USSR (Invited), 30 mins.  
E.Banda and M.Fernández, Geothermal studies in NE Spain -- a progress report, 20 mins.  
12:30      Lunch break

afternoon

14:00 - 16:00 Poster session  
16:00 Coffee break  
16:30 - 18:30 Poster session  
18:30 Finish

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T h u r s d a y , J u n e 4

morning

8:30 Geothermal Atlas of Europe  
Chairmen : E.Hurtig and K.Tezcan  
General discussions on the project  
10:30 Coffee break  
11:00 General discussions (Cont.)  
12:30 Lunch break  
14:00 Departure to Prague

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F r i d a y , J u n e 5

morning

8:30 Regional Studies -- Europe (Cont.)  
Chairmen : A.R.Deck and W.R.Jacoby  
F.Lucazeau and G.Vasseur, Heat flow density and  
geothermal maps in France, 20 mins.  
J.L.Vigneresse, J.Jolivet, M.Cuney and G.Bien-  
fait, Heat flow, heat production and granite  
depth in Western France, 20 mins.  
F.Mongelli, C.Zito, N.Ciaranfi and P.Pieri,  
Interpretation of heat flow in some Italian  
regions, 20 mins.  
S.Veliciu, Heat flow, heat generation and geo-  
dynamics of an Alpine intracratonic area,  
Northern Dobrogea, 20 mins.  
A.Ádám, Lithosphere of the Pannonian Basin by  
magnetotellurics, 20 mins.  
10:30 Coffee break

- 11:00      Regional Studies -- Europe (Cont.)  
            Chairmen : L.Stegena and D.D.Blackwell  
J.Burrus, Critical discussion of the heat flow  
in N.-W. Mediterranean through quantitative  
modelling, 20 mins.  
B.della Vedova and G.Pellis, Heat flow and sub-  
sidence of the Tyrrhenian and Ionian basins,  
20 mins.  
W.R.Jacoby, Thermal and mechanical aspects of  
lithosphere growth in Iceland, 20 mins.  
Time reserve - 30 mins.
- 12:30      Lunch break
- 14:00      Regional Studies -- Asia  
            Chairmen : D.S.Chapman and F.Mongelli  
A.D.Duchkov, Review of Siberian heat flow data  
(Invited), 30 mins.  
M.L.Gupta, Thermal regime of the Indian peninsula  
and its subjacent lithosphere, 20 mins.  
O.Matsubayashi, Compilation of heat flow in  
Southeast Asia (Invited), 30 mins.  
Shen Xian-jie, High heat flow in South Tibet  
and the thermal structure of the lithosphere,  
20 mins.  
Time reserve - 20 mins.
- 16:00      Coffee break
- 16:30      Regional Studies -- Asia (closing) and  
Miscellaneous  
            Chairmen : Shen Xian-jie and D.S.Parasnus  
I.K.Tuezov, V.D.Epaneshnikov and P.Yu.Gornov,  
Heat flow in the Soviet Far East and in the  
adjacent seas, its connection with the morpho-  
structure, tectonics and crustal structure  
(Invited), 30 mins.  
S.Yu.Milanovski, A.A.Kremenetsky, Yu.A.Popov and  
V.V.Beresin, The contribution of Kola superdeep  
borehole to geothermics, 20 mins.  
A.E.Beck, S.B.Nielsen and P.Y.Shen, Correction  
for non-steady conditions in boreholes, 20 mins.  
A.S.Judge, Climate correction in heat flow stu-  
dies, 20 mins.
- 18:00      Final remarks and closing of the meeting
- 18:30      Finish

P O S T E R      P R E S E N T A T I O N

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T • p i • s :

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- /A/ Global, regional and local heat flow patterns :  
maps and data interpolation  
..... posters nos. 1 through 19
- /B/ Heat flow, thermal regime and lithosphere  
structural models  
..... posters nos. 20 through 42
- /C/ Heat flow and heat production  
..... posters nos. 43 through 47
- /D/ Geothermal data and geothermal developments  
..... posters nos. 48 through 56
- /E/ Thermal parameters cf rocks and their measurements  
..... posters nos. 57 through 61
- /F/ Miscellaneous  
..... posters nos. 62 through 64

LIST OF POSTERS IN ALPHABETICAL ORDER OF THE FIRST AUTHOR

---

Author /s/, Poster Title, /Topics/ .....	Poster number
Babuška V. and Plomerová J., Lithosphere-asthenosphere transition in Central Europe as inferred from seismic P-residuals, /B/ .....	32
Balling N., Models of paleoclimatically induced perturbations of geothermal gradients and heat flow, /F/ .....	62
Blackwell D.D., New geothermal map of North America, /A/ .....	2
Blackwell D.D., Cascade volcanic arc heat flow data, /A/ .....	6
Bodri B., 2D-modelling of lithosphere temperature at the East-Canadian continental margins, /B/ .....	30
Cataldi R., Present situation and future prospects of geothermal development in Italy, /D/ .....	51-56
Čermák V., Krešl M., Šafanda J., Nápoles-Pruna M., Tenreyro-Perez R. and Barceló-Carol G., Review of heat flow measurements in Cuba, /A/ .....	7
Čermák V., Šafanda J. and Guterch A., Deep temperature distribution along three profiles crossing the Teissyyere-Tornquist tectonic zone in Poland, /B/ .....	34
Čermák V., Šafanda J., Kubík J., Krešl M., Kubala P., Vaňková V., Jánčí J., Král M., Lizoň I. and Venhodová D., Terrestrial heat flow in Czechoslovakia - comprehensive review, /A/ .....	11
Chapman D.S., Thermal isostasy : sensing the deep thermal structure of continental lithosphere, /B/....	20

Chapman D.S. and Pollack H.N., Global heat flow revisited, /A/ .....	1
Clauser C., Conductive and convective heat flow in the northern Upper Rhinegraben - can they be separated?, /A/ .....	9
Demetrescu C., Raduleascu F., Polonic C. and Andresscu M., On the lithosphere structure in Romania, /B/ .....	36
Dorofeyeva R.P. and Lysak S.V., Geothermal profiles of the Inner Asia lithosphere, /B/ .....	40
Furukawa M.J., Analysis of the heat flow - heat generation relation, /C/ .....	43
Tuchkov A.D., New heat flow data from the Black sea /A/ .....	16
Ene I., Demetrescu C. and Turst I., On the geothermal regime of the Ieasian Platform and Getic Depression, /A/ .....	14
Farhat C. and Annunziacao M., The cylindrical probe method of measuring thermal conductivity of soils : an experimental study of thermal contact resistance, /E/ .....	60
Furukawa Y. and Iyeda S., Thermal state under the Tohoku arc consideration of crustal heat generation, /C/ .....	47
Gordienko V.V., A three-dimensional thermal model for the tectonosphere, and physical fields in Europe, /B/ .....	33
Ha Luong Tin, Geothermal model and structure of the earth crust in the Hanoi Depression, /B/ .....	41
Jessop A.M., Canadian heat flow data - review, /A/ .....	1
Judge A.S., Heat flow in Arctic North America, /A/ .....	3
Keller G.V. and Skokan C.K., Electromagnetic studies of the interiors of volcanoes, /F/ .....	63
Kocak A., Convective heat discharge from hot springs in Turkey, /D/ .....	50

Kostyanov S., Mathematical models of stationary geo- thermal fields in complex-structured gradient me- dia, /B/ .....	28
Král M. and Majcín D., On the thermal structured and evolution of the Carpathian Lithosphere, /A/ .....	12
Kukkonen I., The heat production map of Finland, /C/ .....	45
Kutas R.I. and Kutas V.V., Thermal regime of the upper mantle and P-wave travel-time residuals in Carpa- thian-Balkan region, /B/ .....	35
Lewis T., Heat flux in the Canadian Cordillera, /A/ .....	5
Lewis T., Villinger H. and Davis B., Thermal con- ductivity measurement of rock fragments using a pulsed needle probe, /E/ .....	59
Luboshits V.M. and Milanovsky S.Yu., Anisotropy of thermal conductivity of rocks, /E/ .....	57
Lucazeau F. and Vasseur G., Heat flow density from West Africa, /A/ .....	8
Mareschal J.-C., Subsidence and heat flow in inter- continental basins and rifted margins, /B/ .....	21
Matsubayashi O., and Kimura S., Modeling of heat flow anomalies associated with shallow heat sources, /B/ .....	29
Matyska C., The thinning of the lithosphere near Hawai obtained from heat flow data, /B/ .....	31
Milanovsky S.Yu. and Nikolaevsk ., Geophysical fields and fracturing of the earth crust, /B/ .....	23
Nagao T. and Uyeda S., On-land heat flow measure- ments in the Northeastern Japan by some new techniques and their geotectonic interpretations, /A/ .....	18
Nielsen S.B., The heat flow - heat production re- lationship : A stochastic approach, /C/ .....	44

Celsner Ch., Crustal geothermics of some geotraverses., /A/ .....	10
Celsner Ch., Possibilities and limits of large scale car-borne infrared measurements, /F/ .....	64
Pavlenkova N.I., The Mohorovič boundary and the mantle heat flow, /B/ .....	22
Parasnis D.S., Thermal parameters of crystalline rocks, /E/ .....	58
Polonic G. and Demetrescu C., The evolution of the Pannonian Depression / Romanian Sector / as derived from subsidence and heat flow data /B/ .....	37
Sychev P.M., Soinov V.V. and Veselov O.V., Heat flow as a indicator of dynamics of deep processes in the marginal seas and island arcs of the North-Western Pacific, /B/ .....	42
Taktikos S. and Fytikas M., Correlation of heat flow with other geophysical data in the Aegean sea and Lesvos island, /A/ .....	15
Tezcan A.K. and Turgay A.I., Geothermal energy exploration in Turkey, and the contribution of geophysical studies, /D/ .....	49
Trubitsyn V.P. and Fradkov A.S., Numerical models of heat convection in chemically heterogenous Earth's mantle, /B/ .....	24
Trubitsyn V.P. and Fradkov A.S., The subcontinental and subocean convection in the upper mantle, /B/ ....	25
Tsvyashchenko V.A., Modelling heat flow of the Crimea - Carpathian region, /B/ .....	39
Tuezov I.K., Epaneshnikov V.D. and Lipina E.N., II Heat flow of the Pacific Ocean, geothermal model of the lithosphere and under-lithospheric part of the north-western sector of the ocean and its geologic-geophysical interpretation, /A/ ....	19

Vandenbergh N., Geothermal data in Belgium. An Update, /D/ .....	48
Vaňková V., Fiala J. and Matějovská O., Moldanubian granulite complex : radioactivity and heat production, /C/ .....	46
Veliciu S., Heat flow map of Romania, /A/ .....	13
Vitorello I., Thermal parameters determined by portable radiometer ; perspectives for heat flow surveys, /E/ .....	61
Zavgorodnyaya O.V., Heat flow and a geothermal model for the tectonosphere beneath the West-European Platform, /B/ .....	38
Zorin Yu.A., Maximal thickness of the lithosphere and heat flow for continents, /B/ .....	27
Zui V.I., On the correlation of heat flow and the structure of continental lithosphere, /B/ .....	26
Zui V.I., Veselko A.V. and Kczel V.P., Heat flow of Orsha depression and adjacent territories, /A/ .....	17

L A D I E S   P R O G R A M M E :

Tuesday, June 2, 1987

- 8:00 Departure
- 10:00 Konopiště, Gothic Castle with collections of hunting trophies, weapons and furniture
- 12:30 Lunch at Konopiště
- 16:00 Orlík Castle, historical expositions and period-furnished salons
- 18:00 Return

Wednesday, June 3, 1987

- 9:00 Departure
- 10:30 Chlum u Třeboně - glass manufactory, exhibition of the production of typical Bohemian glass  
Potential buyers are welcome to visit a special shop
- 12:30 Lunch
- 15:00 Červená Lhota - Renaissance Chateau, with rich interior decoration from 17th to 19th centuries
- 17:00 Return

Thursday, June 4, 1987

- 8:30 Departure - all day visit to Prague
- 12:30 Lunch in a style ale-house
- 17:00 Supper and a common visit of the National Theatre
- 19:00 Opera performance "Zuzana Vojířová"
- 24:00 Return

Friday, June 5, 1987

- 8:00 Departure
- 10:00 Hluboká - richly furnished castle in a romantic "Windsor" style
- 12:30 Lunch
- 13:30 Český Krumlov - town with a historical center under the protection of the UNESCO
- 15:30 Český Krumlov Castle with rich decorated interior and remarkable tapestries woven in Flemish workshops
- 18:00 Return