

PART II

**TITLES OF PAPERS AND POSTERS
PRESENTED AT CONFERENCE**

Oral contributions

Continental Scale Features of Basement Rocks of the European Craton

A. BERTHELTSEN (Copenhagen, Denmark), Invited Speaker

Europe's tectonic accretion and the intraplate origin of the Tornquist Zone

A. ZELAZNIEWICZ (Wroclaw, Poland)

Basement control over cover deformation in the Tatra MTS, West Carpathians Strain-sensitive Mylonite as a recorder of superposed tectonic events

M. SUK (Brno, Czech Republic)

The role of Precambrian in the crust structure of central Europe

P. BANKWITZ AND E. BANKWITZ (Potsdam, Germany)

Crustal structure and development of the Saxothuringian Zone (Central Europe) from DSS data

G. ZULAUF AND W. DÖRR (Frankfurt/M., Gießen, Germany)

Cadomian tectonothermal events in the Bohemian Massif

ST. MUELLER (Zürich, Switzerland), Invited Speaker

In-situ physical properties of the earth's crust in Central Europe

E. R. SHEIKH-ZADE (Moscow, Russia)

Comparison of the West-European and Turanian Paleozoic platforms structure

S. L. KOSTIUCHENKO AND L. N. SOLODILOV (Moscow, Russia)

The accretion tectonic elements in the basement rocks of the northern part of the East European craton

Y. K. SHCHUKIN (Moscow, Russia)

Deep dynamic systems of North Eurasia

M. HEEREMANS, H. STEL, P. VAN DER BEEK AND T. PEDERSEN (Amsterdam, Netherlands; Kjeller, Norway)

Anorogenic Granites, magmatic underplating and the origin of vertical dip slip basement faults in the Fennoscandian shield

F. M. ELTER AND E. PANDELI (Siena, Florence, Italy)
Structural setting of the Palaeozoic crystalline basement of the Northern Apennines (Italy)

C. TOMEK (Brno, Tchech Republik, Salzburg, Austria)
Central European Hot Spot

G. B. FERSHTATER, F. BEA, V. N. SMIRNOV AND E. V. PUSHKAREV (Ekaterinburg, Russia; Granada, Spain)
Granodiorite compositional variations in the W-E cross section of the Urals reflecting basement tectonics and composition

Role of Basement Exhumation and Crustal Decoupling in the Evolution of Orogenic Belts

S. COSTA, P. REY, W. TODT AND ST. L. GOLDSTEIN (Mainz, Potsdam, Germany)
Consequences of post-thickening collapse on the evolution of the lower crust

J. ALCOCK AND P. MULLER (Ogontz, Oneonta, U.S.A.)
Decompression anatexis in granulite facies gneiss, northeast Adirondack Highlands, USA: Isothermal decompression before isobaric cooling

P. LEDRU (Orléans, France)
The orogenic crust of the European Variscan belt: a new light on the collision process

J. REINHARDT (Darmstadt, Germany)
Late orogenic exhumation of deeply buried rocks: Evidence for tectonic unroofing in the Saxonian Granulite Massif

O. M. ROSEN (Moscow, Russia)
Lower continental crust exhumed: Granulite grade terranes and Amphibolite grade shear zones in the Anabar Shield, Polar Siberia

V. N. PUCHKOV (Ufa Bashkortostan, Russia)
Central Uralian zone: An exhumed crystalline basement of the Laurussian continental margin

J. RÖTZLER, H. BUDZINSKI AND G. BUDZINSKI (Potsdam, Germany)
Early Variscan very high temperature (>1000°C) - high pressure metamorphism, subsequent near-isothermal uplift, and related heating of middle and upper crustal rocks in the Saxon Granulite Massif

S. N. IVANOV AND K. S. IVANOV (Ekaterinburg, Russia)
Rheological principles of the earth crust geodynamics and Russian and German super-deep drilling experiments and results

ST. MAZUR AND R. KRYZA (Wroclaw, Poland)

Thrusts and collapse in the Karkonosze-Izera Block, NE Bohemian Massif

R. HETZEL AND U. RING (Mainz, Germany)

Miocene extensional unroofing in the Menderes-Massiv, Southwestern Turkey

J. L. ALLEN (Lexington, U.S.A.)

Early Paleozoic basement uplift and subsidence on the West-Central North American craton, Colorado,

Extrapolation and Correlation of Geological Data from Basement Rocks: An Assessment

D. M. FOUNTAIN (Laramie, U.S.A.), Invited Speaker

Seismic properties of exposed lower continental crust: evidence from the lab and field

P. REY (Potsdam, Germany)

Seismic reflectors, seismic fabrics and basement tectonics

M. GRAD, A. GUTERCH, T. JANIK, R. MATERZOK, U. LUCATO, J. YLINIEMI, E. LÜCK, A. SCHULZE AND K. FÖRSTE (Warsaw, Poland; Helsinki, Finland, Potsdam, Germany)

Results of new seismic crustal refraction experiment in Permian Basin in Northwest Poland and East Germany

K. BIERBRAUER AND O. ONCKEN (Potsdam, Germany)

Structural development of deep continental crust during collision and exhumation - Implications for the seismic properties of continental crust

P. SADOWIAK, M. SIMON AND G. HIRSCHMANN (Potsdam, Hannover, Germany)

Seismic data from the crystalline basement of the KTB area (Germany) and their geological significance

M. GRAD AND U. LUOSTO (Warsaw, Poland; Helsinki, Finland)

Velocities and attenuation of seismic waves - implication for the fracturing of the uppermost basement in the Baltic Shield

J. DUYSER, A. KONTNY AND A. RAUEN (Windischeschenbach, Germany)

The influence of microcracks and ore minerals on the electrical conductivity: An example from a fault zone in KTB

S. PARKER GAY, JR. (Salt Lake City, U.S.A.)

Mapping Precambrian plate boundaries on the cratons with residual aeromagnetic maps

A. G. GREEN (Zürich, Switzerland), Invited Speaker
Integrated geological and geophysical studies of Basement Rocks: Examples from the Canadian Lithoprobe program

M. D. THOMAS AND E. I. TANCZYK (Ottawa, Ontario, Canada)
Analysis of gravity and magnetic anomalies along Lithoprobe Trans-Hudson orogen transect, Canadian Shield

M. DIACONESCU, C. DIACONESCU, R. RADULESCU, V. RAILEANU AND A. POMPILIAN (Bucharest, Romania).
Geological and geophysical structure of the Transylvanian Basement (Romania)

H. HOSNEY, P. MORGAN, M. GHALEB AND Y. ABDELHADY (Cairo Egypt, Northern Arizona, USA)
Basement Tectonics of the Northern Gulf of Suez from geothermal and gravity data

General Themes

N. PAVONI (Zürich, Switzerland)
Late Cenozoic and recent tectonic deformation in Turkey, distributed, quasi-continuous deformation versus rigid microplate motion

U. SCHALTEGGER, F. CORFU AND J.-L. SCHNEIDER (Toronto, Canada, Zürich, Switzerland, Lille, France)
Geochronological constraints for the formation of volcano-sedimentary basins during late Variscan transtension

D. A. RODIONOV (Moscow, Russia)
Multidimensional statistical method for stratigraphical sections correlation by the complex of geological and geophysical data

I. R. STAKHOVSKY (Moscow, Russia)
Multifractal analysis of fault structures in basement rocks

A. G. GUTIÉRREZ (Salamanca, Spain)
Transition from internal to external zones, hinterland to foreland mechanisms of displacement transfer at the Narcea Antiform (NW of Spain)

B. MINGRAM (Potsdam, Germany)
Lithological and geochemical composition of pressure related metamorphic units in the W-Erzgebirge, Germany

K. SCHULMANN AND P. LEDRU (Prague, Czech republic; Orléans, France)
Basement and nappes tectonics within the Bohemian Massif and French Massif Central

M. M. YOUSSEF, H. AL. IBRAHIM, A. A. BAKHEIET AND M. M. SENOSY (Cairo, Egypt)
Surface and subsurface tectonic pattern of Sohag region, middle Egypt

H. G. L. BASSI (Buenos Aires, Argentina)
Cortical Pre-Paleozoic tectonism controlling Paleozoic and Tertiary metallogeny.
Central Argentina

XU GUIZHONG AND WANG YIFEN (Beijing, China)
The characteristics and tectonic environment of Precambrian basement from
the Tongbai Dabei orogenic belt

ST. MARSHAK AND R. S. PAULSEN (Urbana, U.S.A.)
The Transamerican cratonic weak zone: A NW-trending corridor of Precambrian-
Present tectonic reactivation, USA

J. HOLBROOK (Cape Girardeau, U.S.A.)
Low-amplitude welts raised throughout the Aptian/Albian U.S. Western interior as the
dispersed deformational response of a shattered plate to regionally consistent intraplate
stress

M. P. CARLSON (Lincoln, U.S.A.)
Effects of reactivation of the North American Midcontinent Rift system on Phanerozoic
stratigraphy

M. C. GILBERT AND J. P. HOGAN (Norman, U.S.A.)
Integrated structural and igneous evolution of an ancient crustal rift

D. F. MERRIAM AND A. FÖRSTER (Lawrence, U.S.A.; Potsdam, Germany)
Precambrian basement control of "Plains-Type Folds" in the Midcontinent Region,
USA

P. BERENDSEN AND P. HOTH (Lawrence, U.S.A., Potsdam, Germany)
The relationship between Proterozoic basement structure, depositional history of
Paleozoic sedimentary rocks, and mineralization in the Midcontinent, U.S.A.

E. STEIN AND R. PATERSON (Darmstadt, Germany, Los Angeles, U.S.A.)
Kinematics of country rock deformation during emplacement of the Joshua Flat
batholith, California, U.S.A.

D. H. ROUSSELL AND H. L. Gibson (Sudbury, Canada)
The tectonic, magmatic and mineralization history of the Sudbury structure, Canada

Poster Session

Continental Scale Features of Basement Rocks of the European Craton

U. SEBASTIAN AND ST. FACHMANN (Freiberg, Germany)

Late orogenic basement reworking - Hercynian structural development of Cadomian granitoids in the Erzgebirge/Saxony

K. RÖTZLER (Potsdam, Germany)

An inverted and reduced metamorphic sequence of high pressure rocks superimposed on medium pressure ones in the Erzgebirge/Germany

H. G. KRÄUTNER (München, Germany)

Basement tectonics in the Romanian Carpathians - The Variscan crust south of the Alpine front

M. COLI (Firenze, Italy)

Remarks on a deep crustal section of the Northern Apennines

N. MINZONI AND M. MINZONI (Ferrara, Italy)

Geodynamic evolution of the Variscan cycle in the Sardinian-Corsican Massif

M. BERNABINI, N. BIANCHI, D. BUCCI, L. ORLANDO, M. PAROTTO AND M. TOZZI (Roma, Italy)

Basement involved tectonics and possible deep structure in recent mountain building: The central Italy case history

V. ZABIGAILO AND M. PAVLYUK (Lviv, Ukraine)

The peculiarities of basement structure of the Volyn-Podolian plate

V. K. GAVRISH AND A. A. KICHKA (Kiev, Ukraine)

Precambrian basement of the Dnieper-Donets Paleorift, Northeast Ukraine: Main features and evolution

G. O. GATTO, D. MASETTI AND N. MINZONI (Padova, Ferrara, Italy)

Pre-Mesozoic crystalline rocks in the Alpine chain of Val Venosta area (North Italy)

N. RUDITSA AND M. RAPOPORT (Ekaterinburg, Russia)

Pre-Riphean structural plan of the Urals orogenic belt (by geophysical data)

Z. SKÁČELOVÀ AND V. NEHYBKÁ (Brno, Czech Rep.)

Seismic activity of the Mariánské Lázně deep fault in the Western Bohemia

B. S. PANOV (Donetsk, Ukraine)

New planetary belt of deep faults in Eurasia

V. NEMEC (Praha, Czech Republic)

Regularity in the geometry of structural patterns - one of possible keys to decipher basement tectonics

M. A. BAER, G. V. KRASNOPEVTSEVA AND YU. K. SHUKIN (Moscow, Russia)

Deep conditions of formation of the European sedimentary basins

T. OBERC-DZIEDZIC, C. PIN , J. L. DUTHOU AND J. P. COUTURIE (Wroclaw, Poland; Clermont-Ferrand, France)

Petrology and Rb-Sr ages of the Strzelin granitoids, fore-Sudetic Block, SW Poland

Role of Basement Exhumation in the Evolution of Orogenic Belts

B. ALESHIN, K. ZOLOEV, V. LESTCHIKOV, B. POPOV, M. RAPOPORT, V. RYBALKA AND V. SHALAGINOV (Ekaterinburg, Russia)

The Role of the crystalline foundation of the Euroasiatic supercontinent in forming the Urals folded belt

G. CHEN (Guangzhou, P.R.C.)

Impact of basement melting on the Meso-Cenozoic tectonic development of southeast China

S. M. TILMAN AND V. D. CHEKHOVICH (Moscow, Russia)

Types of basement exhumations in orogenic belts of Northeast Russia

S. L. YUNGA AND A. F. GRACHEV (Moscow, Russia)

Joints and fractures asymmetric orientations and origin of stresses and decoupling of crustal layers at Kola Peninsula

V. I. MAKAROV (Moscow, Russia)

Neotectonic basement deformations: Types; depth of seating; mechanisms and processes

V. SOKOLOV (Sverdlovsk, Russia)

Relationships of the tectonic processes in the upper crust and the structure of the deep parts of Lithosphere

A. MARCOS AND G. GALÀN (Oviedo, Barcelona, Spain)

Structural and metamorphic evolution of high pressure basic granulites during basement exhumation: An example from the Bacariza formation, Cabo Ortegal Complex (NW Spain)

F. J. FERNÁNDEZ AND A. MARCOS (Oviedo, Spain)

Structures developed during tectonic exhumation of high grade gneiss during Variscan orogeny (Cabo Ortegal complex, NW Spain)

S. TEUFEL, L. FRANZ AND O. ONCKEN (Potsdam, Germany)

The cooling of orogenically disturbed continental crust: The Ivrea crustal segment (Northern Italy)

Extrapolation and Correlation of Geological Data from Basement Rocks: An Assessment

C. DIACONESCU, V. RAILEANU, M. DIACONESCU, F. RADULESCU, A. POMPILIAN AND M. BITER (Bucharest-Magurele, Romania)

Complex Data on the Carpathian Foredeep Basement (Romania)

N. V. FEDOROVA, F. I. NIKONOVA AND V. A. SHAPIRO (Ekaterinburg, Russia)

Regional magnetic anomaly data and other geodata of the Urals

S. KASHUBIN (Sverdlovsk, Russia)

Seismic wave anomalies and stress tectonics relationships in the Urals Crust

R. Y. STAKHOVSKAYA (Moscow, Russia)

The basement tectonics of the Caucasus Region: The model on the base of gravity data

A. RYBALKA (Sverdlovsk, Russia)

Reflectivity image of the earth's crust near the Urals SG4 deep borehole

V. GRÜNWARD (Bergen, Norway)

Faulted basement in westernmost on-shore Norway (Oygardaen) and its offshore seismic image

V. M. MORALEV AND M. Z. GLUKHOVSKY (Moscow, Russia)

Correlation of geophysical and remote sensing data from the basement of the East-European craton and prognosis of diamond-bearing Kimberlites

M. MAMDOUH KHATTAB (Alain, United Arab. Emirates)

Magmatic activity in the Pre-Permian Basement, Southern Arabian Gulf

H. HOSNEY, M. GHALEB, S. SHARAFELDIN AND Y. ABDELHADY (Cairo, Giza, Egypt)

Gravity and magnetic interpretation of basement structure of North-Western desert, Egypt

H. HOSNEY, Y. ABDELHADY AND S. HAKIM (Cairo, Egypt)

Ras Garra, the Gulf of Suez, Egypt: A seismo-magnetic examination of its subsurface

A. F. KAMEL (Cairo, Egypt)

Distribution of radioactivity in some granite outcrops in southeastern desert of Egypt

V. SOKOLOV (Sverdlovsk, Russia)

Changes of physical properties of the crust and seismic boundaries

General Themes

A. KH. ZILBERSHTEIN AND G. M. ROMM (St. Petersburg, Russia)
Tectonic action on integral optical characteristics of rocks

V. A. PRIVALOV AND E. A. PANOVA (Donetsk, Ukraine)
The nature of equidistant fault relationships

V. EZ (Moscow, Russia)
Detailed geological studies of metamorphic terrains and their bearing on the interpretation of the crust structure

S. V. SIROTINSKAJA (Moscow, Russia)
Integration of geological and geophysical data for prediction of ore-bearing areas

A. HENK (Würzburg, Germany)
Thermal modeling and late-orogenic exhumation - A case study

J. BERNHARD (Bergen, Norway)
Brittle deformation in the Oygarden Gneiss Complex, western Norway paleostress analysis

R.-K. ERIKSEN (Bergen, Norway)
Structure and tectonic evolution of basement in westernmost onshore Norway (Oygarden Gneiss Complex)

T. O. YTREDAL (Bergen, Norway)
3D fracture pattern analysis in a basement block, Oygarden Gneiss Complex, Western Norway

P. K. VERMA (Ujjain, India)
A methodology for statistical analysis and tectonic interpretation of the remote sensing lineament fabric data

Y. Z. SUN, M. Y. LIN AND Y. J. JIN (Aachen; Hebei, China)
Coriolis force plays a part in crustal movements

A. G. GUTIÉRREZ (Salamanca, Spain)
Phyllonite development in pelites and sandstones under low-grade metamorphic conditions at the Narcea-Antiform (NW Spain)

A. NAUMENKO (Kiev, Ukraine)
Geophysical and geochemical features of the Ukrainian shield's crust structure

M. A. FONSECA AND M. A. DARDENNE (Brazil, Brasilia)
Geometry and kinematics of basement strike - slip faults in the core of a curved fold and thrust belt: Example of the Northern Brasilia Belt, Central Brazil

Y. L. RONKIN AND S. G. CHERVJAKOVSKY (Ekaterinburg, Russia)

Isotopic geochemical evolution model of riftogenic series of acid magmatites of the Urals Western slope

P. GIESE AND D. ROEDER (Berlin, Gießen, Germany)

Review on the main features of crustal structure in Mediteranean orogenic belts - implications for deeply reaching thrusting processes

M. G. LEONOV, S. YU. KOLODYAZHNY AND M. L. SOMIN (Mocow, Russia)

Tectonic flow structures in basement and protoplatform cover

V. A. KOROTEEV AND A. I. RUSIN (Ekaterinburg, Russia)

Tectonics and metamorphism of the Urals belt basement

A. V. MASLOV AND L. A. KARSTEN (Ekaterinburg, Russia)

Riphean-Vendian complexes of the Urals as the upper Precambrian basement of the Uralides

Proceedings of the International Conferences on Basement Tectonics

1. R. Mason (ed.): *Basement Tectonics 7*. Proceedings of the Seventh International Conference on Basement Tectonics, held in Kingston, Ontario, Canada, August 1987. 1992 ISBN 0-7923-1582-0
2. J. Bartholomew, D.W. Hyndman, D.W. Mogk and R. Mason (eds.): *Basement Tectonics 8 – Characterization and Comparison of Ancient and Mesozoic Continental Margins*. Proceedings of the Eighth International Conference on Basement Tectonics, held in Butte, Montana, USA, August 1988. 1992 ISBN 0-7923-2088-3
3. M.J. Rickard, H.J. Harrington and P.R. Williams (eds.): *Basement Tectonics 9 – Australia and Other Regions*. Proceedings of the Ninth International Conference on Basement Tectonics, held in Canberra, Australia, July 1990. 1992 ISBN 0-7923-1559-6
4. R.W. Ojakangas, A.B. Dickas and J.C. Green (eds.): *Basement Tectonics 10*. Proceedings of the Tenth International Conference on Basement Tectonics, held in Duluth, Minnesota, U.S.A., August 1992. 1995 ISBN 0-7923-3342-9
5. O. Oncken and C. Janssen (eds.): *Basement Tectonics 11 – Europe and Other Regions*. Proceedings of the Eleventh International Conference on Basement Tectonics, held in Potsdam, Germany, July 1994. 1996 ISBN 0-7923-3797-2