

## INTERNATIONAL NEWSLETTER 5: JANUARY 1993

The purpose of the *International Newsletter* is to communicate news about activities in structural geology and tectonics from all over the world, and to provide a mouthpiece for the newly formed *International Association of Structural/Tectonic Geologists* (IASTG). As there may be many IASTG members who do not have access to the *Journal of Structural Geology*, I invite JSG readers to copy this and other newsletters to any colleagues and contacts who they think may be interested. This way, I hope that we can achieve a good world-wide circulation of news about the IASTG, and about activities in structural geology and tectonics around the world.

The *International Newsletter* is open to everyone. It provides conference organizers with a world-wide means of communicating their 'first circulars', provides regular 'slots' for national groups to report their activities (past and future), and can give reports or short notices of various kinds. However, direct advertising of services or items for sale, giving prices, etc., is not accepted.

Please send information, articles and suggestions to me at any time. Secretaries of national structural/tectonic groups are urged to send me information on a regular basis, without being reminded. Conference organizers should send their notices as early as possible, and include the abstract deadline date, to be of most use around the world. At present, the *International Newsletter* is approximately twice-yearly.

### INTERNATIONAL ASSOCIATION OF STRUCTURAL/TECTONIC GEOLOGISTS (IASTG) PROGRESS REPORT OCTOBER 1992

#### IUGS Affiliation

The Council of the International Union of Geological Sciences, at its August 1992 meetings at the International Geological Congress in Kyoto, ratified the acceptance of the International Association of Structural/Tectonic Geologists into the IUGS family.

#### IASTG Membership and Directory

Membership of the IASTG now stands at 814 (24 October 1992). Eighty-one new members have enrolled since the first IASTG Directory was produced in February. Some time in the next few months, these new member details, together with some changes of address, will be put together to form a supplement, and sent with Directory 1 to the new members. It will not be feasible to send the supplement to all those who have already received Directory 1, nor create supplements on a regular basis, because of the time and costs incurred.

A copy of the IASTG Membership Form appears at the end of this Newsletter, for those who are interested in joining the IASTG, and have not already enrolled. There is no membership fee.

#### New IASTG Committee

The IASTG began in 1990 with the help of an "Inter-

national Backing Committee" (below) which lent its support to my initial aims, as Convenor. Two years on, it seems appropriate to keep the IASTG running with a more active "Working Committee", with me remaining as current Coordinator. Many from the original Backing Committee have already expressed their willingness to act in this capacity. As the IASTG is informal, and does not meet as a body, one might question both the role of a Committee, and the manner by which it can be set up. Nevertheless, I am sure that all will appreciate the need for a support group to which I can turn for advice and co-operation, in the coming years. Individuals who are prepared to represent national or regional groups of structural/tectonic geologists, and communicate news for the *International Newsletters* on a regular basis, are invited to contact me to become part of a new-style IASTG Committee.

Susan H. Treagus *IASTG Coordinator*  
Manchester, U.K.

*IASTG Backing Committee:* P. Bankwitz (Germany), K. Birkenmajer (Poland), J.-P. Burg (France), R. Butler (U.K.), M. P. Coward (U.K.), G. A. Davis (U.S.A.), S. K. Ghosh (India), P. L. Hancock (U.K.), X. Ma (China), W. D. Means (U.S.A.), G. Mitra (U.S.A.), C. W. Passchier (The Netherlands), R. A. Price (Canada), T. Shimamoto (Japan), J. Tullis (U.S.A.), T. Uemura (Japan), E. Wallbrecher (Austria), K. Weber (Germany), P. F. Williams (Canada).

*Honorary Treasurer* E. H. Rutter (Manchester)  
*Secretarial Assistants* B. Ward and I. Stretton (Manchester)

### INTERNATIONAL MEETINGS

#### Late Orogenic Extension in Mountain Belts

4-6 March 1993; Montpellier, France

Current interest in extensional tectonics in orogens has arisen from many independent observations of extensional faults in mountain belts. This thematic meeting provides the opportunity to bring together results of studies from all over the world, and by scientists of different specialities. The meeting will be a forum for the discussion of ongoing research, reviews, observational data and modelling. The aim is to examine the geometry and mechanics of this special type of continental extension (and related phenomena such as extensional basins, and thermal and magmatic activity), and to propose models for the mechanisms, driving forces and boundary conditions of late-orogenic extensional tectonics.

Please note that the meeting is 1 day (6 March) longer than advertised in the First Circular.

Contact: Michel Séranne, Département des Sciences de la Terre—Case 058, Université de Montpellier 2, F-34095 Montpellier Cédex 05, France. Fax: 33 67 54 73 62.

### Seminar on Himalayan Geology and Geophysics. New data and new approaches

22–25 March 1993; Dehra Dun, India

To commemorate the Silver Jubilee Year of the Wadia Institute of Himalayan Geology, an International Seminar on Himalayan Geology and Geophysics will be organized by the Institute at Dehra Dun. The meeting is co-sponsored by the International Lithosphere Program.

The Seminar will focus on new data related to the Foreland Basin, Lesser Himalaya, Higher Himalaya, Tethys Himalaya, geophysics, tectonics and environmental geology. There will be three post-meeting field trips, of 1 day, 4 days or 5 days.

Contact: A. C. Nanda or A. K. Dubey, Wadia Institute of Himalayan Geology, 33 General Mahadeo Singh Road, Dehra Dun 248001, India.

### International Symposium on Fractals in Dynamic Systems in Geosciences

1–3 April 1993; Frankfurt, Germany

This conference, sponsored by JW Goethe University, will be held at Gelnhausen, situated on the slopes of the Spessart Mountains, 40 km northeast of Frankfurt. It is intended to bring together colleagues from different fields of geoscience, who are involved in various applications of fractal geometry and non-linear systems to geoscientific research. The aim of the meeting is to give an overview of the present state of knowledge. Contributions (oral or poster) are welcome from all fields of geoscience. The meeting is timed to precede the 1993 EUG in Strasbourg.

Contact: J. H. Kruhl, Geol.-Paleont. Institute, JW Goethe University, Senckenberganlage 32, D-6000 Frankfurt/Main, Germany. Fax: 0049 68 7988383.

### EUG VII

4–8 April 1993; Strasbourg, France

EUG will be the largest interdisciplinary meeting in Earth Sciences in Europe, in 1993. Seven interdisciplinary symposia will provide a broad audience with an up-to-date state-of-the-art overview of developments in the following fields: structure and evolution of the European lithosphere and upper mantle; relationships between mantle processes and geological processes at or near the surface; fluid–rock interaction in the deeper continental lithosphere; basin analysis and dynamics of sedimentary basin evolution; ocean carbon cycle and climatic change; marine sediments, burial pore water chemistry, microbiology and diagenesis; global change during the last glaciation and deglaciation.

Complementary to these symposia, there will be specialized symposia, and poster presentations.

Contact: EUG VII Congress, c/o Geological Survey of The Netherlands, P.O. Box 157, 2000 AD Haarlem, The Netherlands. Fax: 31 23 351614.

### Structures and Tectonics at Different Lithospheric Levels

6–8 September 1993; Graz, Austria

This international conference, convened by W. Unzog, E. Wallbrecher and M. Brandmayr at the University of Graz, is a successor to the 1989 Leeds "Rheology", and the 1991 Montpellier "Instabilities" meetings. Contributions are invited on structural associations related to different lithospheric levels, in which deformation processes partition in response to rheological and mechan-

ical behaviour. The following topics are welcomed: structural associations; strain partitioning; quantification of deformation processes; deformation paths; modelling of lithospheric processes; influence of fluid activity; rheology; microfabrics.

Three field excursions will be offered: to the Eastern Alps (2–5 September or 9–12 September), and to the Bohemian Massif (9–12 September). A special issue of papers arising from this conference is planned for publication in the *Journal of Structural Geology*, in late 1994; submission deadline 8 September 1993.

Abstract deadline: 30 April 1993.

Contact: Wolfgang Unzog, Department of Geology, University of Graz, Heinrichstrasse 26, A-8010 Graz, Austria. Fax: 43 316 38 28 85.

### GET: GROUP D'ETUDES TECTONIQUE, FRANCE

The GET is an informal group which meets, usually each year, at different university locations in France. The aims are to present and discuss research in an informal environment, and to offer field trips.

The most recent GET meeting was 21–25 September 1992, at Montpellier, run by J. van den Driessche, J.-P. Brun and J.-P. Burg, entitled *L'Effondrement Gravitaire de la Chain Varisque* (Deep Gravity of the Variscan Belt).

### TSK: GERMAN-SPEAKING COUNTRIES

The TSK is a study group for tectonics, structural and crystalline geology, in the German-speaking countries of Europe. It meets every 2 years, to provide opportunities for structural geologists to present and discuss their research.

### Forthcoming meeting

TSK Meeting: 7–9 April 1994; Gottingen, Germany

Contact: K. Weber, Institute of Geology and Dynamics of the Lithosphere, University of Gottingen, Goldschmidstrasse. 3, D-3400 Gottingen, Germany. Fax: 0551 39 97 00.

### TECTONIC STUDIES GROUP, U.K.

The TSG is an informal study group affiliated to the Geological Society of London. It has an Annual General Meeting every December, and also supports thematic meetings of one day or more, according to interest and demand. The 1992 AGM is being held at Southampton University (14–16 December), organized by D. J. Sanderson.

### Forthcoming meetings

#### *Deformation and Fluid Flow*

This TSG meeting, convened by Rob Knipe (Leeds) and formerly advertised to take place at the Geological Society, London, during May 1993, will now be incorporated into *Geofluids-93* (see below).

#### *Geofluids-93: 4–7 May 1993; Torquay, Devon*

This international conference on fluid evolution, migration and interaction in rocks is co-sponsored by the Geological Society and IMM.

Contact: Chris Cornford, IGI Ltd, Hallsannery, Bideford, Devon EX39 5HE, U.K. Fax: 0237 421700.

A special session will be devoted to *Deformation and Fluid Flow*. For information, contact Rob Knipe, Department of Earth Sciences, Leeds University, Leeds LS2 9JT, U.K. Fax: 0532 335259.

#### *Fractography: 13 September 1993; London*

This meeting, sponsored jointly by TSG and the Petroleum Group, is aimed at presenting and discussing "Fractography" (the morphology of fracture surfaces), as an emerging specialized discipline within the broad field of fracture studies. The meeting will consider all aspects of fractography in geology, with a view to its uses to determine the type of fracture, propagation direction and rate, relative age, orientation of causative stresses, and tectonic implications. The four provisional themes are fractography in field studies, in core studies, in experimentally induced fractures and quantitative aspects of fractography.

Abstract deadline: 28 February 1993.

Contact: M. S. Ameen, GeoScience Limited, Silwood Park, Ascot SL5 7QW, U.K. Fax: 0344 872438.

For general information on TSG, consult *Geoscientist* (formerly *Geol. Soc. [Lond.] Newsletter*), or contact Dave Prior, TSG Secretary, Department of Earth Sciences, University of Liverpool, P.O. Box 147, Liverpool L69 3BX, U.K. Fax: 051 708 6502.

### **STRUCTURAL GEOLOGY AND TECTONICS DIVISION, GEOLOGICAL SOCIETY OF AMERICA**

The 1992 GSA Annual Meeting, where the Division holds its business meeting and awards ceremony, is currently being held at Cincinnati (26–29 October). A report on this will appear in the next *International Newsletter*.

#### **Next GSA Annual Meeting**

25–28 October 1993; Boston, Massachusetts

Information for the SG&T Division Newsletter should be sent to Greg Davis/Scott Paterson (Editors), Department of Geological Sciences, University of Southern California, Los Angeles, CA 90989-0740, U.S.A. Fax: 213 740 8801.

Further information on all GSA Meetings: The Meetings Department, GSA, P.O. Box 9140, Boulder, CO 80301, U.S.A.

### **STRUCTURE AND TECTONICS GROUPS, CANADA**

#### **GAC/MAC Meeting**

17–19 May 1993; Edmonton

The Geological Association of Canada will meet jointly with the Mineralogical Association of Canada, at Edmonton. The SG&T Division of GAC plans to sponsor the following sessions: *Rock Deformation: Mechanisms and Models*, convened by F. Fueten, A. R. Cruden and P.-Y. Robin; and *Glacial Deformation*, convened by M. Fenton

and W. Langenberg. The Division will also sponsor a short course, *Applications of Microcomputers in Structural Geology*, by H. Charlesworth.

There will be a special session at Edmonton, on *Devonian Tectonics and Related Magmatism in the Cordillera*, organized by L. Lane. Field trips are also planned.

#### **CTG**

The 1992 Annual Meeting of the Canadian Tectonics Group is currently being held at Nordegg (23–25 October).

For further information on Canadian activities, consult *The Main Thrust*, Newsletter of the SG&T Division of GAC, or contact Philippe Erdmer, Division Secretary, Department of Geology, University of Alberta, Edmonton, AB, Canada T6G 2E3. Fax: 403 492 2030.

### **SPECIALIST GROUP IN TECTONICS AND STRUCTURAL GEOLOGY, AUSTRALIA**

#### **SGTSG meeting, 1984**

*Deformation Processes in the Earth: From Microcracks to Mountain Belts: 6–11 February 1994; Jindabyne, SE Australia*

This next field conference will meet at Jindabyne, a small mountain township 2 hours drive south of Canberra, at the foothills of the Australian Alps and Kosciusko National Park. It will focus on deformation processes at all scales. There will be 4 days of conference presentations, with a mid-conference excursion to Mt Kosciusko and 'the top of Australia'. Four pre- and post-conference field trips are also planned.

Second Circular and Contact: Mark Rattenbury, c/o Australian Geological Survey Organization, P.O. Box 378, ACT 2601, Australia. Fax: 61 6 249 9938.

### **REMOTE SENSING**

#### **Ninth Thematic Conference, Geological Remote Sensing. Exploration, Environment and Engineering**

8–11 February 1993; Pasadena, California, U.S.A.

Programme: Environmental Research Institute of Michigan, P.O. Box 134001, Ann Arbor, MI 48113-40001, U.S.A. Fax: 313 994 5123.

#### **Operationalization of Remote Sensing**

19–23 April 1993; Enschede, The Netherlands

This international symposium is jointly organized by the ITC with the support of EARSeL, the Dutch Remote Sensing Board (BCRS) and the Remote Sensing Society (U.K.). It will be the first meeting to be devoted to the topic of operationalizing remote sensing, since the removal of internal borders of the European Community. Individuals from government organizations, remote sensing agencies, research institutes and companies are invited to contribute. Some keynote addresses have been invited on a variety of topics.

Contact: J. L. van Genderen, ITC, P.O. Box 6, 7500 AA Enschede, The Netherlands. Fax: 31 53 874 536.

## REPORT: FIELD MEETING IN THE KOLA PENINSULA

An International Field Meeting on *Ductile Shear Zones in Highly Metamorphosed Rocks* was held at Apatity, in the Kola Peninsula of Russia, from 15 to 26 June 1992. It was organized by members of the Geological Institute at Apatity, under the auspices of IGCP Project 275 "Deep Geology of the Baltic Shield". The meeting brought together structural geologists to exchange experiences of field investigation of mesoscopic structures and fabrics, in rocks which had flowed at high metamorphic grade. The programme consisted of 7 days of field excursion, 2 days of individual field study and 1 day of presentations: posters and computer programs. Practically all of the discussions took place directly on beautiful exposures.

The Kola Peninsula is in the eastern part of the Baltic Shield, and consists of Archaean and Proterozoic rocks with complicated tectonic histories. Two key areas were chosen for study, which had already been mapped in detail by geologists from Russia and elsewhere. Here, the supracrustal and plutonic rocks have undergone high strain and amphibolite facies metamorphism, and exhibit strain gradients, and structures typical of ductile shear zones. These field exposures stimulated many long discussions.

An opportunity arose to extend the programme to include excursions to the Belomorian polymetamorphic complex of the Early Archaean, the Kandalakshskaya unit of the Lapland granulite belt, and banded iron formations. This involved crossing the Kola Peninsula from north to south, a round trip of 2000 km.

This field meeting demonstrated that structural geology provides a common language, which easily transcended the five or so mother tongues of the participants. The Geological Institute hopes to hold similar meetings, in the future. We would like to thank Susan Treagus for help with advertising the field meeting [*International Newsletter 1; Journal of Structural Geology 1991*], the participants who made it possible, and Christopher Talbot for help with writing the reports.

V. B. Alekseev and F. P. Mitranov  
Geological Institute,  
Ferman Strasse 14,  
184 200 Apatity, Russia.

### Postscript

I am sure that I write for all the non-Russian participants when I congratulate 'Slava Alekseev and his colleagues for their wonderful hospitality. To hold such a large proportion of an international meeting while sitting on superb exposures of the subject matter was new to me. It was dramatically rewarding to have sufficient time to discuss fundamental problems. We will all treasure happy memories of roaring fires built within minutes of the decision to have lunch by this lake, or on that hilltop; particularly welcome when sleat was blowing horizontally, on midsummer day!

C. J. Talbot  
Uppsala, Sweden

## SHORT NOTICES

### Structural Geology in Russia

Meetings on *Experimental Tectonics in the Decision of Problems of Theoretical and Practical Geology* take place, every 5 years. The most recent meeting, *Mechanisms of Structural Formation and Seismicity*, was held from 30 January to 1 February 1991, in Moscow. The programme included 145 reports from colleagues from the former U.S.S.R. For further information, contact Y. L. Rebetskiy, Institute of Physics of the Earth, Russian Academy of Science, Laboratory 908, 123810 Moscow, Bolshaya Gruzinskaya, 10 Russia.

The following projects are currently being carried out. *Terranes of NE Russia*; contact S. D. Sokolov, Geological Institute of Russian Academy of Science, 109017, Moscow, Pyzhevsky Per. 7, Russia.

*Mechanisms of Formation of Linear Fold Structures in Thin-layered Sedimentary Units*, initiated by the late Professor Belousov; contact F. L. Yakolev (address as Y. L. Rebetskiy, above).

*Strain Analysis of Rocks With Different Viscosity*; contact A. K. Khudoley, All-Russian Geological Research Institute (VSEGEI), 199026, St. Petersburg, Sredny Pr. 74, Russia.

*Three-dimensional Modelling of Multiply Folded Structures*; contact L. M. Plotnikov (address as A. K. Khudoley, above).

### Tectonics and Structural Geology Studies Group of Norway

For information on activities, contact A. G. Koestler (Chairman), Geo-Recon A. S., Bernhard Herresvei 3, N-0376, Oslo, Norway.

### Tectonic Division of Geological Society of South Africa (T'DOGS)

For information on activities, contact S. McCourt, Chairman T'DOGS, Department of Geology, University of Pretoria, 0083 Hillcrest, Pretoria, South Africa. Fax: 12 433430.

### Structural Geology Group, Slovak Geological Society

This group organizes annual meetings and excursions, and aims to coordinate structural and tectonic research in the Western Carpathians and in Slovakia, and welcomes international communication and cooperation. Contact O. Samuel or D. Plasienska, 817 04 Bratislava, Mlynska Dolina 1, Czechoslovakia.

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Thanks to all who have contributed information to this Newsletter.

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