



INTERNATIONAL NEWSLETTER 7: JANUARY–FEBRUARY 1994

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 mouth-piece for the *International Association of Structural/Tectonic Geologists* (IASTG), as reported below. Readers of the *Journal of Structural Geology* are encouraged to copy this newsletter to interested colleagues, so that we can achieve a good world-wide circulation of news about the IASTG, and about international activities in structural geology and tectonics.

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.

Information, articles and suggestions can be submitted at any time, and secretaries of national structural/tectonic groups are urged to send information on a regular basis. 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)

The IASTG—a resumé

The informal International Association of Structural/Tectonic Geologists was launched in November 1990 from an article in the *Journal of Structural Geology* (Vol. 12, No. 8) by S. H. Treagus, and with the support of an international backing committee. Its purpose is to encourage international communication among structural and tectonic geologists. Membership is open, without subscription.

Communication among IASTG members is achieved in two ways. (1) The *International Newsletter* published in the *Journal of Structural Geology*, approximately twice-yearly, brings together progress reports on the IASTG, news of meetings around the world, and short submitted items, as the following pages demonstrate. (2) A *Membership Directory* in booklet form is provided for members, giving names, phone/fax/addresses, and research interests of all members. This puts individuals in touch with others in the same research field, or region.

The IASTG was affiliated to the International Union of Geological Sciences (IUGS) in August 1992. An international working committee was established during 1993 (named below). The IASTG works in collaboration with national structural/tectonic groups in the U.K., Japan, Australia, Canada, U.S.A. and South Africa, and has recently helped groups become established in Argentina and India (see later article).

Those interested in joining the IASTG should complete a membership form, either copied from *International Newsletter* 5 (*JSG* Vol. 15, No. 1, 1993) or from the IASTG Coordinator. With enrolment, new members receive an

offer to subscribe to the *Journal of Structural Geology* at a personal member rate.

Running costs of the IASTG have, to date, been covered by sponsorship and donations from companies, regional structural/tectonic groups and many individuals. Continued contributions are welcome. The "IASTG Fund" is administered jointly by S. H. Treagus and E. H. Rutter, at Manchester, U.K.

Why join?

What is the value of the IASTG, and is it worth joining? It is for members to answer this, but a surprising number of letters suggest that the IASTG can offer a lifeline to people working in isolation, and can encourage groups of structural/tectonic geologists to get together (perhaps to form a study group; see later). The IASTG is rare, if not unique, in offering membership of a group, without fees. For some members, this has been their first opportunity to become free and welcome members of a world-wide network.

At the IASTG's beginning, a few geoscientists expressed the opinion that such a specialist group would fragment geological science and discourage interdisciplinary research, so did not favour its creation. The evidence from the IASTG points to the contrary: the Directory and this Newsletter witness to the number of individual members and number of meetings which are broad-based and interdisciplinary. The *International Newsletter* appears to be particularly appreciated by organizers of conferences wishing to publicize their meeting, world-wide. At least one meeting has grown out of a preliminary article in the Newsletter.

Report for 1993

The main achievements for 1993 have been to continue building up the membership database, to establish a committed international committee (as below), and to produce a Supplement to Directory 1.

The membership continues to grow, and currently (15 November 1993) stands at 934, distributed as follows: Europe, 415; U.S.A. and Canada, 229; South America, 40; Asia, 147; Australasia, 60; Africa and the Middle East, 43.

The IASTG Directory Supplement was produced in August 1993, and circulated to all members, free of charge. Produced in the same style as Directory 1, it contains some alterations to Edition 1 (e.g. changes of address), and gives details for the 183 members who enrolled after February 1992. (These members received a copy of Directory 1 as well as the Supplement.) The booklets were all mailed by Pergamon Press with promotional literature, which included a 1994 offer to subscribe to *JSG* at a special member rate.

Future plans

The IASTG membership is likely to continue growing, as more individuals become aware of it and its value. There is a steady amount of work enrolling new members and making alterations as people change address.

It is the plan to write to all IASTG members, during 1994, with a print-out of their current Directory details. All who wish to remain in the IASTG, its membership list, and the Directory, will be requested to affirm and return these details, amended as appropriate. Although this will generate considerable work, it seems to be the best way to keep IASTG records up-to-date. Without such periodic checks, the IASTG would accumulate a progressive number of members who had changed address or left the profession.

The responses to this mailing will be used for compiling Directory 2, planned for 1994/5. The success of this operation will depend on swift responses of members, and the financial resources to help with secretarial work and cover costs of mailing and Directory printing. To this end, members will be invited to include a donation (a voluntary subscription) when they confirm their membership details.

The IASTG will continue to report its progress in forthcoming *International Newsletters*.

IASTG Coordinator Susan H. Treagus, Department of Geology, Manchester University, Manchester M13 9PL, U.K.

IASTG Committee: P. Bankwitz (Germany), K. Birkenmajer (Poland), J.-P. Burg (Switzerland), R. Butler (U.K.), S. Cloetingh (The Netherlands), S. F. Cox (Australia), G. A. Davis (U.S.A.), S. K. Ghosh (India), P. L. Hancock (U.K.), V. Kale (India), A. K. Khudoley (Russia), X. Ma (China), S. McCourt (South Africa), W. D. Means (U.S.A.), M. O. Nwadiibia (Nigeria), D. Plasienska (Slovakia), R. A. Price (Canada), J. Selles-Martinez (Argentina), 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)

NEW STRUCTURE/TECTONIC GROUPS FOR 1993: ARGENTINA AND INDIA

The IASTG has encouraged the setting up of two structure/tectonic studies groups in different parts of the world. Both groups came into being during 1993, from original ideas of IASTG members to form regional branches of the IASTG. Regional branches did not, on full examination, seem the best way to go, as ultimate responsibility and management would appear (on paper) to fall to the IASTG Coordinator in Manchester. Instead, informal national/regional groups have been initiated along the lines of some existing study groups, and the IASTG office has provided advice and information. Congratulations and best wishes to these new groups!

Grupo Estructuralista Argentio (GEA)

IASTG member J. Selles-Martinez (Buenos Aires) reports that for many years, structural geologists in Argentina have talked of establishing a study group. In 1992 he consulted the IASTG about forming an Argentinian branch, but instead was encouraged towards the creation of an independent national group. This group plans to become established during the XII Congreso Geológico Argentino, at Mendoza, 10–15 October 1993.

Geologists from Buenos Aires, La Plata, Bahia Blanca and San Luis had expressed interest in joining the GEA, and the group is sponsoring an after-congress field trip,

led by V. Ramos, from Mendoza to Santiago de Chile, through the Main Andes.

An international symposium on *Curved Orogenic Belts*, to take place in Buenos Aires, is currently being planned. Keynote and volunteered contributions on the following topics are invited: curved belts through time and space; geometry and kinematics; mechanics of bending; the paleomagnetic tool; modelling of curved belts. Round tables and workshops will be incorporated into the symposium, and a 2- or 3-day field trip in the Sierras Australes of Buenos is planned.

Contact: J. Selles-Martinez, Dpto de Geologia, Universidad de Buenos Aires, 1428 Buenos Aires, Argentina. Fax: 54 1 781 1253.

Indian Tectonic Studies Group (ITSG)

Members of the IASTG Committee, S. K. Ghosh and V. Kale, have been working towards the creation of a Tectonic Studies Group in India. The recent seminar on *Progressive and Superposed Deformations* organized by S. K. Ghosh at Jadavpur University (5–6 October 1993) was a rare opportunity for structural geologists from all over India to meet. This provided the opportunity to propose the setting up of an Indian Tectonic Studies Group (ITSG), which was unanimously approved.

A resolution was agreed and co-signed by 27 initial members. For the time being, the group will be informal, with no subscription and financial commitments. A committee was formed of the following: Chairman, S. K. Ghosh (Jadavpur); Secretaries, K. Naha (Kharagpur) and D. Mukhopadhyay (Calcutta); C. V. Thakur (Wadia Institute), A. B. Roy (M. L. Sukhadia) and A. K. Jain (Roorkee).

A list of IASTG members in India has been provided for the ITSG, to aid communication on this important event.

INTERNATIONAL MEETINGS

Modern Developments in Section Validation Techniques

21–22 February 1994; London, U.K.

This international conference sponsored by the Petroleum Group and CogniSeis Development aims to provide a forum for the integration of techniques available for validating structural interpretations, and to highlight recent advances. Over the past decade, increased availability of specialist computer applications has led to significant advances in analytical techniques and tools employed in cross-section construction.

Information: P. Buchanan, CogniSeis Dev. Inc., Stanley House, Kelvin Way, Crawley RH10 2SX, U.K. Fax: 0293 515344.

EMPG-V: Experimental Mineralogy, Petrology and Geochemistry

13–15 April 1994, London, U.K.

The biennial series of EMPG meetings is held under the aegis of the European Mineralogical Union. This fifth symposium, sponsored by the EMU, the Mineralogical Society of Britain and Deutsche Mineralogische Gesellschaft, will be held at University College, London.

The meeting will be opened by a plenary lecture, and followed by six symposia: metamorphic petrology; melts; high-P mineralogy and petrology; mineral–rock deformation; mineral–fluid interaction; diffusion and kinetics.

The abstracts of accepted contributions will appear in *Terra Abstracts*, and papers from the meeting will be

published in a special issue of the *European Journal of Mineralogy*; manuscript deadline April 1994.

Contact: EMPG-V, Department of Geological Sciences, University College London, Gower Street, London WC1E 6BT, U.K.

XIX General Assembly, European Geophysical Society

25–29 April 1994; *Grenoble, France*

Six interdisciplinary symposia on physical properties of geomaterials are sponsored by the Solid Earth Geophysics section of the European Geophysical Society, at its General Assembly at Grenoble, as follows: the effects of fluids on rock physical properties; anisotropic properties of minerals and rocks at pressure and temperature; modelling of rock physical properties; dynamics and structure of the Earth's mantle and core; physical processes within fault zones: models and observations; deformation of Earth materials at high temperature and pressure.

Information: EGS Office, Postfach 49, Max Planck-Strasse 1, 37189 Katlenburg-Lindau, Germany. Fax: 49 5556 4709.

Tenth Thematic Conference, Geological Remote Sensing

9–12 May 1994; *San Antonio, Texas, U.S.A.*

This international conference primarily focuses on geologic remote sensing and geographic information systems (GIS), with special emphasis on hydrocarbon exploration and environmental and engineering applications. There will be more than 300 presentations, with plenary and interactive poster sessions designed to benefit both small operators and large corporate users of remote sensing.

Contact: ERIM/Thematic Conferences, P.O. Box 134001, Ann Arbor, MI 48113-4001, U.S.A. Fax: 313 994 5123.

First North American Rock Mechanics Symposium, NARMS

1–3 June 1994; *Austin, Texas, U.S.A.*

This symposium is a regional meeting of the International Society for Rock Mechanics, and is sponsored jointly by the U.S. National Committee on Rock Mechanics, the Canadian Rock Mechanics Association, and the Sociedad Mexicana de Mecanica de Rocas. It will provide a forum for concentrated dialogue between researchers and practitioners in civil, mining and petroleum industries. Pre- and post-symposium short courses and field trips to the Superconducting Super Collider (SSC) project are planned.

Call for abstracts circular: contact P. Nelson or S. Laubach, NARM, Continuing Engineering Studies, University of Texas, Austin, TX 78712, U.S.A. Fax: 512 471 0140.

Weddell Sea Tectonics and Gondwana Breakup

6–7 June 1994; *Cambridge, U.K.*

This meeting is hosted by the British Antarctic Survey (BAS) at Cambridge, and convened by E. King, R. Livermore and B. Storey. It will be held in the historic surroundings of Madingley Hall, a Tudor hunting lodge near Cambridge. The meeting aims to bring together those working on tectonic problems related to the breakup of Gondwana in the Antarctic Weddell Sea sector, and provide opportunities for special interest groups to meet and discuss progress. Apparently conflicting evidence concerning plate kinematics will be reviewed and hopefully

reconciled. A publication is planned arising from this meeting.

Abstract deadline: March 1994

Contact: B. Storey, BAS, High Cross, Madingley Road, Cambridge CB3 0JS, U.K. Fax: 0223 62616.

First European Congress on Regional Geological Cartography

13–16 June 1994; *Bologna, Italy*

The need for detailed and well-organized knowledge of geological and environmental scientific information is becoming more and more relevant in society, at the town, country and regional scale. The successful collaboration of the Bayern, Catalunya and Emilia-Romagna Regional Surveys has led to the suggestion that other European regions could benefit greatly from exchanges of ideas on geological and thematic mapping programmes, and on the creation of information to deal with environmental exploitation and protection.

This first meeting in Bologna, Italy, will allow different regions to compare their experiences and methods, and will evaluate the possibility of making information available to different European regions.

Information: 1st E.C.R.G.C., Servizio Cartografico, Regione Emilia Romagna, Viale Silvani 4/3, 40122 Bologna, Italy. Fax: 0039 51 554076.

11th International Conference on Basement Tectonics

25–29 July 1994; *Potsdam, Germany*

This conference sponsored by GeoForschungsZentrum Potsdam and the International Basement Tectonics Association Inc., Salt Lake City, is concerned with all aspects of the tectonics of the continental crust acting as a craton. The following conference themes are proposed: continental-scale features of basement rocks of Phanerozoic cratons, with emphasis on Europe; extrapolation and correlation of geological and geophysical data from basement rocks, an assessment; mechanism and processes of tectonic decoupling of crustal layers; role of basement exhumation in the evolution of orogenic belts. Field trips are proposed to the Saxonian granulite massif and its Palaeozoic rim, the Hartz Mountains (Variscides), the Erzgebirge belt of the Bohemian massif, and the Elbe region.

Final circular and Contact: O. Oncken, GeoForschungs-Zentrum, Telegrafenberg, D-O-1561 Potsdam, Germany. Fax: 049 331 310601.

CMMI XV Congress, South Africa

Note change of date from April to September

4–8 September 1994; *Sun City, South Africa*

South Africa's first general election for all its people has recently been set for 27 April 1994, at the time originally scheduled for the 15th Congress. The Organizing Committee have therefore decided to postpone the Congress until September 1994, to take place after this important event: the long-awaited advent of true democracy.

The 15th Congress of the Council of Mining and Metallurgical Institutions is organized by the South African Institute of Mining and Metallurgy and the Geological Society of South Africa. It will begin in the Super Bowl at Sun City, and will then divide into parallel sessions of four technical programmes: mining, extractive metallurgy, metals technology and geology. A full programme of excursions is planned.

Contact: P.O. Box 808, Johannesburg 2000, South Africa. Fax: 27 11 838 4255.

Salt Tectonics

14–15 September 1994; London, U.K.

This joint meeting of the Petroleum Group and Tectonic Studies Group of the Geological Society of London is convened by I. Alsop, D. Blundell and I. Davison, Royal Holloway, University of London. It will be held at the Geological Society, Burlington House, London.

Salt tectonics dominates many of the largest petroliferous sedimentary basins in the world. As well as its economic importance, salt produces some spectacular deformation features. The meeting will bring together academic and industry geoscientists from many countries, and will include internationally known keynote speakers. Contributions are encouraged on all aspects of salt tectonics, including deformation mechanisms, large-scale tectonics, and nuclear waste storage; contributions on shale tectonics are also welcome.

Preliminary abstract deadline: 1 April 1994

Contact: I. Alsop, Department of Geology, Royal Holloway, University of London, Egham, Surrey, U.K. Fax: 0784 471780.

Tectonic Evolution of SE Asia

7–8 December 1994; London, U.K.

This meeting, co-sponsored by the University of London SE Asia Research Group, the Marine Studies Group and the Tectonic Studies Group, will be convened by Derek Blundell (Royal Holloway) and Robert Hall (University College), at the Geological Society, Burlington House, London. The 2-day meeting will review the present and past tectonics of SE Asia, and will provide an opportunity to consider how recent data collected in the region test tectonic models. It will form a U.K. contribution to IGCP Project 321 on *Gondwana Dispersion*, and 306 on *Stratigraphic Correlation in SE Asia*.

Papers presented at the meeting are expected to be published in a Geological Society Special Publication, in 1995. Manuscripts must be completed before the meeting.

Further Information: D. Cameron, Department of Geology, RH&BNC, Egham, Surrey TW20 OEX, U.K. Fax: 0784 471780.

TSG, NEW ZEALAND

This Tectonic Studies Group of the Geological Society of New Zealand is a study group promoting communication between structural and tectonic geologists who are conducting research in New Zealand. Information is exchanged in a biannual newsletter, and meetings are yearly at conferences of the Geological Society of New Zealand, most recently (6–10 December 1993) at Wellington. TSG NZ periodically sponsors workshops on special topics.

Information: T. Little (newsletter editor), Geology Department, Victoria University of Wellington, P.O. Box 600, New Zealand. Fax: 64 4 495 5186.

SGTSG, AUSTRALIA

Deformation Processes in the Earth: From Microcracks to Mountain belts

6–11 February 1994; Jindabyne, SE Australia

The 1994 meeting of the Australian Specialist Group in

Tectonics and Structural Geology, at Jindabyne in alpine New South Wales, comprises four days of oral and poster presentations, with special thematic sessions and general sessions. The themes will include: crust–mantle dynamics; core complexes; granite emplacement processes; metamorphism, fluids and deformation; applications of geochronology to structural problems; and a workshop on shear criteria.

Two field trips are planned; to examine ideas on the structural/metamorphic evolution of the Cooma metamorphics, and the thrusts and associated structures in the Ordovician–Silurian sedimentary sequence; and to traverse the Lachlan Fold Belt to examine the interaction of the Gilmore and Mooney Mooney fault zones with Cambro-Ordovician basement, the Ordovician metamorphism, and the Siluro-Devonian sedimentary basin development.

Contact: Mark Rattenbury, SGTSG Jindabyne Conference, Australian Geological Survey Organization, P.O. Box 378, ACT 2601, Australia. Fax: 61 6 249 9938.

ITALY

Societa Geologica Italiana

23 September–1 October 1994; Bari, Italy

The central theme of this meeting is *Geology of Foreland Areas*. Other themes include geology and tectonics of sedimentary and carbonate platforms, crustal processes and palaeogeography during orogenesis, and geodynamics.

Information: via IASTG member U. Fracassi, via Sasso 36, I-61029 Urbino (PS), Italy.

GERMAN-SPEAKING COUNTRIES

The TSK

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 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.

German Geological Society: Basin Formation and Inversion in Europe

3–6 October 1994; Heidelberg

This meeting, the 146th of the German Geological Society (DGG), is organized by the Geologisches-Palaontologisches Institut of Ruprecht-Karls-University of Heidelberg. Basin formation and inversion are of interest to a wide number of geoscientists, and stimulate interdisciplinary studies. The main topics of the meeting are: reviews and examples of basins in relation to tectonics and palaeogeography; processes of basin formation and inversion; methods of studying basins. The meeting will be complemented by excursions, short courses and workshops. The meeting languages are English and German.

Contact: DGG '94, Geologisches-Palaontologisches Institut, Universitat Heidelberg, Im Neuenheimer Feld 234, 69120 Heidelberg, Germany. Fax: 49(0)6221 565503.

TSG, BRITAIN

The Tectonic Studies Group of Britain is an informal study group affiliated to the Geological Society of London. Its Annual General Meeting, held in December, is open to all interested participants, and particularly encourages contributions from research students. The AGM is at a different university location each year. TSG also supports thematic meetings, and combined meetings with other specialist groups (see International Meetings).

For general information on TSG, consult *Geoscientist (Geol. Soc. [Lond.] Newsletter)*, or contact S. H. Treagus, TSG Chairman, Department of Geology, Manchester University, Manchester M13 9PL, U.K. Fax: 061 275 3947.

Forthcoming meetings

Planetary Tectonics: 18 May 1994; Burlington House, London

This is a combined meeting with the Geological Remote Sensing Group and the Joint Association for Geophysics, to be held at the Geological Society, London. Contributions are encouraged on any aspect of planetary tectonics.

Contact for TSG participants: S. H. Treagus, as above.

Fault Populations

Autumn 1994; Edinburgh, Scotland

The meeting is promoted by interest in fault populations, and questions such as the relationship of populations of faults at different scales. The 2-day meeting is planned for October or November (date to be fixed, shortly), to be held at Edinburgh University, and co-convended by P. Cowie, I. Main and R. Knipe (Leeds).

Further details: P. Cowie, Department of Geology and Geophysics, Edinburgh University, Edinburgh EH9 3JZ. Fax: 031 668 3184.

TSG Annual Meeting: 19–21 December 1994; Leeds

This meeting at the University of Leeds, will be convened by R. Butler and G. Lloyd.

Further details: R. Butler, Department of Earth Sciences, Leeds University, Leeds LS2 9JT.

STRUCTURAL GEOLOGY AND TECTONICS DIVISION, GEOLOGICAL ASSOCIATION OF CANADA

For information on Canadian activities, consult *The Main Thrust*, Newsletter of the SG&T Division of GAC, or contact Keith Benn, Division Secretary, Department of Geology, University of Ottawa, 161 Louis Pasteur, Ottawa, Ontario, Canada K1N 6N5. Fax: 613 564 9916.

Forthcoming meeting

GAC/MAC Annual Meeting 17–18 May 1994; Waterloo

The combined meeting of the Geological Association of Canada and the Mineralogical Association of Canada will hold its 1994 meeting at the University of Waterloo, Ontario. The SG&T Division of GAC will sponsor a special session on *Applied Structural Geology*, convenor W. M. Schwerdtner, Department of Geology, University of Toronto, Canada M5S 1A1. Fax: 416 978 3938.

Contact: A. V. Morgan, Department of Earth Sciences, University of Waterloo, Ontario, Canada N2L 3G1.

STRUCTURAL GEOLOGY AND TECTONICS DIVISION, GEOLOGICAL SOCIETY OF AMERICA

For full news on the SG&T Division, consult *Structural Geology and Tectonics Division Newsletter*: editors Greg Davis and Scott Paterson, Department of Geological Sciences, University of Southern California, Los Angeles, CA 90989-0740, U.S.A. Fax: 213 740 8801.

GSA Annual Meeting, 1993

The recent Annual Meeting at Boston had a central focus on Geology and Health. The Division-sponsored symposium *Inferring Paleoearthquakes From Fault-rock Fabrics: Experimental and Field Evidence*, was convened by F. M. Chester and R. L. Bruhn. In addition to the usual discipline sessions was a theme session *Pluton Interiors: Structure and Dynamics*. The SG&T Division sponsored a Short Course, *Fracture Mechanics of Rock*, run by T. Engelder, M. R. Gross and M. P. Fischer.

GSA Annual Meeting, 1994

24–27 October 1994; Seattle, Washington

Geology At the Leading Edge will be the scientific theme of the 1994 meeting at Seattle. Theme sessions and symposia are sought in all aspects of Pacific rim and convergent margin geology, with particular emphasis on the utilization of new technology. The GSA-sponsored symposium *The Birth and Death of a Plate* will include invited talks on volcanism, kinematics and plate motion, accretionary wedges and evolution of ocean-ridge spreading centers. Speakers will illuminate these issues with results from remote sensing, geodesy, seismic imaging, experimental studies of geologic materials, and computational advances in modeling geologic systems.

Informal evening sessions are planned to bring attendees up to date on GIS, GPS, and major nationally funded research projects such as the RIDGE initiative and the Continental Drilling Program.

The SG&T Division will sponsor a symposium, theme sessions and a short course. One theme session proposed for Seattle is *Teaching Structural Geology*. The aim would be to bring together and share ideas on teaching methods and materials. (To be confirmed, next Newsletter.)

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

SHORT NOTICES

TSGS, Norway

The Tectonics and Structural Geology Studies Group of the Norwegian Geological Society was initiated in 1983, to stimulate interest and development in the fields of structural geology and tectonics, within academic institutions and industry. TSGS arranges annual meetings, focusing on topics of interest to both university and industry geologists, with onshore as well as offshore applications.

For information on TSGS activities, contact A. G. Koestler (Chairman), Geo-Recon A.S., Bernhard Herresvei 3, N-0376, Oslo, Norway. Fax: 22 83 85 29.

Structural Geology Group, Slovak Geological Society

This group organizes annual meetings and excursions, and aims to co-ordinate structural and tectonic research in the Western Carpathians and in Slovakia. International communication and co-operation are welcomed. Contact O. Samuel or D. Plasienska, 817 04 Bratislava, Mlynska Dolina 1, Czechoslovakia.

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.

New Mac Software

Earth'nWare Inc. offer a full range of Macintosh software for the earth science community. The following new products are available: $R/\phi/\tau$ -Fry Bundle; CarDec; Strain Grid; Fry Analysis; Structure Lab. Other products available are: Flinn Plot; Contour File Maker; Short Course Notes; Boudinage; Wellman; Solve 3 Stretches; 2D-3D compatibility; Dislocation Glide; U3 (digital universal stage). Further information: D. G. De Paor, 4514 Dresden Road, Baltimore, MD 21208, U.S.A. Fax: 410 655 3741.

Thanks to all who have contributed information to this Newsletter.

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