FOR YOUR BOOKSHELVES

EDITOR'S NOTE: The following list of new publications, reprints, proceedings of symposia/conferences and excursion guidebooks covers only those announcements received in the IUGS Secretariat over the past four months.

NEW BOOKS

- Anderson, J.G.C. THE STRUCTURE OF WESTERN EUROPE. Pergamon Press Ltd., Oxford, U.K., (1977), 256p. \$9.00.
- Allègre, C.J. and Hart, S.R. (eds.) TRACE ELEMENTS IN IGNEOUS PETROLOGY. Elsevier Scientific Publishing Company, Amsterdam and New York, (1977), 320p. \$49.50, Dfl. 121.00. Reprinted from *Earth and Planetary Science Letters*, Vol. 38, no. 1.
- Augustithis, S.S. ATLAS OF THE TEXTURAL PATTERNS OF BASALTS AND THEIR GENETIC SIGNIFICANCE. Elsevier Scientific Publishing Company, Amsterdam and New York, (1977), 340p. \$69.50, Dfl. 170.00. Covers all aspects of basalt from its origin and tectonic environment to comparisons between terrestrial basalts and their lunar equivalents.
- Bishop, W.W. (ed.) GEOLOGICAL BACKGROUND TO FOSSIL MAN. Geological Society, London. Published by Scottish Academic Press, Edinburgh, Scotland, (1978), 600p. 25 pounds plus postage and packing. Recent research in the Gregory Rift Valley, East Africa stressing the geological and archaeological context of the remarkable hominid discoveries.
- Bowen, R. and Gunatilaka, A. COPPER: ITS GEOLOGY AND ECONOMICS. John Wiley & Sons, Inc., Somerset, N.J., U.S.A., (1977), 300p. \$49.50. Explores the world of copper and the inter-relationships of deposits with subducting plate margins through geological time.
- Castany, G. and Margat, J. DICTIONNAIRE FRANCAIS D'HYDROLOGIE. B.R.G.M., B.P. 6009, 45018 Orléans, Cedex, France, (1977), 269p. 75.00 Ff, (text in French).
- Chorwicz, J. ETUDE GEOLOGIQUE DES DINARIDES LE LONG DE LA STRUCTURE TRANSVERSALE SPLIT-KARLOVAC (YUGOSLAVIE). Société Géologique du Nord, VER des Sciences de la Terre, Université de Lille, B.P. 36, 59650 Villeneuve d'Ascq, France, (1977), 331p. 130 Ff, (text in French).
- Clague, J.J., Gardner, R.H., Ricker, K.E and Donley, M.W. BIBLIOGRAPHY OF MARINE GEOSCIENCE INFORMATION, PACIFIC REGIONS OF CANADA, 1900-1976. Geol. Surv. of Canada, Paper 77-22, (1977), 43p. \$3.00.
- Cook, T.D. and Bally, A.W. STRATIGRAPHIC ATLAS OF NORTH AND CENTRAL AMERICA. Princeton University Press, Princeton, N.J., U.S.A., (1977), 264p. \$62.50, 37.40 pounds. Drawn from sixty years work on the continent by exploration staff of Shell Oil Company. The maps represent the character and distribution of rocks assigned to specific stratigraphic units. Within each major subdivision the sequence begins with an outcrop map and the table of stratigraphic columns.
- Flügel, E. MIKROFAZIELLE UNTERSUCHUNGSMETHODEN VON KALKEN. Springer-Verlag, Berlin, Heidelberg and New York, (1977), 360p. \$39.00, DM 78.00, (text in German).
- Ford, T.D. and Cullingford, C.H.D. THE SCIENCE OF SPELEOLOGY. Academic Press, London, New York and San Francisco, (1976), 594p. \$29.50, 14.00 pounds.
- Fisher, J.H. (ed.) REEFS AND EVAPORITES-CONCEPTS AND DEPOSITIONAL MODELS. Studies in Geology No. 5, American Association of Petroleum Geologists, Tulsa, Oklahoma, U.S.A., (1977), 204p. AAPG-SEPM members \$15.00, non-members \$18.00. Opposing theories and models of reef and evaporite formation argue their merits with modern-day analogs cited.
- Harbaugh, J.W., Doveton, J.H. and Davis, J.C. PROBABILITY METHODS IN OIL EXPLORATION. John Wiley & Sons, Inc., Somerset, N.J., U.S.A., (1977), 269p. \$18.95. Provides thorough coverage of the methods necessary for objectively and quantitatively estimating outcome probabilities in oil exploration.
- Humbert, L. ASPECTS OF THE DYNAMIC PETROLOGY OF LIMESTONE SYSTEMS. Editions Technip, 27 rue Ginoux, 75737 Paris, France, (1976), Vol. 1: Macroscopic and microscopic descriptions. Diagenesis. Applications. 240p. Vol. 2: Photo-atlas. 216p. Two volumes 440 Ff, (text in French with English abstracts for each chapter).
- Jungclauss, I. (ed.) DAS BUCH VOM ERDOL. Deutsche BP AG, Hamburg, available from Reuter and Klöckner Buchhandlung, Feldbrunnenstrasse 57, 2000 Hamburg 13, Federal Republic of Germany, (1978), 750p. DM 48.00, (text in German). A compendium of the petroleum industry.
- Katterfeld, G.N. (ed.) PROBLEMS OF PLANETOLOGY Volume 2. Tectonics and Volcanism of Planets. Publishing House of the Academy of Sciences of the Armenian SSR, Yerevan, (1977), 200p.
- King, P.B. THE EVOLUTION OF NORTH AMERICA. Princeton University Press, Princeton, N.J., U.S.A., (1977), 216p. paper \$12.00, 7.10 pounds, cloth \$31.50, 18.70 pounds.
- Klemm, D.D. and Schneider, H.J. (eds.) TIME- AND STRATA-BOUND ORE DEPOSITS. Springer-Verlag, Berlin, Heidelberg and New York, (1977), 480p. \$39.60, DM86. Covers nearly all aspects of this complex subject by original contributions dedicated to Albert Maucher.

- Kostura, J.R. and Ravenscroft, J.H. (compilers). FRACTURE CONTROLLED PRODUCTION. Reprint series no. 21, American Association of Petroleum Geologists, Tulsa, Oklahoma, U.S.A., (1977), 224p. AAPG-SEPM members \$5.00, non-members \$6.00. Volume is a compilation of 13 papers from 1949-1973 AAPG Bulletin and from AAPG Memoirs 16 and 18.
- Lama, R.D. et al. HANDBOOK ON MECHANICAL PROPERTIES OF ROCKS: VOLUME 2. Trans Tech Publications, Rockport, Mass., U.S.A., and CH-4711 Aedermannsdorf, Switzerland, (1978), 350p. \$45.00, 112.50 sFr. Static elastic constants of rocks with appendix on laboratory mechanical properties of rocks.
- Lama, R.D. et al. HANDBOOK ON MECHANICAL PROPERTIES OF ROCKS: VOLUME 3. Trans Tech Publications, Rockport, Mass., U.S.A., and CH-4711 Aedermannsdorf, Switzerland, (1978), 350p. \$45.00, 112.50 sFr. In situ testing of rocks. Time dependent properties of rocks with appendices on in situ mechanical properties of rocks and crack propagation velocity in rocks.
- Lama, R.D. et al. HANDBOOK ON MECHANICAL PROPERTIES OF ROCKS: VOLUME 4. Trans Tech Publications, Rockport, Mass., U.S.A., and CH-4711 Aedermannsdorf, Switzerland, (1978), 350p. \$45.00, 112.50 sFr. Mechanical behaviour of jointed rock. Classification of rocks and miscellaneous properties of rocks with appendices on imperial, metric and SI units, stereographic projections and definitions of some rock mechanics terms.
- McQuillin, R. and Ardu, D.A. EXPLORING THE GEOLOGY OF SHELF SEAS. Graham and Trotman Ltd., Bond Street House, 14 Clifford Street, London W1X 1RD, U.K., (1975), \$21, 10.5 pounds (surface mail) or \$26, 13 pounds (air mail).
- Melchior, P. THE TIDES OF THE PLANET EARTH. Pergamon Press Ltd., Oxford, U.K., (1977), 2500 references.
- Mihaylova, N.P., Glevasskaya, A.M. and Tsykora, V.N. PALEOMAGNETISM OF VOLCANIC ROCK TYPES AND RECONSTRUCTION OF THE GEOMAGNETIC FIELD OF THE NEOGENE (PALEOMAGNETIZM VULKANOGENNYH POROD I REKONSTRUKTSIYA GEOMAGNITNOGO POLYA NEOGENA). Izd. "Naukova Dumka", Kiev, (1974), (text in Russian).
- Muxart, T. and Birot, P. L'ALTERATION METEORIQUE DES ROCHES. Departement de Géographie de l'Université de Paris-Sorbonne, 191 rue St. Jacques, 75005 Paris, France, (1977), 279p. 56.00 Ff, (text in French).
- Naylor, D. and Mounteney, S.N. GEOLOGY OF THE NORTH WEST EUROPEAN CONTINENTAL SHELF. Volume 1: The West British Shelf. Graham and Trotman Ltd., Bond Street House, 14 Clifford Street, London W1X 1RD, U.K., (1975), \$15, 7.5 pounds (surface mail) or \$20, 10 pounds (air mail).
- Payton, C.E. (ed.) SEISMIC STRATIGRAPHY-APPLICATIONS TO HYDROCARBON EXPLORATION. Memoir 26, American Association of Petroleum Geologists, Tulsa, Oklahoma, (1977), AAPG-SEPM members \$18.00, non-members \$22.00. An outgrowth of the first research symposium on seismic stratigraphy at the 1975 AAPG Annual Meeting and from the AAPG-SEPM School on Seismic Stratigraphy.
- Pegrum, R. and Naylor, D. GEOLOGY OF THE NORTH-WEST EUROPEAN CONTINENTAL SHELF. Volume 2: The North Sea. Graham and Trotman Ltd., Bond Street House, 14 Clifford Street, London W1X 1RD, U.K., (1975), \$19, 9.5 pounds (surface mail) or \$24, 12 pounds (air mail).
- Picot, P. and Johan, Z. ATLAS DES MINERAUX METALLIQUES. Memoire B.R.G.M. no. 90. B.R.G.M., B.P. 6009, 45018 Orléans Cedex, France, (1977), 408 p. 320.00 Ff, (text in French).
- Remy, W. and Remy, R. DIE FLOREN DES ERDALTERTUMS. Verlag Gluckauf GMBH, Postfach 1794, 4300 Essen 1, Federal Republic of Germany, (1977), 470p. DM 68.00, (text in German).
- Robertson Research International Limited. GEOLOGICAL REPORT ON THE WESTERN APPROACHES AND SOUTHERN CELTIC SEA. Robertson Research International Limited, 'Ty'n-y-coed', Llanhros, Llandudno, Gwynedd LL30 1SA, North Wales, U.K.
- Sand, L.B. and Numpton, F.A. NATURAL ZEOLITES: OCCURRENCE, PROPERTIES, USE. Pergamon Press Ltd., Oxford, U.K., (1977), 576p. \$75.00. Selected papers from symposium ZEOLITE '76 held in Tucson, Arizona.
- Sano, S. (ed.). OFFSHORE HYDROCARBON AND HEAVY MINERALS INVESTIGATION IN EAST ASIA. Economic and Social Commission For Asia and the Pacific-Committee for Co-ordination of Joint Prospecting for Mineral Resources in Asian Offshore Areas (CCOP). United Nations ESCAP, CCOP Tech. Bull. vol. 11, (1977), 182p. Order from: Office of Project Manager, UNDP Technical Support for Regional Offshore Prospecting in East Asia, United Nations ESCAP, Sala Santitham, Bangkok 2, Thailand.
- Sikabonyi, L.A. FUTURE OF PETROLEUM AND NATURAL GAS IN EUROPE. PGS Publications P.O. Box 12023, 00136 ROMA, Belsito, Italy, (1978), \$48.00, plus air mail charge: North America \$5.50, Asia \$9.00, Europe \$5.50.
- Sorohtin, O.G. GLOBAL EVOLUTION OF THE EARTH. (GLOBAL'NAYA EVOLYUTSIYA ZEMLI). Izd. "Nauka", Moscow, (1974), 184p. 74 kop., (text in Russian).
- Williams, M.A.J. and Faure, H. THE SAHARA AND THE NILE. A.A. Balkema Rotterdam, Netherlands, (1978), 300p. \$22.50, DM56. Assembles recent evidence from geology, biology and archaeology and examines the prehistoric links between our largest desert and one of our longest rivers to throw new light on man's response to environmental change in northern Africa during the past 40000 years.
- Zussman, J. (ed.) PHYSICAL METHODS IN DETERMINATIVE MINERALOGY, Second Editon. Academic Press, London, New York and San Francisco, (1977), 720p. \$45.00, 23.50 pounds. Greatly revised edition of successful work first published in 1967.

PAPERS OR PROCEEDINGS OF 25TH IGC

Butt, C.R.M. and Wilding, I.G.P. (eds.) GEOCHEMICAL EXPLORATION 1976. Elsevier Scientific Publishing Company, Amsterdam and New York, (1977), 494p. \$42.50, Dfl. 104.00. Proceedings of the Sixth International Geochemical Exploration Symposium held in Sydney, Australia, during the 25th International Geological Congress, 1976.

Cooray, P. G. (ed.) GEOSCIENCE EDUCATION IN DEVELOPING COUNTRIES. AGID Report No. 5. AGID, Dept. of Geology, Memorial University, St. John's, Nfld, Canada, (1977), 56p. \$5.00. Symposium sponsored by AGID at the 25th International Geological Congress, Sydney, Australia, 1976.

Mumme, I.A. and Ball, R.A., 1977, On the genesis of volcanic opal at Houghlan's Creek near Teven Tintenbar, New South Wales: Australian Mineralogist, v. 8, p. 33-35.

PROCEEDINGS OF CONFERENCES AND SYMPOSIA

Alberdi, M.T. and Aguirre, E. ROUND-TABLE ON MASTOSTRATIGRAPHY OF THE W. MEDITERRANEAN NEOGENE. Seccion de Paleontologia de Vertebrados y Humana, I.L.M., CSIC., Publicaciones de la Escuela Tecnica Superior de Ingenieros Industriales de Madrid, (1977), 47p., (text in English, French and Spanish). Published results of meeting held in Madrid, Spain from 28 September to 1 October, 1976 and partly sponsored by IGCP Projects 25 (Tethys-Paratethys Neogene) and 41 (The Boundary between Neogene and Quaternary).

-Abstracts of symposium: INTERNATIONAL SYMPOSIUM ON THE NEOGENE-QUATERNARY BOUNDARY. Izd. 'Nauka', Moscow, (1978), 59p. 35 kop., (text in Russian and English). International symposium of IGCP Project 41, The Neogene-Quaternary Boundary and International Union for Quaternary Research.

Bergman, M. (ed.) ROCKSTORE 77. Pergamon Press Ltd., Oxford, U.K., (1977), 1000p. \$250.00. Proceedings of the First International Symposium on Storage in Excavated Rock Caverns, Stockholm, September 1977.

Cater, M.C., MacDonald J. SEAPEX PROCEEDINGS. Southeast Asia Petroleum Exploration Society, Tanglin P.O. Box 423, Singapore 10, (1976), 134p. \$11 to non-members, including surface postage (add \$9 for air mail delivery from Singapore).

Hardy, Jr., H.R. and Leighton, F.W. PROCEEDINGS FIRST CONFERENCE ON ACOUSTIC EMISSION/MICROSEISMIC ACTIVITY IN GEOLOGICAL STRUCTURES AND MATERIALS, SERIES ON ROCK AND SOIL MECHANICS. Trans Tech Publications, Rockport, Mass., U.S.A., and CH-4711 Aedsmansdort, Switzerland, (1977) 490p. \$40.00, 100.00 sFr.

Narain, Hari, Raghava Rao, K.V., Balakrishnan, S. (eds.) - EXPLORATION TECHNIQUES FOR GROUND

WATER. The scientific Secretary, COSTED Secretariat, Indian Institute of Science, Bangalore 560 012, India, 380p. \$7, Rs. 35.

-Proceedings of symposium: RECHERCHER LES MESURES APPROPRIÉES A LA SAUVEGARDE DE LA QUALITE DES EAUX POUR LE MAINTIEN DE LA SANTE PUBLIQUE EN RAPPORT AVEC LES BESOINS DU DEVELOPPEMENT. Vol. 1: Causes externes de pollution, 213p., Vol. 2: Conditions naturelles de propagation des pollutions, 316p., Vol. 3: Conditions économique, 169p., Vol. 4: Résumé des discussions et le rapport final du Colloque. B.R.G.M., B.P. 6009, 45018 Orléans Cedex, France, 215.00 Ff, (text in French). Symposium held in Orléans, 1 and 2 March, 1977.

-Proceedings of symposium: LES EAUX SOUTERRAINES ET L'APPROVISIONNEMENT EN EAU DE LA FRANCE. In two volumes with a third: Résumé des discussions et le rapport final du Colloque. B.R.G.M., B.P. 6009, 45018 Orléans Cedex, France, cost of 3 Volumes: 210.00 Ff, (text in French). Symposium held in Nice, 27 to 28 October, 1977.

-Proceedings of 2nd Latin American Geological Congress: SEGUNDA CONGRESO LATINAMERICANO DE GEOLOGIA TOMO III. Boletín de Geología, Publicación Especial No. 7, Republica de Venezuela, Ministerio de Minas e Hidrocarburos, Direccion de Geología, (1977), 910p., (text in Spanish, English and French).

Saito, T. and Ujiie, H. PROCEEDINGS OF THE FIRST INTERNATIONAL CONGRESS ON PACIFIC NEOGENE STRATIGRAPHY, TOKYO, 1976. IUGS Commission on Stratigraphy Regional Committee on Pacific Neogene Stratigraphy, (1977), 433p. All inquiries should be addressed to: Dr. Hiroshi Ujiie, c/o Kaiyo Shuppan Co. Ltd., 7-5, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan.

Sano, S. (ed.). ECONOMIC AND SOCIAL COMMISSION FOR ASIA AND THE PACIFIC-COMMITTEE FOR CO-ORDINATION OF JOINT PROSPECTING FOR MINERAL RESOURCES IN ASIAN OFFSHORE AREAS (CCOP). United Nations ESCAP, CCOP Tech. Bull. vol. 8, (1974), 118p. Papers presented at an International Decade of Ocean Exploration Workshop sponsored by CCOP and UNESCO in 1973. Order from: Office of Project Manager, UNDP Technical Support for Regional Offshore Prospecting in East Asia, United Nations ESCAP, Sala Santitham, Bangkok 2, Thailand.

-Special issue on IGCP Project No. 86: EASTERN EUROPEAN PLATFORM (S.W. BORDER). Zeitschrift für Angewandte Geologie, Band 23, Sept. 1977, Heft 9.

-Special issue on: RECENT ACTIVITY IN THE MOON. Physics of the Earth and Planetary Interiors, v. 14, no. 3, Elsevier Scientific Publishing Company, Amsterdam and New York, (1977), 148p. \$21.25, Dfl 52.00. Proceedings of a Special Symposium at the Seventh Lunar Science Conference, Lunar Science Institute, Houston, Texas, March 16, 1976.

-Special issue on: LANDSLIDES AND OTHER MASS MOVEMENTS. Bulletin 16, International Association of Engineering Geology, c/o

De-Greiff-Str. 195, Postfach 1080, Federal Republic of Germany. Proceedings of symposium on Landslides and other Mass Movements, Prague, Czechoslovakia, September, 1977.

EXCURSION GUIDES

Dodonov, A.Y., Melamed, Y.R. and Nikiforova, K.V. (eds.) INTERNATIONAL SYMPOSIUM ON THE NEOGENE-QUATERNARY BOUNDARY: EXCURSION GUIDE BOOK. Izd. 'Nauka', Moscow, (1977), 183p. 30 kop., (text in Russian and English). International symposium of IGCP Project 41, The Neogene Quaternary Boundary and INQUA Field trip to Tajikistan, USSR.

NEW JOURNALS

ORGANIC GEOCHEMISTRY

A publication of the International Association of Geochemistry and Cosmochemistry. Published quarterly by Pergamon Press Ltd., Oxford, U.K., annual subscription \$60.00.

Editor-in-Chief:

I.A. Breger

U.S. Geological Survey, 923 National Center
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Editors:

E.M. Borgese and N. Ginsburg

BIBLIOGRAPHIES

Aguirre, L., and Pitcher, W.S. ANNOTATED BIBLIOGRAPHY OF MESOZOIC AND CENOZOIC PLUTONISM IN THE CIRCUM-PACIFIC. Compilation of 1600 references is a contribution to IGCP Project 30: Circum-Pacific Plutonism. Cost \$20.00, 11.00 pounds (includes air mail postage). Order from: Prof. W.S. Pitcher, Dept. of Geology, University of Liverpool, Brownlow Street, P.O. Box 147, Liverpool L69 3L3X, U.K. Cheques should be made payable to 'University of Liverpool'.

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1:500,000 '74 in 4 sheets \$28

Ta471 Geological Map of Taiwan—
1:250,000 '74 in 4 sheets \$54

Ar173 Tectonic Maps of Polar Regions
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NEW MAPS

HAWAII

The US Geological Survey has recently published:

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U.S. Geological Survey,
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A list of U.S. Geological Survey geologic and
water-supply reports and maps on Hawaii and a
topographic map index of the State are available,
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HUNGARY

Map of metamorphites of the Carpatho-Balkan-
Dinaride area; (4 sheets at 1:1,000,000), 1976.
Editor-in-Chief: E. Szadeczky-Kardoss, Compilation
Editor: Péter Arkai. Published by the Laboratory
for Geochemical Research of the Hungarian Academy
of Sciences and the Central Office of Geology,
H-1112 Budapest, Budaorsi ut 45, Hungary, on behalf
of the Carpatho-Balkan Geological Association.

PAPUA NEW GUINEA

- 1 : 5.000.000
Metallogenic map of Australia and Papua New
Guinea (1972)
- 1 : 2.500.000
Mineral map of Papua New Guinea (1973). Price:
Austr. \$3.00.
- 1 : 1.000.000
Geological map of Papua New Guinea (1973) in
four sheets (NW, NE, SW, SE). Price per sheet:
Austr. \$3.00.
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Other Maps

South Sepik Region, map on 1 : 250.000 in BMR Bulletin, No. 133 (1972). Price: Austr. \$4.75.

Manus Island, preliminary map. Price Austr. \$1.00.

Magnetic Mapping, 1 : 250.000

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