COMING EVENTS

Signifies events wholly or partially sponsored by IUGS, one of its Affiliated Associations or joint ventures - the International Geological Correlation Programme (IGCP) or the Inter-Union Commission on Geodynamics (ICG).

1981

April 13 - 15

11th COLLOQUIUM OF AFRICAN GEOLOGY, Milton Keynes, U.K. (A.C. Ries, Dept. of Earth Sciences, The Open University, Milton Keynes, MK7 6AA, U.K.)

April 16 - 17

ROCKY MOUNTAIN SECTION, GEOLOGICAL SOCIETY OF AMERICA, (Annual Meeting), Rapid City, South Dakota, U.S.A. (K. E. Kolm, Department of Geology, South Dakota School of Mines & Technology, Rapid City, SD 57701, U.S.A.)

April 22 - 23

INTRODUCTION TO GEOTHERMAL LOG INTERPRETATION, (Technical Training Course No. 7), Reno, Nevada, U.S.A. (E. Clark, Geothermal Resources Council, P.O. Box 98, Davis, California 95617, U.S.A. Tel. 916-758-2360)

April 26 - 30

IL CONGRESSO LATINOAMERICANO DE PALEONTOLOGIA, Porto Alegre, Brazil. (I. Purper, 218 Ave. Osvaldo Aranha, 90.000 - Porto Alegre, RS, Brazil)

April 26 - May 2

INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN GEOTECHNICAL EARTHQUAKE ENGINEERING AND SOIL DYNAMICS, St. Louis, U.S.A. (S. Prakash, Dept. of Civil Engineering, University of Missouri, Rolla, MO. 65401, U.S.A.)

April 28 - 30

MULTIDISCIPLINARY STUDIES ON HUDSON-JAMES BAY, (Symposium), Guelph, Ontario, Canada. (J.P. Martini, Dept. of Land Resource Science, Ontario Agricultural College, Univ. of Guelph, Guelph, Ont., Canada N1G 2W1)

April 28 - May 2

SIGNIFICANCE AND PETROGENESIS OF MYLONITIC ROCKS, (GSA Penrose Conference), San Diego, California, U.S.A. (A.W. Snoke, Dept. of Geology, University of South Carolina, Columbia, South Carolina 29208, U.S.A.)

April 30 - May 1

NORTH-CENTRAL SECTION, GEOLOGICAL SOCIETY OF AMERICA, (Annual Meeting), Ames, Iowa, U.S.A. (C.F. Vondra, Dept. of Earth Sciences, Iowa State University, Ames, Iowa 50010, U.S.A.)

May

CONCEPTS AND METHODS IN PALEONTOLOGY, (Symposium), Barcelona, Spain. (J. Martinell, Departamento de Paleontologia, Facultad de Geologia, Universitaria de Barcelona, Gran Via de les Corts Catalanes 585, Barcelona 7, Spain)

May 1

* **CORRELATION OF CALEDONIAN STRATABOUND SULPHIDES**, (IGCP Project 60, Symposium), Glasgow, U.K. With pre-symposium field excursion to the Dalradian rocks of the Grampian Highlands. (M. J. Gallagher, Institute of Geological Sciences, Murchison House, West Mains Road, Edinburgh EH9 3LA, U.K. Tel. 031-667-1000)

May 2 - 11

VARISCAN STRUCTURES OF SOUTHWEST ENGLAND AND SOUTHERN BRITANNY, (Field Meeting), U.K. and France. Tectonic Studies Group Meeting of the Geological Society. (A. Ries, Department of Earth Sciences, The Open University, Milton Keynes MK7 6AA, U.K.)

May 3 - 5

ENVIRONMENTALLY COMPATIBLE HYDRO-DEVELOPMENT, (Meeting), Ottawa, Canada. Canadian Water Resources Association, Ontario Region. (H.B. Rosenberg, Environment Canada, Ottawa, Ontario, Canada K1A 0E7)

May 3 - 7

RAPID EXCAVATION AND TUNNELLING, (5th Conference), San Francisco, U.S.A. (R. Oroligir, Caller No. D, Littleton, Colorado 80123, U.S.A.)

May 4 - 8

EMERGING ENVIRONMENTAL SOLUTIONS

FOR THE EIGHTIES, (27th Annual Technical Meeting), Los Angeles, U.S.A. (Institute of Environmental Sciences, 940 East Northwest Highway, Mt. Prospect, Illinois 60056, U.S.A.)

May 4 - 8

THIRD BRAZILIAN CONGRESS OF ENGINEERING GEOLOGY, Camboriu, Santa Catarina, Brazil. Organized by Associação Brasileira de Geologia de Engenharia. (Secretaria do 3º C.B.G.E., Rua Tupi, 841, 02133 Sao Paulo, Brazil)

May 5 - 16

FIRST INTERNATIONAL SYMPOSIUM ON CRUSTAL MOVEMENTS IN AFRICA, Addis Ababa, Ethiopia. Sponsored by the Economic Commission for Africa. The first meeting of the Commission on Recent Crustal Movements (Africa) will be held with the symposium. (A.M. Wassef, CRCM, (Africa), P.O. Box 3001, Addis Ababa, Ethiopia)

May 6 - 7

BRITISH CONTRIBUTIONS TO THE INTERNATIONAL PHASE OF OCEAN DRILLING (IPOD), (Marine Studies Group meeting), London, England. Meeting on Glomar Challenger drilling results. (E.J.W. Jones, Dept. of Geology, University College, London, Gower Street, London WC1E 6BT, U.K.)

May 6 - 8

HIGHWAY GEOLOGY, (Annual symposium), Gatlingburg, Tennessee, U.S.A. (D.L. Royster, Tenn. Dept. of Transportation, 2200 Charlotte Ave., Nashville, Tenn. 37203, U.S.A.)

May 6 - 9

* **THIRD ENGINEERING GEOLOGY NATIONAL MEETING**, Ansbach, F.R.G. Organized by IAEG - Group of the German Geological Society and German Society for Soil and Foundation Engineering. (Tagung Ingenieurgeologie 1981, Bayerisches Geologisches Landesamt, Prinzregentenstrasse 28, D-8000 München 22, F.R.G.)

May 6 - 10

SCANNING ELECTRON MICROSCOPY IN GEOLOGY, (Symposium), Tempe, Arizona, U.S.A. (D.H. Krinsley, Dept. of Geology, Arizona State University, Tempe, Arizona 85281, U.S.A.)

May 7 - 10

FLUID INCLUSIONS: PETROLOGIC APPLICATIONS, (Short Course), Calgary, Alberta, Canada. (E.D. Ghent, Dept. of Geology, University of Calgary, Calgary, Alberta, Canada T2N 1N4)

May 11 - 13

GEOLOGICAL ASSOCIATION OF CANADA, MINERALOGICAL ASSOCIATION OF CANADA, AND CANADIAN GEOPHYSICAL UNION, (Joint Annual Meetings), Calgary, Canada. (A.V. Morgan, Dept. of Earth Sciences, University of Waterloo, Waterloo, Ont., Canada N2L 3G1)

May 11 - 14

CROSS CUTTING RESEARCH IN TUNNELLING, (International Symposium), Nice, France. Organized by the French Tunnelling Association (AFTES). Languages: French and English. (Secretariat of AFTES Symposium Nice 1981, 21 boulevard Bourdon, 75004 Paris, France)

May 11 - 15

ENERGY AND EQUITY, (51st ANZAAS Congress), Brisbane, Australia. (R. Coleman, 51st ANZAAS Congress, c/o Dept. of Applied Geology, Institute of Technology, G.P.O. Box 2434, Brisbane, Queensland 4001, Australia)

May 11 - 15

RELIABILITY OF EARTH SLOPES, (Session at the ASCE National Convention), New York, U.S.A. (M.E. Hynes-Griffin, USAE Waterways Experiment Station, P.O. Box 631, Vicksburg, Mississippi 39180, U.S.A.)

May 13

VOLCANISM AT RIFTED MARGINS (Geological Society Ordinary and Volcanic Studies Group Meeting), London, England. (Geological Society, Burlington House, Piccadilly, London W1V 9HG, England)

May 13 - 15

INDUSTRIAL MINERALS, (Forum), Albuquerque, New Mexico, U.S.A. (G.S. Austin, New Mexico Bureau of Mines & Mineral Resources, Campus Station, Socorro, N.M. 87801, U.S.A.)

May 14

MINERALIZING FLUIDS, (Joint meeting: Mineral Deposits Studies Group and Applied Mineralogy Group of the Geological Society), London, England. (N.J. Fortey, Institute of Geological Sciences, 64 - 78 Grays Inn Road, London WC1X 8NG, England)

May 14 - 15

NEW CONCEPTS AND METHODS IN STRATIGRAPHY, (Course), Calgary, Alberta, Canada. (P.F. Sherrington, Petro-Canada Exploration Inc., Box 2844, Calgary, Alberta, Canada T2P 2M7)

May 14 - 16

CLAYS: PROBLEMS, APPLICATIONS AND INVESTIGATIVE TECHNIQUES, (Course), Calgary, Alberta, Canada. Mineralogical Association of Canada. (F.J. Longstaffe, Dept. of Geology, University of Alberta, Edmonton, Alberta, Canada T6G 2E3)

May 18 - 21

MECHANICAL BEHAVIOUR OF STRUCTURED MEDIA, (Symposium), Ottawa, Canada. (A.P.S. Selvadurai, Dept. of Civil Engineering, Carleton University, Ottawa, Ontario, Canada K1S 5B6)

May 18 - 22

INTERNATIONAL CORAL REEF SYMPOSIUM, Manila, Philippines. (Marine Sciences Center, University of the Philippines, Box 1, Diliman, Quezon City 3004, Philippines)

May 18 - 23

ANALYSIS OF SEISMICITY AND SEISMIC HAZARD, (2nd International Symposium), Prague, Czechoslovakia. (V. Karnik, Organizing Committee of the Symposium, Geo-Physical Institute of the Czechoslovak Academy of Sciences, Bocni II, 14131 Prague 4, Sporilov, Czechoslovakia)

May 20 - 22

GEOTHERMAL POTENTIAL OF THE CASCADE MOUNTAIN RANGE, (Symposium), Portland, Oregon, U.S.A. (E. Clark, Geothermal Resources Council, P.O. Box 98, Davis, California 95617, U.S.A. Tel. 916-758-2360)

May 22 - 24

QUATERNARY DATING METHODS, (Symposium), Toronto, Canada. (W.C. Mahaney, Dept. of Geography, Atkinson College, York University, Downsview, Ont., Canada M3J 2R7)

May 25 - 27

INDONESIAN PETROLEUM ASSOCIATION, (10th ann. meeting & field trips), Jakarta, Indonesia. (T.A. Miller, Atlantic Richfield Indonesia Inc., Box 63/JKT, Jakarta, Indonesia)

May 25 - 29

AMERICAN GEOPHYSICAL UNION, (Spring Meeting), Baltimore, U.S.A. (Meetings, AGU, 2000 Florida Avenue NW, Washington, D.C. 20009, U.S.A.)

May 31 - June 3

AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS AND SOCIETY OF ECONOMIC PALEONTOLOGISTS AND MINERALOGISTS, (Annual Meeting), San Francisco, U.S.A. (Kathy Watson, AAPG, Box 979, Tulsa, OK 74101, U.S.A.)

May 31 - June 3

THE SHELF-SLOPE BOUNDARY - A CRITICAL INTERFACE ON CONTINENTAL MARGINS, (SEPM symposium), San Francisco, U.S.A. (D.J. Stanley, Division of Sedimentology, E-109, Museum of Natural History, Smithsonian Institution, Washington, D.C. 20560, U.S.A.)

June 1 - 3

STABILITY IN SURFACE MINING, (3rd International Conference), Vancouver, Canada. (Coordinator, Surface Mine Stability Conference, P.O. Box 91651, West Vancouver, British Columbia, Canada V7V 3P3)

COMING EVENTS . . .

- June 1 - 5
INERTIAL TECHNOLOGY FOR SURVEYING AND GEODESY, (2nd International Symposium), Banff, Canada. (ISS Symposium 1981, Division of Surveying Engineering, The University of Calgary, Calgary, Alberta, Canada T2N 1N4)
- June 1 - 10
* **SEDIMENTARY GEOLOGY OF HIGHLY METAMORPHOSED PRECAMBRIAN COMPLEXES**, (Joint meeting IGCP projects 160/91), Petrozavodsk, U.S.S.R. (E. Dimroth, Sciences de la Terre, Université du Québec à Chicoutimi, 930 est. rue Jacques-Cartier, Chicoutimi, Quebec, Canada G7H 2B1)
- June 8 - 10
REMOTE SENSING, (Symposium), Washington, D.C. IEEE Geoscience Remote-Sensing Society. (S. Shanmugam, Remote Sensing Laboratory, University of Kansas, Lawrence, Kansas 66044, U.S.A.)
- June 8 - 13
GROUNDWATER '81, (International Conference and Exhibition), Kuala Lumpur, Malaysia. Theme: Soil Investigation and Groundwater for Developing Nations. (Conference Manager, Groundwater '81, P.O. Box 142, Chatswood 2067, New South Wales, Australia)
- June 9 - 10
6th POLISH CONFERENCE ON SOIL MECHANICS AND FOUNDATION ENGINEERING, Warsaw, Poland. Organized by the Polish Committee on Geotechnics. Languages: Polish, English, French, Russian. (The Organizing Committee, OPT - M.O.T., Dz. Konferencyjii Kongresow, ul. Swietojska 5/7, 00-236 Warszawa, Poland)
- June 9 - 11
NEW MINERAL RAW MATERIALS (NEMIRAM), (Symposium), Karlovy Vary, Czechoslovakia. (Geological Survey, Prague, Malostranské nám. 19, 118 21 Praha 1, Czechoslovakia)
- June 11 - 12
NORWEGIAN GEOTECHNICAL INSTITUTE, (Open House), Oslo, Norway. (Secretariat, Norwegian Geotechnical Society, c/o Norwegian Geotechnical Institute, P.O. Box 40 Taasen, Oslo 8, Norway)
- June 11 - 13
* **TUNNEL 81**, (International Tunnelling Congress 1981), Dusseldorf, F.R.G. Organized by the German Society for Soil Mechanics and Foundation Engineering and co-sponsored by ISSMFE, ISRM, and IAEG. (Dusseldorf Messegelellschaft MbH - NOWEA, Postfach 320203, D-4000 Dusseldorf 30, F.R.G.)
- June 15 - 19
INTERNATIONAL SOCIETY FOR SOIL MECHANICS AND FOUNDATION ENGINEERING (Tenth International Conference), Stockholm, Sweden. Languages: English and French. (Secretary General, X ISSMFE, Jakobs Torg 3, S-11152 Stockholm, Sweden)
- June 22 - 26
EROSION AND SEDIMENT TRANSPORT MEASUREMENT, (International Symposium) Florence, Italy. Italian National Research Council and International Association of Hydrological Sciences. Languages: English, French and Italian. (P. Tacconi, Istituto di Ingegneria Civile, Via S. Marta 3, 50139 Firenze, Italy)
- June 22 - 26
LA CARTOGRAPHIE THÉMATIQUE DES RÉSULTATS DE LA TÉLÉDETECTION, Toulouse, France. Languages: French and English. (Groupement pour le Développement de la Télédétection Aérospatiale, 18, avenue Edouard-Belin, 31055 Toulouse Cedex, France)
- June 22 - 27
FOURTEENTH SESSION OF IOC EXECUTIVE COUNCIL, Tenerife, Canary Islands. (Secretary, IOC, Unesco, 7 place de Fontenoy, 75700 Paris, France)
- June 23 - 26
MACHINE PROCESSING OF REMOTELY SENSED DATA, (Symposium), West Lafayette, Indiana, U.S.A. (D.B. Morrison, Purdue University/LARS, 1220 Potter Drive, West Lafayette, Indiana 47906, U.S.A.)
- June 24 - 26
ICAM 81 - INTERNATIONAL CONFERENCE ON APPLIED MINERALOGY IN THE MINERAL
- INDUSTRY**, Johannesburg, South Africa. Pre- and post-conference field excursions. (L.F. Haughton, ICAM 81, Nat. Inst. for Metallurgy, Private Bag X3015, Randburg 2125, South Africa)
- June 28 - July 1
23rd INTERNATIONAL SYMPOSIUM ON ARCTIC GEOLOGY, Calgary, Canada. (E.E. Pelzer, c/o Brunswick Res. Ltd., Suite 1401, 633 Sixth Ave. SW, Calgary, Canada T2P 2Y5)
- June 29 - July 2
ROCK MECHANICS FROM RESEARCH TO APPLICATION, (22nd U.S. Symposium on Rock Mechanics), Cambridge, Mass., U.S.A. (Seminar Office, Room 9-335, Center for Advanced Eng. Study, MIT, Cambridge, Mass. 02139, U.S.A.)
- July 6 - 7
* **3rd INTERNATIONAL PLATINUM SYMPOSIUM**, Pretoria, South Africa. (Symposium Secretariat S.217, CSIR, P.O. Box 395, Pretoria 0001, Republic of South Africa)
- July 6 - 11
* **GEOCONGRESS '81**, Pretoria, South Africa. (Symposium Secretariat S.217 CSIR, P.O. Box 395, Pretoria 0001, Republic of South Africa)
- July 7 - 9
RECENT ADVANCE IN BOUNDARY ELEMENT METHODS, (Third International Seminar), Irvine, California, U.S.A. International Society for Computational Methods in Engineering. (C.A. Brebbia, Seminar Director, Dept. of Civil Engineering, University of Southampton, Southampton 3095 NH, England)
- July 7 - 11
SOUTHERN AFRICAN GEODYNAMICS PROJECT, Pretoria, South Africa. (Symposium Secretariat S.217, CSIR, P.O. Box 395, Pretoria 0001, Republic of South Africa)
- July 8 - 17
SILICATE MELTS, (NATO Advanced Study Institute), Oxford, England. (D.G. Fraser, Dept. of Geology and Mineralogy, University of Oxford, Parks Road, Oxford OX1 3PR, England)
- July 14 - 18
MOUNTAIN BUILDING SYMPOSIUM, Zurich, Switzerland. (U. Briegel, Geological Institute, ETH-Zentrum, CH-8092 Zurich, Switzerland)
- July 21 - 23
SPATIAL VARIABILITY IN HYDROLOGIC MODELING, (AGU Chapman Conference), Fort Collins, Colorado, U.S.A. (Meetings, AGU, 2000 Florida Ave. NW, Washington, D.C. 20009, U.S.A.)
- July 21 - 30
INTERNATIONAL ASSOCIATION OF SEISMOLOGY & PHYSICS OF THE EARTH'S INTERIOR, (General Assembly), London, Ontario, Canada. (A.E. Beck, Dept. of Geophysics, University of Western Ontario, London, Ont., Canada N6A 5B7)
- August
NEW AND RENEWABLE SOURCES OF ENERGY, (UN Conference), Nairobi, Kenya. (Information Officer, UN Conference on New and Renewable Sources of Energy, DESI/DPI, Room 1072C, United Nations, New York, NY 10017, U.S.A.)
- August
* **THE SCANDINAVIAN AND GREENLAND CALEDONIDES REVIEWED**, Uppsala, Sweden. Symposium sponsored by IGCP Project 27 with excursions to Norway and Sweden. (D.G. Gee, SGU, Box 670, 75128 Uppsala, Sweden)
- August 3 - 6
IMPLEMENTATION OF COMPUTER PROCEDURES AND STRESS-STRAIN LAWS IN GEOTECHNICAL ENGINEERING, (Symposium), Blacksburg, U.S.A. (C.S. Desai, Dept. of Civil Engineering, Virginia Polytechnic Institute and State University, Blacksburg Virginia 24061, U.S.A.)
- August 4 - 7
ENERGY EDUCATION, (International Conference), Providence, R.I., U.S.A. (D.F. Kirwan, 1981 ICEE Conference Chairman, Office of Energy Education, University of Rhode Island, Kingston, Rhode Island 02881, U.S.A.)
- August 7 - 16
4th INTERNATIONAL CONFERENCE ON BASEMENT TECTONICS, (Conference with field excursions), Oslo, Norway. Major theme: Origin, propagation and significance of basement
- fractures. (R.H. Gabrielsen, Dept. of Geology, University of Oslo, Box 1047, Blindern, Oslo 3, Norway)
- August 9 - 13
* **SECOND INTERNATIONAL SYMPOSIUM OF THE CAMBRIAN SYSTEM**, Golden, Colorado, U.S.A. Sponsored by the Cambrian Subcommittee of the IUGS Commission on Stratigraphy, and the U.S. Geological Survey. (The Cambrian Symposium, Paleontology and Stratigraphy Branch, U.S. Geological Survey, Box 25046, Mail Stop 919, Denver Federal Center, Denver, CO 80225, U.S.A.)
- August 9 - 15
VARIATIONS IN THE GLOBAL WATER BUDGET, (Symposium), Oxford, England. (F.A. Street, School of Geography, Mansfield Road, Oxford OX1 3TB, England)
- August 15 - 25
INTERNATIONAL UNION OF CRYSTALLOGRAPHY, (12th General Assembly and Congress), Ottawa, Canada. (K. Charbonneau, XII IUCr Congress, National Research Council of Canada, Ottawa, Canada K1A 0R6)
- August 16 - 22
28th IUPAC CONGRESS, Vancouver, Canada. (IUPAC Congress Secretariat, c/o Chemical Institute of Canada, 151 Slater Street, Suite 906, Ottawa, Ontario, Canada K1P 5H3)
- August 17 - 21
METEORITICAL SOCIETY, (44th Annual Meeting), Bern, Switzerland. (P. Eberhardt, Physikalisches Institut, University of Bern, Sidlerstrasse 5, 3012 Bern, Switzerland)
- August 17 - 21
* **7th INTERNATIONAL CONFERENCE OF MID-CRETACEOUS EVENTS**, (and 5th meeting of the Project Working Group of MCE), Uppsala, Sweden. (R.A. Reymont, Paleontologiska Institutionen, Box 558, S-751 22 Uppsala, Sweden)
- August 17 - 21
SEDIMENTS THROUGH THE AGES, Perth, Australia. Conference sponsored by the Geological Society of Australia with field excursions to Hamersley Basin, Pilbara Block, Devonian Reef Complex (Canning Basin), and Quaternary Sediments of Shark Bay and Lake MacLeod. (P. E. Playford, Convention Chairman, Geological Survey of Western Australia, 66 Adelaide Terrace, Perth, Western Australia 6000, Australia)
- August 17 - 21
SOIL MICROMORPHOLOGY, (International Working Meeting), London, England. (P. Bullock, Rothamsted Experimental Station, Harpenden, Herts AL5 2JQ, U.K.)
- August 17 - 22
EARTH TIDES, (Symposium), New York, U.S.A. (J.T. Kuo, Aldridge Laboratory of Applied Geophysics, Henry Krumb School of Mines, Columbia University, New York 10027, U.S.A.)
- August 21 - 27
* **SILICEOUS DEPOSITS OF THE PACIFIC REGION**, IGCP Project 115, (2nd International Congress), Tokyo, Japan. (J.R. Hein, MS 99, U.S. Geological Survey, 345 Middlefield Road, Menlo Park, California 94025, U.S.A.)
- August 21 - 28
* **ECOSTRATIGRAPHY**, Allekvia, Gotland, Sweden. (IGCP Project 53) Preceded by special collecting excursions and followed by the International Graptolite Conference - see below. (A.J. Boucot, Dept. of Geology, Oregon State University, Corvallis, Oregon 97331, U.S.A.)
- August 24 - 26
MANAGEMENT OF GEODETIC DATA, (Symposium), Copenhagen, Denmark. (International Symposium on the Management of Geodetic Data, Geodaetisk Institut, Gamlehave Allé 22, DK-2920 Charlottenlund Denmark)
- August 24 - 28
* **UPPSALA CALEDONIDE SYMPOSIUM: THE SCANDINAVIAN CALEDONIDES REVIEWED**, Uppsala, Sweden. With pre- and post-symposium excursions in the Norwegian and Swedish Caledonides, in conjunction with IGCP Project 27. (D.G. Gee, SGU, Box 670, 75128 Uppsala, Sweden)
- August 24 - 29
WEATHERING ZONES AND THE PROBLEM

COMING EVENTS . . .

- OF GLACIER LIMITS AROUND THE NORTH ATLANTIC.** Canadian Quaternary Association (CANQUA), (International field workshop), Gaspé, Quebec, Canada. (J.T. Gray, Dépt. de Géographie, Université de Montréal, C.P. 6128, Succ. A., Montréal, Quebec, Canada H3J 3J7)
- August 24 - 29
8th ANNUAL MEETING EUROPEAN GEOPHYSICAL SOCIETY, (to be run simultaneously with the Uppsala Caledonide Symposium), Uppsala, Sweden. (C.-E. Lund, Dept. of Solid Earth Physics, University of Uppsala, P.O. Box 556, 75122 Uppsala, Sweden)
- August 25 - 31
*** CARBONIFEROUS STRATIGRAPHY FIELD MEETING**, U.K. Meeting organized by IUGS Subcommission on Carboniferous Stratigraphy. (J. Pattison, Inst. of Geological Sciences, Ring Road Halton, Leeds LS15 8TQ, U.K.)
- August 26 - September 3
16th INTERNATIONAL CONGRESS OF THE HISTORY OF SCIENCE, Bucharest, Romania. (S. Balan, Romanian Academy of Science, Calea Victoriei 125, Set 1, Bucharest, Romania)
- August 28 - September 9
ARC VOLCANISM, (IAVCEI Symposium), Tokyo, Japan. Pre- and post-meeting field trips. (D. Shimozuru, Earthquake Research Institute, University of Tokyo, Bunkyo-ku, Tokyo 113, Japan)
- August 29 - September 1
ÖSTERREICHEN MINERALOGISCHEN GESELLSCHAFT, and DEUTSCHEN MINERALOGISCHEN GESELLSCHAFT, (Joint meeting), Vienna, Austria. (G. Kurat, Naturhistorisches Museum Wien, Burgring 7, A-1014 Vienna, Austria)
- August 31 - September 4
GEOCHRONOLOGY, COSMOCHRONOLOGY AND ISOTOPE GEOLOGY, (Colloquium), Jerusalem, Israel. (M. Bielski, Dept. of Geology, The Hebrew University, Jerusalem, Israel)
- August 31 - September 4
ANTARCTIC GLACIOLOGY, (Symposium), Columbus, Ohio, U.S.A. Scientific Committee on Antarctic Research, International Commission of Snow and Ice, and International Glaciological Society. (Institute of Polar Studies, Ohio State University, Columbus, Ohio 43210, U.S.A.)
- August 31 - September 5
GEODETIC NETWORKS AND COMPUTATIONS, (6th International Symposium on Geodetic Computations), Munich, F.R.G. (Deutsche Geodätische Kommission, Bayerische Akademie der Wissenschaften, Marstallplatz 8, D-8000 München 22, F.R.G.)
- September
*** ARCHEAN GEOCHEMISTRY**, (IGCP Project 92, U.S. Working Group Field Conference), northern Wisconsin to Michigan Peninsula. (A.M. Goodwin, Dept. of Geology, University of Toronto, Toronto, Ontario, Canada)
- September
WEAK ROCK, (International Symposium), Tokyo, Japan. (Secretariat of the International Symposium on Weak Rock, c/o Japan Society of Civil Engineers, Yotsuya 1-chome, Shinjuku-ku, Tokyo 16C, Japan)
- September 1 - 4
COASTAL UPWELLING AND ITS SEDIMENT RECORD, Vilamoura/Algarve, Portugal. Sponsored by NATO, IDOE-NSF, ONR, and IUGS-CMG. Language: English. (J. Thiede, Dept. of Geology, University of Oslo, P.O. Box 1047, Oslo 3, Norway)
- September 1 - 4
THERMAL ANALYSIS, (2nd European Symposium), Aberdeen, U.K. (F.P. Glasser, Dept. of Chemistry, The University, Meston Walk, Old Aberdeen AB9 2UE, U.K.)
- September 1 - 6
*** SECOND INTERNATIONAL CONFERENCE, GRAPTOLITE WORKING GROUP OF THE INTERNATIONAL PALAEONTOLOGICAL ASSOCIATION**, (Conference and field excursions), Cambridge, U.K. (P.R. Crowther, Dept. of Geology, University of Cambridge, Sedgwick Museum, Downing Street, Cambridge CB2 3EQ, U.K.)
- September 2 - 4
FLOW AND TRANSPORT IN POROUS MEDIA, (Euromech Colloquium 143), Delft, Netherlands. (A. Verrijdt, Dept. of Civil Engineering, Delft University, Delft, Netherlands)
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- September 6 - 12
*** 7th INTERNATIONAL CLAY CONFERENCE**, Bologna and Pavia, Italy. Sponsored by AIPEA. (F. Veniale, Chairman of the Organizing Committee, 7th International Clay Conference 1981, c/o Instituto Mineralogia Petrografia, Università via Bassi 4, 27100 Pavia, Italy)
- September 6 - 14
CONTROLS OF CARBONATE PLATFORM EVOLUTION, (GSA Penrose Conference), Capri, Italy. With post-meeting field trip to Sicily. (J.L. Wilson, Dept. of Geological Sciences, University of Michigan, 1006 C.C. Little Building, Ann Arbor, Michigan 48109, U.S.A.)
- September 7 - 9
MECHANICS OF SEDIMENTATION AND FLUIDIZED BEDS, (Euromech Colloquium 144), Vienna, Austria. (W. Schneider, Technische Universität Wien, Wiedner Hauptstrasse 7, A-1040 Vienna, Austria)
- September 7 - 12
*** KAOLIN GENESIS AND UTILIZATION**, (IGCP Project 23 Workshop at 7th International Clay Conference), Bologna and Pavia, Italy. (M. Kuzvart, Institute of Geological Sciences, Charles University, Albertov 6, 128 43 Prague 2, Czechoslovakia 31)
- September 8 - 14
COASTAL LAGOONS, University of Bordeaux, France. (P. Lasserre, Secretary-General, ISCOL/Unesco '81, Institut de Biologie Marine, Université de Bordeaux - I, 33120 Arcachon, France)
- September 13 - 18
ENGINEERING GEOLOGY OF CONSTRUCTION MATERIALS, (17th Annual Meeting, Engineering Group of the Geological Society), Bangor, N. Wales, U.K. (Secretary of the Engineering Group, Geological Society, Burlington House, Piccadilly, London W1V 0JU, England)
- September 14 - 19
MESOZOIC TERRESTRIAL ECOSYSTEMS, (Second International Symposium), Jadwisin (near Warsaw), Poland. (H. Osmolska, Zakład Paleobiologii, Polska Akademia Nauk, Al. Zwirki i Wigury 93, 02-089 Warszawa, Poland)
- September 14 - 21
ENGINEERING GEOLOGICAL PROBLEMS OF CONSTRUCTION ON SOLUBLE ROCKS, (Symposium), Istanbul, Turkey. Sponsored by the Ministry of Energy and Natural Resources of Turkey and the International Association of Engineering Geology. Languages: English, French, Turkish. (T. Aklan, Sec. General, Turkish National Committee of Engineering Geology, P.K. 577 Kizilay, Ankara, Turkey)
- September 18 - 20
NEW YORK STATE GEOLOGICAL ASSOCIATION, (Annual Meeting and Field Trips), Binghamton, New York, U.S.A. (D. Coates, Dept. of Geological Sciences, SUNY, Binghamton, New York 13901, U.S.A.)
- September 20 - 24
LES PRESSIONS DE TERRAINS ET LE SOUTÈNEMENT, (Septième conférence internationale), Liège, Belgium. Institut national des industries extractives. Languages: English, French, and German. (M. van Duyse, INIEX, 209, rue du Chêra, 4000 Liège, Belgium)
- September 20 - 26
GEOLOGICAL CONGRESS OF ARGENTINA, San Luis, Argentina. (Secretary, Geological Congress of Argentina, Maipu 645 - 1st Floor, 1006 Buenos Aires, Argentina)
- September 21
INDUSTRIAL MINERALS OF THE AMERICAS - A VEHICLE FOR NATIONAL DEVELOPMENT, (First International Conference on Industrial Minerals), Kingston, Jamaica. (N. McFarlane, P.O. Box 350, Kingston, Jamaica, W.I.)
- September 21 - 25
MODERN AND ANCIENT FLUVIAL SYSTEMS: SEDIMENTOLOGY AND PROCESS, University of Keele, U.K. (T. Elliot, Singleton Park, Swansea SA2 8PP, Wales, U.K.)
- September 22 - 24
SOCIÉTÉ EUROPÉENNE POUR LA FORMATION DES INGÉNIEURS, (Annual Conference), Brighton, England. (SEFI Conference 1981, c/o Director's Office, Brighton Polytechnic, Moulsecoomb, Brighton BN2 4AT, England)
- September 24 - 25
REFRACTORIES, (International Colloquium), Aachen, F.R.G. (Institut für Gesteinshuttenkunde, der RWTH Aachen Mauerstrasse 3, D-5100 Aachen, F.R.G.)
- September 25 - October 2
*** METHODS OF APPLIED GEOCHEMISTRY**, (Second International Symposium), Irkutsk (Baikal), U.S.S.R., International Association of Geochemistry and Cosmochemistry (IAGC) Working Group, geochemical prospecting, and Siberian division of U.S.S.R., Academy of Sciences, Vinogradov Geochemistry Institute, Irkutsk. Languages: Russian and English. (P.V. Kovai, POB 701, 664633 Irkutsk, U.S.S.R.)
- September 28 - October 20
INDUSTRIAL APPLICATION OF RADIO-ISOTOPES AND RADIATION TECHNOLOGY, (International Conference), Grenoble, France. (D.A. Herbert, Dept. of Energy, Atomic Energy Division, Thames House, South Millbank, London SW1P 4QJ, England)
- October 4 - 7
ASSOCIATION OF EARTH SCIENCE EDITORS, (Annual Meeting), Denver, U.S.A. (J. Heller, U.S. Geological Survey, Box 25046, Stop 303, Denver Federal Center, Denver, Colorado 80225, U.S.A.)
- October 4 - 10
MINERAL DEPOSITS OF THE ALPS, (4th International Symposium and Fachsektion Lagerstättenforschung in the GDMB Annual Meeting), Berchtesgaden, F.R.G. (H. Vidal, Bayrisches Geologisches Landesamt, Prinzregentenstrasse 28, D-8 München, F.R.G.)
- October 5 - 8
GEOHERMAL RESOURCES COUNCIL, (Annual Meeting), Houston, U.S.A. (J. Akiyoshi or S. Roberts, Geothermal Resources Council, P.O. Box 98, Davis, CA 95616, U.S.A. Tel. 916-758-2360)
- October 7 - 9
ASSOCIATION OF SOUTHEAST ASIAN NATIONS COUNCIL ON PETROLEUM, (Meeting), Manila, Philippines. (ASCOPE '81 Organizing Secretariat, Philippine National Oil Co., 7901 Makati Ave., Makati, Metro Manila, Philippines. Telex: 63667 PNOC PM)
- October 7 - 10
AMERICAN ASSOCIATION OF STRATIGRAPHIC PALYNOLOGISTS, (Annual Meeting), New Orleans, U.S.A. (D.G. Benson, Amoco Production Co., P.O. Box 55879, New Orleans, Louisiana 70150, U.S.A.)
- October 14
GEOLOGICAL ASPECTS OF THE DISPOSAL OF RADIOACTIVE WASTE IN THE SEA, (Geological Society Marine Studies Group Meeting), London, England. (Geological Society, Burlington House, Piccadilly, London W1V 9HG, England)
- October 23 - 24
TENTH GEOCHAUQUA ON COMPUTER APPLICATIONS IN THE EARTH SCIENCES, Ottawa, Canada. Use of computers in mineral-resources evaluation; to be preceded by three-day workshop on interactive graphic computer programs. (F.P. Agterberg, Geological Survey of Canada, 601 Booth Street, Ottawa, Canada K1A 0E8)
- October 25 - 29
GEOHERMAL RESOURCES COUNCIL, (Annual Meeting) Houston, Texas, U.S.A. (B. Hall, Geothermal Resources Council, P.O. Box 98, Davis, California 95616, U.S.A. Tel. 916-758-2360)
- November 2 - 5
GEOLOGICAL SOCIETY OF AMERICA, (Annual meeting), Cincinnati, U.S.A. (S. Beggs, Geological Society of America, P.O. Box 9140, 3300 Penrose Place, Boulder, Colorado 80301, U.S.A.)
- November 3 - 9
REMOTE SENSING OF ARID AND SEMI-ARID LANDS, Cairo, Egypt. (D.M. Humphrey, Environmental Res. Inst. of Michigan, P.O. Box 8618, Ann Arbor, Michigan 48107, U.S.A.)
- November 18 - 23
GEOLOGY, MINERAL AND ENERGY RESOURCES OF SOUTH AND EAST ASIA, IV GEOSEA, Manila, Philippines. (The Secretariat, IV GEOSEA, c/o Geological Society of the Philippines, Bureau of Mines Building, Pedro Gil St., Malate, Philippines)

COMING EVENTS . . .

November 23 - 26

ASIAN MINING. (International Conference). Singapore. Organized by IMM in conjunction with the Asian Mining '81 International Exhibition. (Secretary, The Institute of Mining and Metallurgy, 44 Portland Place, London W1N 4BR, U.K. Tel. 01-58 3802; Telex: 261410)

November 24 - 26

COMPUTER METHODS IN RESOURCE ANALYSIS. (Geological Information Group Meeting). London, England. (M.F. Horder, IGS, 154 Clerkenwell Road, London EC1R 5DV, U.K.)

November 25 - 29

* **INTERNATIONAL WORKSHOP ON PACIFIC NEOGENE BIOSTRATIGRAPHY**, Osaka, Japan. (The Secretariat, IGCP Project 114, c/o Osaka Museum of Natural History, Nagai Park, Higashi-Sumiyoshi-ku, Osaka 546, Japan)

November 25 - December 6

* **PHOSPHORITES**, (IGCP Project 156, 4th International Field Workshop and Seminar), Delhi/Wdaipur, Rajasthan, India. (P.J. Cook, Research School of Earth Sciences, Institute of Advanced Studies, Australian National University, P.O. Box 4, Canberra, ACT 2601, Australia)

December 10 - 13

FACE ENDS TECHNOLOGY. (Symposium and Exhibition), Harrogate, England. (The Institute of Mining Engineers, Hobart House, Grosvenor Place, London SW1X 7AE, England)

December 18 - 19

OPHOLITES AND ACTUALISM: A COMPARATIVE ANALYSIS OF PETROLOGY, STRATIGRAPHY, TECTONIC EVOLUTION AND GEODYNAMIC SETTING. (Annual International Meeting, Working Group on Mediterranean Ophiolites), Florence, Italy. (L. Beccalupa, Istituto di Petrografia, Via Gramsci 9, 43100 Parma, Italy)

December 19 - 31

THE GALAPAGOS ISLANDS: EVOLUTION AND GEOLOGY. (A field trip designed for geologists, geological society of America and guests. Optional Andean and Amazon Basin geology extension offered at the end of the scheduled trip) Galapagos Islands. (G. Holbrook, Holbrook Travel Inc., 3520 N.W. 13th Street, Gainesville, Florida 32601, U.S.A. Tel. 904-377-7111)

1982

April 19 - 23

FIRST INTERNATIONAL MINE WATER CONGRESS. Budapest, Hungary. Languages: English, Hungarian, German, Russian, French or Spanish. (R. Fernandez Rubio, University of Granada, Faculty of Geosciences, Apartado 556, Granada, Spain)

May 3 - 7

12th CONGRESS OF COUNCIL OF MINING AND METALLURGICAL INSTITUTIONS, Johannesburg, South Africa. With pre- and post-Congress field excursions. (Congress Manager, P. O. Box 809, Johannesburg, Republic of South Africa 2000)

May 3 - 7

MARINE HYDRODYNAMICS OF THE EQUATORIAL OCEAN. (14th International Liège Colloquium on Ocean Hydrodynamics), Liège, Belgium. (J.C.J. Nihoul, Université de Liège, Mécanique des Fluides Géophysiques - Environnement, B6 - Sart Tilman, B-4000 Liège, Belgium)

May 11 - 14

ELSE AND EDITERRA, (Fifth General Assembly of Editerra), Pau, France. (N. Morris, ELSE/Editerra Secretariat, P.O. Box 33, Farnham, Surrey, GU10 3JX, U.K.)

May 12 - 14

9th INTERNATIONAL GEOCHEMICAL EXPLORATION SYMPOSIUM, Saskatoon, Canada. (V.J. Sopuck, Organizing Committee, 9th IGES, Box 432, Sub. P. O. 6, Saskatoon, Saskatchewan, Canada S7N 0W0)

May 17 - 19

GEOLOGICAL ASSOCIATION OF CANADA AND MINERALOGICAL ASSOCIATION OF CANADA. (Annual Meeting), Winnipeg, Manitoba. (W.C. Brisbin, Dept. of Earth Sciences, University of Manitoba, Winnipeg, Man., Canada R3T 2N2)

May 24 - 28

GEOLOGICAL INFORMATION. (Second International Conference) Golden, Colorado, U.S.A. (D.C.

Ward, University of Illinois at Urbana-Champaign, 223 Natural History Bldg., Urbana, Illinois 61801, U.S.A./A.P. Harvey, Dept. of Library Services, British Museum (Natural History), Cromwell Road, London SW7 5BD, U.K.)

May 26 - 28

ROCK MECHANICS RELATED TO CAVERNS AND PRESSURE SHAFTS. (Symposium), Aachen, F.R.G. Organized by the German Geotechnical Society; sponsored by the International Society for Rock Mechanics. Languages: German, English, and French. (W. Wittke, Institut für Grundbau, Bodenmechanik, Felsmechanik und Verkehrswasserbau, RWTH Aachen, Mies-van-der-Rohe-Strasse 1, D-5100 Aachen, F.R.G.)

June 1 - 3

* **8th AND FINAL INTERNATIONAL CONFERENCE OF MID-CRETACEOUS EVENTS**, (and meeting of the Project Working Group of MCE, in conjunction with the Second Symposium "Kreide"), Munich, F.R.G. (Institut für Paläontologie und historische Geologie, Kreide Symposium 1982, Richard-Wagner-Str. 10/11, D-8000 München, F.R.G.)

June 7 - 11

TUNNELLING '82, (International Symposium and Exhibition), Brighton, U.K. (Secretary, IMM, 44 Portland Place, London W1N 4BR, U.K.)

June 16 - July 1

AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS AND SOCIETY OF ECONOMIC PALEONTOLOGISTS AND MINERALOGISTS, (Annual Meeting), Calgary, Alberta. (K. Watson, AAPG, Box 979, Tulsa, Oklahoma 74101, U.S.A.)

June 28 - July 2

GEOCHRONOLOGY, COSMOCHRONOLOGY & ISOTOPE GEOLOGY. (Conference), Nikko National Park, Japan. (K. Shibata, Geological Survey of Japan, Higashi 1-1-3, Yatabe, Ibaraki 305, Japan)

July

* **LATERIZATION PROCESSES**, (2nd International Seminar, IGCP Project 129), Sao Paulo, Brazil. Originally scheduled for September 3 - 13, 1981; tentatively postponed to July 1982. (A. Carvalho, 2nd International Seminar on Laterization Processes, Instituto de Geociências - USP, Caixa Postal 20. 899, Sao Paulo, SP, Brazil)

August

MESOZOIC AND CENOZOIC GEOLOGY. (Symposium Beidaihe, Hebei Province or Tianjin City, China. Celebrating the 60th anniversary of the Geological Society of China. (Wang Zejiu, Secretary General, The Geological Society of China, Peking, China)

August 1 - 9

* **XIth INQUA CONGRESS.** Moscow, U.S.S.R. Fiftieth anniversary of founding of INQUA in Leningrad. Pre- and post-Congress excursions. (I.P. Kartashov, Secretary General, XI INQUA Congress, Geological Institute, U.S.S.R. Academy of Sciences, Pyzhevsky 7, Moscow 109017, U.S.S.R.)

August 1 - 9

* **SEA-LEVEL MOVEMENTS DURING THE LAST DEGLACIAL HEMICYCLE.** (IGCP Project 61, Final Working Group Meeting with 11th INQUA Congress), Moscow, U.S.S.R. (A.L. Bloom, Dept. of Geological Sciences, 221 Kimball Hall, Cornell University, Ithaca, New York 14853, U.S.A.)

August 2 - 13

* **JOINT OCEANIC ASSEMBLY**, Halifax, Canada. Sponsored by SCOR, CMG/IUGS, IABO, IAMAP, IAPSO, ECOR, CNC/SCOR with support from IOC/Unesco. (L. O'Quinn, Executive Secretary, JOA-82, 240 Sparks Street, 7th Floor West, Ottawa, Canada K1A 0E6)

August 20 - 20

ANTARCTIC EARTH SCIENCES, (Fourth International Symposium), Adelaide, Australia. (R.L. Oliver, Dept. of Geology & Mineralogy, The University of Adelaide, P.O. Box 498, G.P.O. Adelaide, South Australia 5001, Australia)

August 17 - 26

18th INTERNATIONAL ASTRONOMICAL UNION GENERAL ASSEMBLY, Patras, Greece. (Comité Local d'Organisation, 18 ème Assemblée Générale, UAI - 1982, Université de Patras, Patras, Grèce)

August 20 - 23

* **IV INTERNATIONAL SYMPOSIUM ON THE ORDOVICIAN SYSTEM**, Oslo, Norway. One pre-meeting excursion in Norway and three post-meeting excursions in Sweden. (D.L. Bruton,

Paleontologisk Museum, Sarsgate 1, Oslo 5, Norway)

August 22 - 28

* **CIRCUM-PACIFIC ENERGY AND MINERAL RESOURCES CONFERENCE**, Honolulu, Hawaii, U.S.A. (M.T. Halbouty, 5100 Westheimer Road, Houston, Texas 77056, U.S.A.)

August 22 - 28

* **INTERNATIONAL ASSOCIATION OF SEDIMENTOLOGISTS CONGRESS**, Hamilton, Canada. Languages: English and French. (G.V. Middleton, IAS Congress 1982, Dept. of Geology, McMaster University, Hamilton, Ontario, Canada L8S 4M1)

September 6 - 11

INTERNATIONAL MINING EXHIBITION '82, Birmingham, England. (R. Buckley, ABMEC Secretaries, Peat Marwick Mitchell & Co., P.O. Box 121, 201 Glossop Road, Sheffield S13 2HN, England)

September 6 - 12

* **INTERNATIONAL ASSOCIATION ON THE GENESIS OF ORE DEPOSITS.** (VI IAGOD Symposium), Tbilisi, U.S.S.R. Languages: Russian and English. (A.G. Tvalchrelidze, Caucasian Institute of Mineral Resources, 85 Paliashvili St., 380030 Tbilisi, U.S.S.R.)

October 17 - 20

ASSOCIATION OF EARTH SCIENCE EDITORS, (Annual Meeting), Williamsburg, Virginia, U.S.A. (Judy C. Holoviak, American Geophysical Union, 2000 Florida Avenue NW, Washington, D.C. 20009, U.S.A.)

October 17 - 22

V CONGRESO LATINOAMERICANO DE GEOLOGIA Buenos Aires, Argentina. (O.J. Ruiz Huidelero, Director, Servicio Geológico Nacional, Secretaría de Estado de Minería, Ministerio de Economía, Buenos Aires, Argentina)

October 18 - 21

GEOLOGICAL SOCIETY OF AMERICA, (Annual Meeting), New Orleans, U.S.A. (Sue S. Beggs, Geological Society of America, P.O. Box 9140, 3300 Penrose Place, Boulder, CO 80301, U.S.A.)

December 1 - 6

FOURTH INTERNATIONAL CONGRESS OF THE INTERNATIONAL ASSOCIATION OF ENGINEERING GEOLOGY, New Delhi, India. Pre- and post-Congress Excursions. Languages: English and French. (G. Pant, Associate Secretary, Geological Survey of India, 47 - 48, Pragati Bhawan, Nehru Place, New Delhi 110019, India)

1983

February 1 - 11

XV PACIFIC SCIENCE CONGRESS, Dunedin, New Zealand. (D.S. Coombs, Geology Dept., University of Otago, Box 56, Dunedin, New Zealand)

February 1 - 11

* **PACIFIC NEOGENE STRATIGRAPHY**, (3rd International Meeting), Dunedin, New Zealand. A symposium of the Solid Earth Sciences Section, XV Pacific Science Congress, sponsored by the Royal Society of New Zealand and IUGS. (A.R. Edwards, Secretary, N.Z. Geological Survey, P.O. Box 30 - 368, Lower Hutt, N.Z.)

July 18 - 22

INTERNATIONAL CONFERENCE ON PERMAFROST, Fairbanks, Alaska. (L. DeGoes, Polar Research Board, National Academy of Sciences, 2101 Constitution Ave. NW, Washington, D.C. 20418, U.S.A. Tel. 202-389-6071)

September

10TH INTERNATIONAL GEOCHEMICAL EXPLORATION SYMPOSIUM, Helsinki, Finland. Sponsored by the Association of Exploration Geochemistry. (L. K. Kauranne, Organizing Committee, 10th IGES, The Geological Survey of Finland, Kivimiehentie 1, 02150 Espoo 15, Finland)

September

INTERNATIONAL SYMPOSIUM ON ENGINEERING GEOLOGY AND UNDERGROUND CONSTRUCTION Lisbon, Portugal. (Sociedade Portuguesa de Geotecnica, c/o L.N.E.C., Av. Brasil, 101, 1799 Lisboa Codex, Portugal)

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