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).

1978

July 25 - 27

GEOTHERMAL RESOURCES COUNCIL, (Annual Meeting), Hilo, Hawaii. (Beverly A. Hall, Geothermal Resources Council, Box 1033, Davis, California 95616, U.S.A., Tel: 916-758-2360).

July 25 - August 8

REGIONAL CONFERENCE OF THE INTERNATIONAL GEOGRAPHICAL UNION, Lagos, Nigeria. Conference with field trips. Theme: Resources and Development in Africa. (P.O. Sada, Secretary-General, Regional Conference Organizing Committee, University of Benin, Benin City, Nigeria).

July 30 - August 2

SOIL CONSERVATION SOCIETY OF AMERICA, (Meeting), Denver, Colorado, U.S.A. (Larry D. Davis, Soil Conservation Society of America, 7515 Northeast Ankeny Rd., Ankeny, Iowa 50021, U.S.A.).

July 30 - August 5

SECOND CIRCUM-PACIFIC ENERGY AND MINERAL RESOURCES CONFERENCE, Honolulu, Hawaii, U.S.A. Conference with field trips. Organized by the Circum-Pacific Council for Energy and Mineral Resources, sponsored by the AAPG (1978 Circum-Pacific Conf., c/o AAPG, P.O. Box 979, Tulsa, Oklahoma 74101, U.S.A.).

August 3 - 12

ELEVENTH GENERAL ASSEMBLY AND INTERNATIONAL CONGRESS OF CRYSTALLOGRAPHY, Warsaw, Poland. (11th Intl. Congress of Crystallography, Polish Academy of Sciences, Institute of Physics, IF PAN SI-1, Al. Lotnikow 32/46, Pawilon 9, 02-668 Warsaw, Poland).

August 3 - 18

* ARCHEAN GEOCHEMISTRY, (Field trip), Superior Geotraverse region, Ontario, Canada and northern and central Minnesota, U.S.A. (A.M. Goodwin, Department of Geology, University of Toronto, Ontario, Canada).

August 7 - 12

ICE PROBLEMS, INTERNATIONAL SYMPOSIUM, University of Lulea, Sweden. Topics: ice in estuaries & harbors; thermal regime of ice-covered waters; mechanics of broken ice masses; ice forces on structures. (Organizing secretary, Town of Lulea Information Office, Fack, S-95185 Lulea, Sweden).

August 7 - 25

* FIFTH IAGOD SYMPOSIUM, Snowbird, Alta, Utah, U.S.A. Conference with field trips. (C.B. Sclar, General Secretary, 5th IAGOD Symp., Dept. of Geological Sciences, Williams Hall No. 31, Lehigh University, Bethlehem, Pa. 18015, U.S.A.).

August 14 - 16

PLATEAU UPLIFT: MODE AND MECHANISM, (Conference), Flagstaff, Arizona, U.S.A. (T. McGetchin, Lunar and Planetary Institute, 3303 NASA Road 1, Houston, Texas 77058, U.S.A.).

August 14 - 17

41ST ANNUAL MEETING OF THE METEORITICAL SOCIETY, Sudbury, Ont., Canada, with field trips. (M. Dence, Earth Physics Branch, Dept. of Energy, Mines and Resources, Ottawa, Canada K1A 0Y3).

August 14 - 20

* IGCP PROJECT 156: PHOSPHORITES PROTEROZOIC- CAMBRIAN, (International Field Workshop and Seminar) Mount Isa Area, Australia. (P.J. Cook, Research School of Earth Sciences, Australian National University, P.O. Box 4, Canberra, A.C.T. 2601, Australia).

August 16 - 19

GLACIER BEDS: THE ICE-ROCK INTERFACE, (Symposium), Ottawa, Canada. (C.S.L. Ommanney, Glaciology Division, Environment Canada, Ottawa, Canada K1A 0E7).

August 20 - 25

* SILICEOUS DEPOSITS, (GSA Penrose Conference and IGCP Project 115), Vancouver, B.C., Canada. (J.R. Hein, U.S. Geological Survey, 345 Middlefield Road, Menlo Park, Calif. 94025, U.S.A.).

August 20 - 25

* GEOCHRONOLOGY, COSMOCHRONOLOGY AND ISOTOPE GEOLOGY, 4TH INTERNATIONAL CONFERENCE, Snowmass, Colorado, U.S.A. Conference with field trips to Colorado, Yellowstone and California. (I. Friedman, U.S. Geological Survey, Mail Stop 963, Federal Center, Denver, Colorado, 80225, U.S.A.).

August 20 - 25

PERUVIAN GEOLOGICAL CONGRESS AND FIRST SOUTH AMERICAN ORE DEPOSITS SYMPOSIUM, Lima, Peru. (Victor Lay, IV Congreso Peruano de Geologia, Arnaldo Marquez 2277, Jesus Maria, Lima 11, Peru).

August 21 - 25

DYNAMICS OF LARGE ICE MASSES, (Symposium), Ottawa, Canada. (H. Richardson, International Glaciological Society, Lensfield Road, Cambridge CB2 1ER, England, U.K.).

August 28 - 30

CALEDONIDES OF THE BRITISH ISLES AND DEFORMATION AND METAMORPHISM IN THE CALEDONIDE OROGEN, Dublin, Ireland. Conference with field trips to the Caledonides of Ireland, Scotland, England, and Wales. (B. MacMahon, Silverdale Travel Ltd., 31 Exchequer St., Dublin 2, Ireland).

COMING EVENTS (Continued)

August 28 - September 1

GEOLOGY OF LATIN AMERICA, (Regional Meeting), Peru. (P. Barretto, Division of Nuclear Power and Reactors, International Atomic Energy Agency, Kartnerring 11, P.O. Box 590, 1011 Vienna, Austria).

August 28 - September 6

* EUROSIBERIAN SUB-COMMISSION OF THE INQUA HOLOCENE COMMISSION, (Field Meeting), Northern Finland. (Y. Vasari, Department of Botany, University of Oulu, SF-90100 Oulu 10, Finland).

August 29 - September 1

FIFTH MEETING OF THE EUROPEAN GEOPHYSICAL SOCIETY, JOINTLY WITH THE EUROPEAN SEISMOLOGICAL COMMISSION, Strasbourg, France. (The Programme Committee, Fifth EGS Meeting, Institut de Physique du Globe, Université Louis Pasteur, 5 rue René Descartes, 67084 Strasbourg Cedex, France).

August 29 - September 1

CONTROL OF CRUSTAL DYNAMICS IN EARTHQUAKE ZONES, Strasbourg, France. Session of the working group on Geodynamic Techniques of the European Seismological Commission as part of the Fifth EGS Meeting. (A. Vogel, Institut für Geophysikalische Wissenschaften der Freien Universität Berlin, Rheinbabenallee 49, D 1000 Berlin 33)

September 2 - 4

AMERICAN QUATERNARY ASSOCIATION, FIFTH BIENNIAL CONFERENCE, Edmonton, Alberta, Canada. Theme: The ice-free corridor and peopling the New World. (N.W. Rutter, Dept. of Geology, University of Alberta, Edmonton, Canada T6G 2E3).

September 3 - 8

* WORKING GROUP, CAMBRIAN-ORDOVICIAN BOUNDARY, (Field Excursion), Wales, U.K. (W.T. Dean, Chairman, IUGS Cambrian-Ordovician Boundary Working Group, Department of Geology, University College of Cardiff, P.O. Box 78, Cardiff CF1 1XL, U.K.).

September 4 - 8

* THIRD INTERNATIONAL CONGRESS OF THE INTERNATIONAL ASSOCIATION OF ENGINEERING GEOLOGY, Madrid, Spain. (A.G. Yague, Secretary 3rd Intl. Congress of IAEG, Servicio Geologico de Obras Publicas, Avenida de Portugal 81, Madrid 12, Spain).

September 4 - 8

FIFTH INTERNATIONAL SYMPOSIUM ON LIVING AND FOSSIL DIATOMS, Antwerp, Belgium. Conference with excursions. (J. Barron, U.S. Geological Survey, 345 Middlefield Road, Menlo Park, California 94025, U.S.A.).

September 4 - 10

* XITH GENERAL MEETING OF THE INTERNATIONAL MINERALOGICAL ASSOCIATION, Novosibirsk, U.S.S.R. Conference with excursions. Theme: High Pressure Minerals and Magmas from the Mantle. (N.V. Sobolev, Jr., Institute of Geology and Geophysics, 630090 Novosibirsk-90, U.S.S.R.).

September 5 - 8

3RD OFFSHORE NORTH SEA CONFERENCE AND EXHIBITION, Stavanger, Norway. (Offshore North Sea 1978, Technology Conference and Exhibition, Kronprinsensgt. 9, Oslo 2, Norway).

September 8 - 9

DEPOSITIONAL AND GROUNDWATER FLOW SYSTEMS IN THE EXPLORATION FOR URANIUM, Austin, Texas, U.S.A. (W.E. Galloway, Bureau of Economic Geology, University of Texas, Austin, Texas 78712, U.S.A.).

September 9 - 12

INTERNATIONAL SYMPOSIUM ON THE DEVONIAN SYSTEM, (organized by the Palaeontological Association) Bristol, U.K. Symposium with field trips. (The Secretary, P.A.D.S. 1978, Dept. of Geology, Queen's Building, University Walk, Bristol BS8 1TR, England, U.K.).

September 10 - 13

URANIUM - AN INTERNATIONAL ASSESSMENT, (Symposium), Las Vegas, U.S.A. (J.E. Jobst, EG and G Inc., Box 1912, Las Vegas, Nevada 89101, U.S.A.).

September 10 - 13

MEXICAN GEOLOGICAL SOCIETY, (Annual meeting), Mexico City. (Comite Organizador de la IV Convencion Geologica Nacional, Cipres No. 176, Mexico 4, D.F., Mexico).

September 10 - 16

GRANITE 1: THE ORIGIN AND EVOLUTION OF GRANITE MAGMAS, (GSA Penrose Conference), Huntington and Mammoth Lakes, California, U.S.A. (D.R. Wones, 4044 Derring Hall, Virginia Polytechnic Institute and State University, Department of Geol. Sciences, Blacksburg, Va 24061, U.S.A.).

September 10 - 17

JAHRESTAGUNG DER DEUTSCHEN MINERALOGISCHEN GESELLSCHAFT, Erlangen, B.R. Deutschland. (Mineralogisches Institut der Universität, Schlossgarten, 8520 Erlangen, F.R.G.).

September 10 - 17

* SYMPOSIUM ON THE GENESIS AND LITHOLOGY OF MORAINIC DEPOSITS IN AN ALPINE ENVIRONMENT, (by the INQUA Commission on Genesis and Lithology of Quaternary Deposits), Zurich, Switzerland. (Ch. Schluchter, INQUA-Symposium "Moranen" 1978, Institut für Grundbau und Bodenmechanik, ETH - Honggerberg, CH-8093 Zurich, Switzerland).

September 11 - 13

RESOURCES OF THE WIND RIVER BASIN, (organized by Wyoming Geological Association), Casper, Wyoming, U.S.A. Annual symposium and field trip. (Calvin D. Sands, Wyoming Geological Association, Box 545, Casper, Wy. 82602, U.S.A.).

September 11 - 15

INTERNATIONAL SYMPOSIUM ON MODELLING THE WATER QUALITY OF THE HYDROLOGICAL CYCLE, Baden, Austria. (International Institute for Applied Systems Analysis (IIASA), A-2361 Luxenburg, Austria).

COMING EVENTS (Continued)

September 11 - 18

- * 1978 INTERNATIONAL SYMPOSIUM ON COASTAL EVOLUTION IN THE QUATERNARY, (Brazilian National Working Group for IGCP Project 61) Sao Paulo, Brazil. Symposium and field excursion in co-operation with the Holocene, Shoreline and Neotectonic Commissions of INQUA, the Quaternary Commission of the Sociedade Brasileira de Geologia and the Institute of Geosciences, University of Sao Paulo. (K. Suguio, Instituto de Geociencias, Universidade de Sao Paulo, Caixa Postal 20899, 01000-Sao Paulo, SP, Brazil).

September 12 - 23

- * INTERNATIONAL SYMPOSIUM OF THE INTERNATIONAL COMMISSION OF HISTORY OF GEOLOGY (INHIGEO), Munster, Westf., Federal Republic of Germany. Theme: The regional influences on the origin and course of development of geological theories in the 18th and 19th century, with post-congress field meetings. (H. Holder, Geol. Palaontologisches Institut der Universitat, Gievenbecker Weg 61, 4400 Munster, F.R.G.).

September 18 - 22

INTERNATIONAL SYMPOSIUM ON WATER IN MINING AND UNDERGROUND WORKS, (SIAMOS), Granada, Spain. (R. Fernandez-Rubio, Director of the Working Group on Hydrogeology, Universidad de Granada, Apartado de Correos 556, Granada, Spain. Telephone: 958-271873).

September 18 - 22

INTERNATIONAL CONFERENCE ON EXPERIMENTAL STRESS ANALYSIS, Stuttgart, Germany. (Society for Experimental Stress Analysis, 21 Bridge Square, Westport, Conn. 06880, U.S.A.).

September 21 - 25

1978 EASTERN CANADA PALEONTOLOGY AND BIOSTRATIGRAPHY SEMINAR, Corner Brook, Newfoundland, Canada. (D. Skevington, Dept. of Geology, Memorial University, St. John's, Newfoundland, Canada A1B 3X5).

September 22 - 24

NEW YORK STATE GEOLOGICAL ASSOCIATION, (50th Annual Meeting with field excursions) New York, U.S.A. (D.F. Merriam, Dept. of Geology, Syracuse University, Syracuse, N.Y. 13210, U.S.A.).

September 24 - 27

SOIL MECHANICS AND FOUNDATION ENGINEERING, (Conference), Rio de Janeiro, Brazil. (M.L.G. Werneck, COPPE/UFRJ, P.O. 1191-ZC-OO, Rio de Janeiro, Brazil).

September 24 - 27

ASSOCIATION OF EARTH SCIENCE EDITORS, (Annual Meeting), Butte, Montana, U.S.A. (R.H. King, Montana Bureau of Mines and Geology, Butte, Montana 59701, U.S.A. Telephone: 406-792-8321).

September 24 - 28

MAGNETIC STRUCTURE OF OCEANIC BASEMENT, (GSA Penrose Conference), University of Cambridge, U.K. Sessions: DSDP drilling results; ocean-crust formation; magnetic-anomaly inversion models; ophiolites; crustal structure & evolution. Optional field trip to the fens of Cambridgeshire & Norfolk. (H.P. Johnson, Department of

Oceanography, University of Washington, Seattle, Wa. 98195, U.S.A.).

September 24 - October 1

EUROPEAN PALAEOONTOLOGICAL CONVENTION-1978, (Joint meeting of the Palaontologische Gesellschaft, F.R.G. and the Palaeontological Association, U.K., with excursions) Maastricht, Netherlands. Theme: Evolutionary Changes in Fossilization Potential. (A. Seilacher, Geologisches Institut, Sigwartstrasse 10, Tubingen, Federal Republic of Germany).

September 25 - 29

MODELING SNOW-COVER RUNOFF, (Meeting by the National Weather Service, Corps of Engineers, American Geophysical Union Section of Hydrology & American Meteorological Society), Hannover, N.H., U.S.A. (American Geophysical Union, 1909 K St. NW, Washington, D.C. 20006, U.S.A.).

September 27 - 29

ROCK MECHANICS RELATED TO DAM FOUNDATIONS (Symposium), Rio de Janeiro, Brazil. (M.A. Kanji, C. Postal 7141, Sao Paulo, SP, Brazil).

September

2ND SYMPOSIUM ON THE GEOLOGY OF LIBYA, (sponsored by the Geology Dept., Fac. of Science, Univ. of Al-Fateh, Tripoli) Tripoli, Libya. (Dr. M.H. Naggar, General Secretary, Second Symposium on the Geology of Libya, Geology Dept., Faculty of Science, Univ. of Al-Fateh, P.O. Box 656, Tripoli, Libyan Arab Socialist People's Jamahiria).

October 2 - 5

INTERNATIONAL SYMPOSIUM ON APPLICATIONS OF GEODESY TO GEODYNAMICS, Columbus, Ohio, U.S.A. (I.A. Mueller, Dept. of Geodetic Science, Ohio State University, 1958 Nell Ave., Columbus, Ohio 43210, U.S.A.).

October 2 - 9

GEOLOGY AND PALEONTOLOGY OF SOUTHEAST ASIA (Symposium), Ibaraki, Japan. (H. Igo, GPSEA Symposium, Institute of Geoscience, University of Tsukuba, Ibaraki, 300-31, Japan).

October 2 - 11

- * INTERACTION OF THE ASTHENOSPHERE AND LITHOSPHERE AND ITS ROLE IN TECTONIC PROCESSES, (Symposium along with Bureau and Commission meetings of Inter-Union Commission on Geodynamics), Leningrad, U.S.S.R. (Topics will include: Alpine belts of Europe, geological and geophysical studies of inland seas, geological and geophysical studies in the Pamirs-Himalayas programme, and velocity, attenuation and other geophysical properties of the upper mantle. (Contact either: Organizing Committee, Inter-Union Commission on Geodynamics Session, Soviet Geophysical Committee, Molodezhnaya 3, Moscow GSP-1, USSR or R.D. Russell, Secretary General, I.C.G., Dept. of Geophysics and Astronomy, University of British Columbia, Vancouver, B.C., Canada V6T 1W5).

October 5 - 7

EARTHQUAKE ENGINEERING, (Symposium), Roorkee, India. (6th SEE, School of Research & Training in Earthquake Engineering, University of Roorkee, Roorkee-24667, U.P., India).

COMING EVENTS (Continued)

October 5 - 12

- * IGCP PROJECT 60: CORRELATION OF CALEDONIAN STRATABOUND SULPHIDES, (International Working Group meeting and field excursion to central Appalachians), Washington, D.C., U.S.A. (J.A. Gair, U. S. Geological Survey, Reston, Virginia 22092, U.S.A.).

October 5 - 19

PLIOCENE/PLEISTOCENE BOUNDARY IN NORTH AMERICA, (International field conference), California, Nebraska, with optional extensions to Arizona, October 4, and Kansas and Texas, October 20-22. (W.A. Berggren, Department of Geology and Geophysics, Woods Hole Oceanographic Institute, Woods Hole, Mass. 02543, U.S.A.).

October 8 - 11

CLAY MINERALS CONFERENCE, Bloomington, Indiana. (Haydn Murray, Department of Geology, Indiana University, Bloomington, Ind. 47401, U.S.A.).

October 8 - 17

- * RIFT ZONES OF THE EARTH: TECTONICS AND MAGMATISM OF THE RIO GRANDE RIFT, (Symposium by Working Group 4, I.C.G. and U.S. Natl. Committee for Geodynamics, with field trip) Santa Fe, N.M., U.S.A. (C. Cuntz, Los Alamos Scientific Laboratory, ISD-2, MS355 Box 1663, Los Alamos, N.M. 87545, U.S.A.).

October 9 - 12

BAUXITES, ALUMINA AND ALUMINIUM, (International congress), Athens, Greece. (S.S. Augustithis, Department of Mineralogy-Petrography-Geology, National Technical University, Box 1006, Athens, Greece).

October 9 - 12

INTERNATIONAL MINING SHOW, Las Vegas, Nevada, U.S.A. (American Mining Congress, 1100 Ring Building, Washington, D.C. 20036, U.S.A.).

October 9 - 13

FIRST INTERNATIONAL CONGRESS ON BENTONITES, Sassari, Sardinia, Italy. (Istituto di Mineralogia e Geologia, Facoltà di Agraria, Università di Sassari, 07100 Sassari, Italy).

October 9 - 14

- * GEODYNAMIC AND BIODYNAMIC EFFECTS OF THE MESSINIAN SALINITY CRISIS IN THE MEDITERRANEAN, (International symposium), Rome, Italy. Meeting, October 9-11, co-sponsored by IGCP Project 96 - Messinian Correlation - and by Working Group 3, Inter-Union Commission on Geodynamics with three day post-symposium excursion to Tuscany, October 12-14. (Maria Bianca Cita, Accademia Nazionale dei Lincei, via della Lungara 10, Rome, Italy).

October 10 - 12

INTERNATIONAL SYMPOSIUM ON INTERACTION OF MARINE GEODOSY AND OCEAN DYNAMICS, Miami, Florida, U.S.A. (G.A. Maul, NOAA-AOML, 15 Rickenbacker Causeway, Miami, Florida 33149, U.S.A.).

October 11 - 13

GULF COAST ASSOCIATION OF GEOLOGICAL SOCIETIES (AAPG) & GULF COAST SECTION (SEPM), (Annual meeting), New Orleans. (J. Braunstein, Shell Oil Co., Box 60775, New Orleans 70160, U.S.A.).

October 11 - 13

HAUPTVERSAMMLUNG DER DEUTSCHEN GEOLOGISCHEN GESELLSCHAFT, Aachen, B.R. Deutschland. (Geologisches Institut der RWTH, Wullnerstrasse 2, 5100 Aachen, F.R.G.).

October 11 - 22

- * NICKEL SULFIDE DEPOSITS, (by Mineralogical Association of Canada), Toronto, Canada. Symposium, October 21-22, preceded by field trip to Abitibi, Sudbury, Ontario and Thompson, Manitoba. Registration deadline - June, 1978. (A.J. Naldrett, Department of Geology, University of Toronto, Toronto, Canada M5S 1A1).

October 15 - 17

EASTERN SECTION AAPG, (Annual Meeting), Cleveland, Ohio, U.S.A. (J.A. Noel, Dept. of Geology, Wright State University, Dayton, Ohio 45431, U.S.A.).

October 16 - 21

ASSOCIATION OF ENGINEERING GEOLOGISTS, (Annual Meeting), Hershey, Pa., U.S.A. (D.R. Thompson, 1007 Drexel Hills Blvd., New Cumberland, Pa. 17070, U.S.A.).

October 16 - 21

GEOPHYSICS AND THE STRUCTURE OF FOLDED BELTS, (GSA Penrose Conference) Locarno, Switzerland. (B.C. Burchfiel, Massachusetts Institute of Technology, 54-1010, Cambridge 02139, U.S.A.).

October 19 - 20

DEEP-OCEAN MINING, San Diego, California, U.S.A. By Sea Grant Advisory Services, University of Alaska, University of Wisconsin, University of California, San Diego and AIME. (G.D. Hedden, Sea Grant Advisory Services, University of Wisconsin, 1815 University Avenue, Madison, Wisconsin 53706, U.S.A.).

October 20 - 21

- * '78 PREDICTIVE GEOLOGY AND SIMULATION, 7th Annual Geochautauqua, Syracuse, New York, U.S.A. Sessions on boundary-layer interactions, global models, and mineral resource evaluation. Sponsored by Syracuse University, University of Miami, and the International Association for Mathematical Geology. (John M. Cubitt, Department of Geology, Syracuse University, Syracuse, N.Y. 13210, U.S.A. or J. R. Southam, Rosentiel Institute of Marine Sciences, University of Miami, Coral Gables, Florida 33124, U.S.A.)

October 23 - 26

COMBINED ANNUAL MEETINGS OF: GEOLOGICAL ASSOCIATION OF CANADA AND MINERALOGICAL ASSOCIATION OF CANADA, JOINTLY WITH GEOLOGICAL SOCIETY OF AMERICA AND ASSOCIATED SOCIETIES, Toronto, Canada. Symposia and other scientific sessions and exhibits with field excursions both before and following the meetings. (Paul M. Kavanagh, Box 4170, Postal Station 'A', Toronto, Canada M5W 1T2; Fred Handy, GSA, 3300 Penrose Place, Boulder, Colo. 80301, U.S.A.).

October 24 - 29

EUROPEAN OFFSHORE PETROLEUM CONFERENCE AND EXHIBITION, London, U.K. (The Institute of Petroleum, 61, New Cavendish Street, London W1M 8AR, England, U.K.).

COMING EVENTS (Continued)

October 27 - 29

URANIUM DEPOSITS, THEIR MINERALOGY AND ORIGIN, (Short Course), Toronto, Ontario. Short course by the Mineralogical Association of Canada, Geological Association of Canada. The Conference fee is \$250 (\$150 for students). (Professor M.M. Kimberley, Room 3002, Erindale College, University of Toronto, Mississauga, Ont., Canada L5L 1C6).

October 29 - November 1

AMINO ACID BIOGEOCHEMISTRY, Washington, D.C. U.S.A. (P.E. Hare, Geophysical Laboratory, 2801 Upton St., N.W., Washington, D.C. 20008, U.S.A.).

October 29 - November 2

SOCIETY OF EXPLORATION GEOPHYSICISTS, (Annual meeting), San Francisco, U.S.A. (Howard Breck, SEG Headquarters, Box 3098, Tulsa 74101, U.S.A.).

November 1 - 2

THE EVIDENCE FOR CHEMICAL HETEROGENEITY IN THE EARTH'S MANTLE, (Meeting by the Royal Society), London, U.K. (The Executive Secretary, The Royal Society, 6 Carlton House Terrace, London SW1Y 5AG, U.K.).

November 5 - 10

URANIUM MINING TECHNOLOGY, (Conference), Reno, Nevada. (Jan Dunbar, Conferences & Institutes, University of Nevada, Reno, 89557, U.S.A. Tel: 702-784-4064).

November 13 - 17

HEAT TRANSPORT PROCESSES IN THE EARTH, (GSA Penrose Conference), Los Alamos, New Mexico, U.S.A. (J.W. Mercer, U.S. Geological Survey, Mail Stop 431, Reston, Virginia 22092, U.S.A.).

November 14 - 17

THIRD REGIONAL CONFERENCE ON GEOLOGY AND MINERAL RESOURCES OF SOUTHEAST ASIA, Bangkok, Thailand. Organized by Geological Society of Thailand, Asian Institute of Technology, Department of Mineral Resources, Thailand, with excursions after the congress. A 5-day pre-conference short course on Computer Applications in Geosciences is planned. (Prinya Nualaya, Asian Institute of Technology, P.O. Box 2754, Bangkok, Thailand / Sermakdi Kulvanich, Geological Society of Thailand, P.O. Box 4-169, Bangkok 4, Thailand).

December 4 - 8

AMERICAN GEOPHYSICAL UNION, (Annual Fall Meeting), San Francisco, California. (American Geophysical Union, 1909 K St. NW, Washington, D.C. 20006, U.S.A.).

December 28 - 31

FIFTH IRAQI GEOLOGICAL CONGRESS, Baghdad, Iraq. (Dr. I.I.M. Kassab, D.G. of Geological Survey and Mineral Exploration, P.O. Box 986, Alwiyah, Baghdad, Iraq).

1979

January 3 - 8

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, (Annual meeting), Houston, Texas, U.S.A. (AAAS, 1776 Massachusetts Avenue, N.W., Washington, D.C. 20036, U.S.A.).

January 22 - 26

GEOLOGY AND MINING, (AN-ZAAS Congress), Auckland, New Zealand. (K.B. Sporli, Department of Geology, University of Auckland, Private Bag, Auckland).

March 3

U.S. GEOLOGICAL SURVEY CENTENNIAL DAY, (Open House), Reston, Virginia; Rolla, Missouri; Denver, Colorado; Menlo Park, California. (Clifford Nelson, Mail Stop 950, U.S. Geological Survey, Reston, Virginia 22092, U.S.A.).

March 12 - 16

TUNNELLING '79, INTERNATIONAL SYMPOSIUM AND EXHIBITION, London, U.K. (The Secretary, Institution of Mining and Metallurgy, 44 Portland Place, London W1N 4BR, U.K.).

March 19 - 23

LUNAR AND PLANETARY SCIENCE CONFERENCE, Houston, Texas, U.S.A. (Symposiums Office, Lunar and Planetary Institute, 3303 NASA Road 1, Houston, Texas, U.S.A.).

March 25 - 29

MIDDLE EAST OIL EXHIBITION & CONFERENCE, (by the Bahrain Ministry of Development & Industry), Bahrain. (Doug Ducate, Society of Petroleum Engineers, 6200 North Central Expressway, Dallas, Texas, 75206, U.S.A.).

April 1 - 4

AAPG-SEPM ANNUAL MEETING, Houston, Texas, U.S.A. (Kathy Watson, AAPG, Box 979, Tulsa, Oklahoma 74101, U.S.A.).

April 1 - 4

COMPUTER APPLICATIONS TO GEOLOGY, (by AAPG Committee on Computer Applications), AAPG-SEPM Annual Meeting, Houston, Texas. (M. McElroy, Phillips Petroleum Company, 252 Frank Phillips Building, Bartlesville, Oklahoma 74004, U.S.A.).

April 2 - 6

THIRD INTERNATIONAL CONFERENCE ON NUMERICAL METHODS IN GEOMECHANICS, Aachen, F.R.G. (W.White, Chairman, 3rd International Conference on Numerical Methods in Geomechanics, Mies-van-der-Rohe Str. 1, D5100 Aachen, F.R.G.).

April 2 - 6

INTERNATIONAL SYMPOSIUM ON EARTHQUAKE PREDICTION, (Unesco Symposium), Paris, France. (The Director, Division of Earth Sciences, UNESCO, Place de Fontenoy, 75700 Paris, France).

April 2 - 7

INTERNATIONAL OPHIOLITE SYMPOSIUM, (sponsored by Republic of Cyprus & IAVCEI, with field excursion) Nicosia, Cyprus. (Secretary, International Ophiolite Symposium, Geological Survey Department, Nicosia, Cyprus).

April 9 - 11

THRUST AND NAPPE TECTONICS, Imperial College, London, U.K. Emphasis will be on genesis, analysis and interpretation of thrust-nappe tectonics with regional overviews from the Alps, Himalayas, the Caledonides, Rocky Mountains and Appalachians. (K. R. McClay, Department of Geology, Imperial College, London SW7 2BP, U.K.).

COMING EVENTS (Continued)

Spring

INTERNATIONAL SYMPOSIUM ON COASTAL DYNAMICS OF INLAND SEAS, LAKES AND OCEANS, Burlington, Ontario, Canada. (A.R. LeFeuvre, Director, Canada Centre for Inland Waters, 867 Lakeshore Road, Burlington, Ontario, Canada L7R 4A6).

May 15 - 17

INTERNATIONAL CONFERENCE ON SHEAR ZONES IN ROCKS, (sponsored by Dept. of Petrology, University of Barcelona) Barcelona, Spain. Two short excursions will follow the meeting. (J. Carreras, Dpto. Petrologia (Fac. Geologia), Universidad de Barcelona, Avda. José Antonio 585, Barcelona 7, Spain).

May 21 - 26

9TH INTERNATIONAL CONGRESS OF CARBONIFEROUS STRATIGRAPHY & GEOLOGY, Urbana, Ill., U.S.A. Technical sessions in Urbana, Illinois with field trips and plenary session preceding and field trips following. Third circular available 1 Sept., 1978. (Secretary General, IXICC 1979, Museum of Natural History, Washington, D.C. 20560, U.S.A. Telephone: (202) 343-3232).

May 14 - 18

INTERNATIONAL HYDROGRAPHIC TECHNICAL CONFERENCE, (by the Canadian Hydrographic Service, Fédération Internationale des Géomètres & The Canadian Institute of Surveying) Ottawa, Canada. Theme: Development of ocean resources. (The Organizing Committee, International Hydrographic Technical Conference, Room 209, 615 Booth St., Ottawa, Canada K1A 0E6).

May 21 - 26

* EARLY PRECAMBRIAN VOLCANOLOGY AND SEDIMENTOLOGY IN LIGHT OF THE RECENT, (Geological Association of Canada and IGCP Project 160), Québec City, Canada. Symposium and field excursions. (E. Dimroth, Sciences de la Terre, Université du Québec à Chicoutimi, Chicoutimi, P.Q., Canada G7H 2B1)

May 29 - June 9

XXIIND COSPAR PLENARY MEETING AND ASSOCIATED SYMPOSIUM, Bangalore, India. (COSPAR Secretariat, 51 Boulevard de Montmorency, 75016 Paris, France).

June 3 - 6

ROCKY MOUNTAIN SECTION, AAPG-SEPM, Casper, Wyoming. (Willard J. Guy, Union Oil Co. of California, Box 2620, Casper, Wy. 82601, U.S.A.).

June 4 - 6

CANADIAN GEOPHYSICAL UNION, (Annual meeting), Fredericton, N.B., Canada. (K.P. Schwarz, Dept. of Engineering, University of New Brunswick, Fredericton, N.B., Canada E3B 5A3).

June 10 - 13

EXPLORATION UPDATE '79, Calgary, Canada. Theme of meeting: Success of the 70's - energy for the 80's. (P.N. Jordan, Amoco Canada Petroleum Co. Ltd., 444 7th Avenue, S.W., Calgary, Alberta, Canada T2P 0X2).

June 17 - 22

INTERNATIONAL WORKSHOP ON THE GEOLOGIC HISTORY OF NORTH ATLANTIC BORDERLANDS, (Canadian Society of Petroleum Geologists

in co-operation with the Petroleum Exploration Society of Great Britain), St. John's, Nfld., Canada. Study area will be 10 degrees South to 90 degrees North. (Alasdair Fergusson, Chairman, CSPG North Atlantic Project, c/o PanCanadian Petroleum Company, P.O. Box 2850, Calgary, Alberta, Canada T2P 2S5).

June 18 - 20

RAPID EXCAVATION AND TUNNELING CONFERENCE, Salt Lake City, U.S.A. (Society of Mining Engineers, Box 8800, Salt Lake City, Utah 84108, U.S.A.).

June 18 - 22

GRANITE II: HIGH LEVEL BATHOLITHS, (GSA Penrose conference), Butte, Montana, U.S.A. (C. J. Vitaliano, Department of Geology, Indiana University, Bloomington, Indiana 47401, U.S.A.).

June 20 - 30

* TRIASSIC STRATIGRAPHY IN THE SOUTHERN ALPS, Riccardo Assereto and Giulio Pisa field symposium in the Lombardian/Venetian Prealps and Dolomites. 8 days field excursion and 2 days meetings including topics of IGCP 4. (Secretary, Riccardo Assereto and Giulio Pisa Field Symposium, Dept. of Geology and Paleontology, P. le Gorini 15, 20133 Milan, Italy).

July 7 - 15

FOURTH LATIN AMERICAN GEOLOGICAL CONGRESS, (Congress and field trips), Trinidad and Tobago, West Indies. Deadline to avoid penalty for registration - 1 July, 1978. (Fourth Latin American Geological Congress, P.O. Box 771, Port of Spain, Republic of Trinidad and Tobago).

July 9 - 15

METHODS OF ESTIMATING GROUNDWATER RESOURCES (Symposium with field trips), Vilnius, USSR. Sponsored by the National Committee of Geologists of the USSR, Academy of Sciences of the USSR, USSR Ministry of Geology and the Department of Ministers of the Lithuanian SSR, in co-operation with the International Association of Hydrogeologists. (P.E. LaMoreaux, Box 2310, Tuscaloosa, Alabama 35401, U.S.A.).

August 22 - 24

EARTHQUAKE ENGINEERING, (Meeting), Stanford, California. (Susan Newman, Earthquake Engineering Institute, 424 40th St., Oakland, Calif. 94609, U.S.A.).

August

14TH PACIFIC SCIENCE CONGRESS, (organized by the Pacific Science Assn.) Novosibirsk, U.S.S.R. (Pacific Science Association, P.O. Box 6037, Honolulu, Hawaii, 96818, U.S.A.).

August 27 - 29

PROSPECTING IN AREAS OF GLACIATED TERRAIN 1979, (Conference and field excursions), Dublin, Ireland. (The Secretary, The Institution of Mining and Metallurgy, 44 Portland Place, London W1N 4BR, U.K.).

August 27 - 30

NORWEGIAN SEA SYMPOSIUM (NSS-79), Tromsø, Norway. Continental margins and adjacent sedimentary basins. (Norwegian Petroleum Society NPF, Kronprins gt. 9, Oslo 2, Norway. Tel: 20 70 25).

COMING EVENTS (Continued)

August - September

- * IGCP PROJECT 60: CORRELATION OF CALEDONIAN SULPHIDES, Roros, Norway. Symposium on the geology of stratabound sulphide deposits in the Caledonian-Appalachian belt with field excursions to the central Scandinavian Caledonides. (F.M. Vokes, Geologisk Institutt, 7034 Trondheim-N.T.H., Norway).

August - September

- UN CONFERENCE ON SCIENCE AND TECHNOLOGY FOR DEVELOPMENT, Vienna, Austria. (UNCSTD Secretariat, Room DCII/48, United Nations, New York, N.Y. 10017, U.S.A.).

September

- 4th INTERNATIONAL CONFERENCE ON ASBESTOS, Turin, Italy. (Conference Secretary, Vanni Badino, Istituto di Arte Mineraria Politecnico, Corso Duca degli Abruzzi 24, 10129 Torino, Italy).

September 18 - 24

- * CRETACEOUS-TERTIARY BOUNDARY EVENTS, (Symposium with field excursions), Copenhagen, Denmark. Organized by the IUGS Subcommission on Cretaceous Stratigraphy and the Working Group on Cretaceous-Paleogene Boundary (IUGS Commission on Stratigraphy) and the Geological Institutes of the University of Copenhagen. Topics are: Recent development in all aspects of the Cretaceous-Tertiary boundary and sections. Cost approx. \$40.00. Potential participants should reply before 1 Oct., 1978 to receive second circular. (T. Birkelund, Institut fur Historisk Geologi, Oster Voldgade 5-7, D-1350 Copenhagen K, Denmark).

September 27 - October 2

- VIIITH INTERNATIONAL CONGRESS ON MEDITERRANEAN NEOGENE, Athens, Greece. Conference with excursions before and after to Crete, Attica, Megara-Peloponnesis-Zakynthos, Macedonia. (M. Dermitzakis, Gen. Secretary Organ. Committee, Dept. of Geology and Paleontology, Athens University, 46 Akadimias Str., Athens 143, Greece).

September 3 - 6

- SYMPOSIUM ON ENGINEERING GEOLOGY MAPPING, Newcastle upon Tyne, U.K. (W.R. Dearman, Engineering Geology Unit, Drummond Building, The University of Newcastle upon Tyne, Newcastle upon Tyne NE1 7RU, England, U.K.).

September 3 - 8

- SIXTH EUROPEAN COLLOQUIUM ON GEOCHRONOLOGY, COSMOCHRONOLOGY AND ISOTOPE GEOLOGY (ECOG VI), Lillehammer, Norway. Meeting followed by excursion on September 7 and 8. (K.S. Heier, ECOG VI, Norges geologiske undersokelse, P.O. Box 3006, 7001 Trondheim, Norway).

September

- ENGINEERING-GEOLOGICAL PROBLEMS IN DAM CONSTRUCTION, Tbilisi, U.S.S.R. Symposium with pre- and post-symposium field trips. (Prof. Josif M. Buachidze, Chairman of Organizing Committee, Department of Hydrology and Engineering Geology of the Academy of Sciences of the Georgian Soviet Socialist Republic, Rustaveli Avenue 52, Tbilisi 380008, U.S.S.R.).

October 16 - 20

- ASSOCIATION OF ENGINEERING GEOLOGISTS, (Annual Meeting), Chicago, Illinois. (Abe Dolgoff, Sargent & Lundy Inc., 55 East Monroe St., Chicago, Ill. 60603, U.S.A. Telephone: 312-269-2000).

October 21 - 14

- ASSOCIATION OF EARTH SCIENCE EDITORS, (Annual meeting), Tulsa, Oklahoma, U.S.A. (J.W. Henry, Society of Exploration Geophysicists, Box 3098, Tulsa, Oklahoma 74101, U.S.A.).

October 31 - November 3

- 12th ANNUAL MEETING OF THE AMERICAN ASSOCIATION OF STRATIGRAPHIC PALYNOLOGISTS, Dallas, Texas. Includes one-day special symposium: 'Kerogen Analysis - Visual and Geochemical Relationships'. (H.M. Simpson, Geological Science Group, Atlantic Richfield Company, Executive Plaza, Post Office Box 2819, Dallas, Texas 75221, U.S.A. Telephone: 214-651-5151).

November 4 - 8

- INTERNATIONAL MINE VENTILATION CONGRESS, Reno, Nevada. (Jan Dunbar, Conferences & Institutes, University of Nevada, Reno, 89557, U.S.A. Telephone: 702-784-4046).

November 5 - 7

- GEOLOGICAL SOCIETY OF AMERICA AND ASSOCIATED SOCIETIES, (Annual meetings), San Diego, California, U.S.A. (Fred Handy, GSA, 3300 Penrose Place, Boulder, Colo. 80301, U.S.A.).

December 2 - 15

- GENERAL ASSEMBLY IUGG-IAHS, Canberra Australia. (Secretariat IAHS/IUGG, 19 rue Eugène-Carrière, 75018 Paris, France).

December 2 - 15

- * INTER-UNION COMMISSION ON GEODYNAMICS, (Symposia and meetings of Bureau and Commission), Canberra, Australia. (R.D. Russell, Secretary General, ICG, Dept. of Geophysics and Astronomy, University of British Columbia, Vancouver, B.C., Canada V6T 1W5).

December 3 - 7

- AMERICAN GEOPHYSICAL UNION (Annual fall meeting), San Francisco, U.S.A. (American Geophysical Union, 1909 K St., N.W., Washington, D.C. 20006, U.S.A.).

1980

February 11 - 16

- * FIFTH GONDWANA SYMPOSIUM (Sponsored by IUGS), Wellington, New Zealand. Symposium and field trips organized by Royal Society of New Zealand and by Victoria University, Wellington. (Dr. R.E. Wass, Department of Geology, University of Sydney, Australia 2600).

May

- * INTERNATIONAL ARCHEAN SYMPOSIUM, Perth, Australia. Sponsored by IGCP Archean Geochemistry project and Geol. Society of Australia. (J.A. Hallberg, Archean Symposium, CSIRO, Division of Mineralogy, Floreat Park, Western Australia, 6014).

COMING EVENTS (Continued)

June 29 - July 6

FIFTH INTERNATIONAL PALYNOLOGICAL CONFERENCE, Cambridge, England, U.K.
Conference with field excursions. (N.F. Hughes, Sedgwick Museum, Cambridge, U.K.).

July 7 - 17

* **26TH INTERNATIONAL GEOLOGICAL CONGRESS**, Paris, France. (Paul Sangnier, Secrétaire Général du 26ème C.G.I., Maison de la Géologie, 77-79 rue Claude-Bernard, 75005 Paris, France).

July 24 - 31

* **EVOLUTION OF THE SOUTH ATLANTIC** (sponsored by SCOR and the Commission on Marine Geology, IUGS), Paris, France.

September 22 - 26

THIRD INTERNATIONAL CONGRESS ON THE HISTORY OF OCEANOGRAPHY, Woods Hole, Massachusetts, U.S.A. Celebration of 50th Anniversary of Woods Hole Oceanographic Institution. (D. Merriman, 298 Sperry Road, Bethany, Connecticut 06525, U.S.A.)

1981

September 1 - 6

* **SECOND INTERNATIONAL CONFERENCE, GRAPTOLITE WORKING GROUP OF THE INTERNATIONAL PALAEONTOLOGICAL ASSOCIATION**, Cambridge, U.K. Conference followed by field trips to Aberystwyth and Rhedol Gorge, Wales. (P.R. Crowther, Department of Geology, University of Cambridge, Sedgwick Museum, Downing Street, Cambridge CB2 3EQ, U.K.).

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