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 the Lithosphere (ICL).
- Signifies first announcement of event.

1982

- January 26 - 29, 1982
 • **NASA GEODYNAMICS PROGRAM**, (4th Annual Conference), Greenbelt, Maryland, U.S.A. (P. Taylor, Goddard Space Flight Center, Building 8 Auditorium, Greenbelt, Maryland 20771, U.S.A.)
- January 27 - 29, 1982
 * **MANAGEMENT, ANALYSIS AND DISPLAY OF GEOSCIENCE DATA**, (1st Annual Conference), Golden, Colorado, U.S.A. (R.B. McCammon, U.S. Geological Survey, National Center 920, Reston, Virginia 22092, U.S.A.)
- February 1 - 2, 1982
WORLD OIL MINING, (1st Symposium), London, U.K. (The Institution of Mining and Metallurgy, 44 Portland Place, London W1N 4BR, U.K.)
- February 1 - 5, 1982
PRINCIPLES OF DATA PROCESSING FOR EARTH SCIENTISTS, (Introductory course for foreign nationals), Reston, Virginia, U.S.A. (U.S. Geological Survey, 917 National Center, Training Section, Reston, Virginia 22092, U.S.A.)
- February 1 - 6, 1982
 * **STRATIGRAPHY QUO VADIS?** (IUGS Symposium and Executive Committee Meeting), Bonn, F.R.G. (E. Seibold, Deutsche Forschungsgemeinschaft, Kennedy Allee 40, 5300 Bonn-2, F.R.G.)
- February 1 - 10, 1982
 * **PAN AFRICAN CRUSTAL EVOLUTION IN ARABIA AND NORTHEAST AFRICA**, (IGCP Project 164), Jeddah, Saudi Arabia. Post-meeting field excursions. Languages: English, with Arabic abstracts in the published proceedings. (A.M. Al-Shanti, Faculty of Earth Sciences, King Abdulaziz University, P.O. Box 1744, Jeddah, Saudi Arabia)
- February 7 - 17, 1982
HEAVY CRUDE AND TAR SANDS, (2nd International Conference), Caracas, Venezuela. Participation by invitation only. (UNITAR, 801 United Nations Plaza, Room 316, New York, N.Y. 10017, U.S.A.)
- February 8 - 16, 1982
 • **12th INTERNATIONAL SOCIETY OF SOIL SCIENCE CONGRESS**, New Delhi, India. (T.D. Biswas, Organizing Secretary, 12th ISSS Div. of Soil Science & Agricultural Chemistry, Indian Agricultural Research Institute, New Delhi 11012, India)
- February 16 - 18, 1982
ENERGY TECHNOLOGY CONFERENCE AND EXPOSITION, (9th Annual), Washington, D.C., U.S.A. (ET '82 Program Chairman, c/o Government Institutes, Inc., P.O. Box 1096, Rockville, Maryland 20850, U.S.A.)
- February 16 - 19, 1982
AMERICAN GEOPHYSICAL UNION (OCEANOGRAPHY SECTION) AND AMERICAN SOCIETY OF LIMNOLOGY AND OCEANOGRAPHY, (Joint Meeting), San Antonio, Texas, U.S.A. (W.D. Nowlin Jr., Department of Oceanography, Texas A & M University, College Station, Texas 77843, U.S.A.)
- February 18 - 19, 1982
 • **SOCIETY OF INDEPENDENT PROFESSIONAL EARTH SCIENTISTS**, (19th Annual Meeting), Midland, Texas, U.S.A. (E. Gaertner, 930 Western United Building, Midland, Texas 79701, U.S.A.)
- February 25 - 27, 1982
TRIASSIC GLOBAL GEOLOGY, (72nd Annual Meeting), Würzburg, F.R.G. (W.A. Schnitzer, Institut für Geologie, Pleicherwall 1, D-8700 Würzburg, F.R.G.)
- March 1 - 4, 1982
NIGERIAN MINING AND GEOSCIENCES SOCIETY, (18th Annual General Conference), Kaduna, Nigeria. (Secretary, Organizing Committee of NMGS, P.M.B. 2007, Kaduna, Nigeria)
- March 1 - 5, 1982
APPLIED ORE MICROSCOPY, (11th Annual Short Course, Session B), Missouri, U.S.A. (R.D. Hagni, Dept. of Geology & Geophysics, University of Missouri-Rolla, Rolla, Missouri 65401, U.S.A.)
- March 1 - 6, 1982
PALEOMAGNETIC RESEARCH IN EAST AND SOUTHEAST ASIA, (Workshop), Kuala Lumpur, Malaysia. (Project Manager, Committee for Coordination of Joint Prospecting for Mineral Resources in Asian Offshore Areas, c/o ESCAP, UN Building, Bangkok 2, Thailand)
- March 3, 1982
METAMORPHIC STUDIES: RESEARCH IN PROGRESS, (Joint Geological Society and Mineralogical Society, Metamorphic Studies Group Meeting) Burlington House, London, U.K. (M. Brown, Metamorphic Studies Group, Department of Geology and Physical Sciences, Oxford Polytechnic, Headington, Oxford OX3 0BP, U.K.)
- March 8 - 10, 1982
 • **INTEGRATED APPROACH TO FORMATION EVALUATION: AN OVERVIEW**, (Joint Association for Petroleum Exploration Course), London, U.K. (J. Greenfield, JAPC, c/o The Geological Society, Burlington House, Piccadilly, London W1V 0JU, U.K.)
- March 14 - 20, 1982
AMERICAN CONGRESS ON SURVEYING & MAPPING, (Annual Spring Meeting), Colorado, U.S.A. (M.B. Strain, P.O. Box 15652, Denver, Colorado 80215, U.S.A.)
- March 29 - April 1, 1982
HIGH GRADE METAMORPHISM, MIGMATITES AND MELTING, (Joint Meeting Geochemistry Group, Mineralogical Society and Geochemical Society), Glasgow, U.K. (C. Gribble, Department of Geology, University of Glasgow, Glasgow G12 8QQ, U.K.)
- March 31 - April 2, 1982
 * **COMPUTER METHODS FOR RESOURCE ASSESSMENT**, (International Conference), London, U.K. Co-sponsored by IAMG, The Royal School of Mines, Imperial College and COGEO DATA. (M.F. Horder, Geological Society of London, Burlington House, Piccadilly, London W1V 0JU, U.K.)
- April 1982
9th REUNION OF EARTH SCIENCES, Paris, France. (A.F. Poignant, Université P et M Curie, IXe R.A.S.T., 4 place Jussieu, 75230 Paris Cedex 05, France)
- April 1 - 3, 1982
 * **SOIL, GEOLOGY AND LANDFORMS: IMPACT ON LAND USE PLANNING IN DEVELOPING COUNTRIES**, (1st International Symposium), Bangkok, Thailand. Field trips. Co-sponsored by Kasetsart Univ. Alumni Assoc., AGID, AIT, Agricultural Science Society of Thailand. (P. Nutalaya, Symposium Secretary, Landplan 1, Division of Geotechnical & Transportation Engineering, Asian Institute of Technology, P.O. Box 2754, Bangkok, Thailand)
- April 11 - 16, 1982
THE ANTARCTIC PLATE, (GSA Penrose Conference), Shenandoah National Park, Virginia, U.S.A. (L.W.D. Dalziel, Lamont-Doherty Geological Observatory, Palisades, New York 10964, U.S.A.)
- April 13 - 16, 1982
CRYSTAL GROWTH PROCESSES IN SEDIMENTARY ENVIRONMENTS, (1st International Symposium), Madrid, Spain. (R. Rodriguez Clemente, Instituto de Geología, Consejo Superior de Investigaciones Científicas, Jose Gutierrez Abascal 2, Madrid - 6, Spain)
- April 14 - 16, 1982
ADVANCES IN QUALITY OF IMAGE DATA, (International Symposium, International Society for Photogrammetry and Remote Sensing), Canberra, Australia. (J.C. Trinder, President ISPRS, Commission I, c/o School of Surveying, University of New South Wales, P.O. Box 1, Kensington, N.S.W. 2033, Australia)
- April 19 - May 21, 1982
 • **REMOTE SENSING: GEOLOGIC INTERPRETATION**, (Advanced training course for foreign nationals; course to be repeated October 4 - November 5, 1982), Flagstaff, Arizona, U.S.A. (Training Section, Office of International Geology, U.S. Geological Survey, 917 National Center, Reston, Virginia 22092, U.S.A.)
- April 19 - 23, 1982
FIRST INTERNATIONAL MINE WATER CONGRESS, Budapest, Hungary. Languages: English, Hungarian, German, Russian, French, Spanish. (Hungarian Mining and Metallurgical Society, Anker köz 1-3, H-1061 Budapest, Hungary)
- April 21 - 23, 1982
LOW TEMPERATURE Pb Zn F Ba VEIN TYPE DEPOSITS, from the European and North African Variscan provinces, (Symposium), Orléans, France. Languages: French and English. (M. Jebrak, BRGM, Département Gîtes Minéraux, B.P. 6009, 45060 Orléans Cedex, France)
- April 21 - 23, 1982
FOURTH YUGOSLAV INTERNATIONAL SYMPOSIUM ON ALUMINIUM, Titograd, Yugoslavia. (Prof. Andrej Paulin, IV JUGAS, Dept. of Geology, Mining and Metallurgy, Askerceva 20, 61000 Ljubljana, Yugoslavia)
- April 26 - May 28, 1982
APPLICATIONS IN GEOLOGIC AND HYDROLOGIC EXPLORATION AND PLANNING, (18th International Workshop), Sioux Falls, South Dakota, U.S.A. A continuation of the foreign national program. (Training Section, Office of International Geology, U.S. Geological Survey, 917 National Center, Reston, Virginia 22092, U.S.A.)
- May 3 - 7, 1982
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 2000, Republic of South Africa)
- May 3 - 7, 1982
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 3 - 7, 1982
INTERNATIONAL CONGRESS ON THE UNIVERSAL AVAILABILITY OF PUBLICATIONS, (Unesco/IFLA), Paris, France. (IFLA, P.O. Box 82128, 2508 EC The Hague, Netherlands)
- May 5 - 7, 1982
INTERNATIONAL CONGRESS ON THE ENVIRONMENT AND GEONCEROLOGY, Brussels, Belgium. (E.G. Peeters, Services Généraux de l'Institut Européen d'Ecologie et de Cancérologie, rue des Fripiers 24 bis, B-1000 Brussels, Belgium)
- May 7 - 20, 1982
 * **IAG/IUGG**, (General Meeting), Tokyo, Japan. Study tours scheduled. (Local Organizing Committee, General Meeting of the IAG, c/o Geophysical Institute, Kyoto University, Sakyo-ku, Kyoto 606, Japan)
- May 7 - 20, 1982
RECENT CRUSTAL MOVEMENTS AND PHENOMENA ASSOCIATED WITH EARTHQUAKES AND VOLCANISM, (Symposium No. 3 at IAG meeting), Tokyo, Japan. (P. Vyskocil, ICRGM, CS-250 66 Zdice, 98, Czechoslovakia)

Coming Events...

- May 10 - 14, 1982
AUSTRALIAN AND NEW ZEALAND ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, (52nd Congress), North Ryde, N.S.W., Australia. (Hon. Organizing Secretary, 52nd ANZAAS Congress, Macquarie University, North Ryde, N.S.W. 2113, Australia)
- May 11 - 12, 1982
GEOCHRONOLOGY AND THE GEOLOGICAL RECORD, (Symposium), London, U.K. (Dr. A.L. Harris, c/o Geological Society, Burlington House, Piccadilly, London W1V 0JU, U.K.)
- May 11 - 13, 1982
HYDROLOGY AND WATER RESOURCES, (Conference), Melbourne, Australia. (1982 Hydrological and Water Resources Conference, The Institution of Engineers, 11 National Circuit, Barton A.C.T. 2600, Australia)
- May 11 - 14, 1982
ELSE AND EDITERRA, (5th General Assembly of Editerra), Pau, France. (N. Morris, ELSE/ Editerra Secretariat, P.O. Box 33, Farnham, Surrey GU10 3JX, U.K.)
- May 11 - 14, 1982
GEOHERMAL ENERGY, (International Conference), Florence, Italy. (Conference Organizer, Geothermal Energy, BHRA Fluid Engineering, Cranfield, Bedford MK43 0AJ, U.K.)
- May 12 - 14, 1982
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 13 - 14, 1982
SEDIMENTARY AND DIAGENETIC PROCESSES IN PRECAMBRIAN METALLOGENESIS, (Meeting), London, U.K. (Dr. H. Clemmy, Dept. of Earth Sciences, The University, Leeds, Yorks. LS2 9JT, U.K.)
- May 14 - 16, 1982
GRANITIC PEGMATITES, (Mineralogical Association of Canada Short Course), Winnipeg, Canada. (P. Cerny/F.C. Hawthorne, Department of Earth Sciences, University of Manitoba, Winnipeg, Manitoba, Canada R3T 2N2)
- May 16 - 18, 1982
UNCONVENTIONAL GAS RECOVERY, (Symposium), Pittsburgh, Pennsylvania, U.S.A. Sponsored by the Society of Petroleum Engineers and the Department of Energy. (The Society of Petroleum Engineers, 6200 North Central Expressway, Dallas, Texas 75206, U.S.A.)
- May 17 - 19, 1982
GEOLOGICAL ASSOCIATION OF CANADA AND MINERALOGICAL ASSOCIATION OF CANADA, (Annual Meeting), Winnipeg, Manitoba. (W.C. Brisbin, Dept. of Earth Sciences, University of Manitoba, Winnipeg, Manitoba, Canada R3T 2N2)
- May 17 - 22, 1982
REMOTE SENSING AND MINERAL EXPLORATION, (COSPAR Meeting - Symposium No. 1, IGCP Project 143), Ottawa, Canada. Co-sponsored by IUGS, IAGOD, AGID. (W.D. Carter, EROS Office, U.S. Geological Survey, MS 730, Reston, Virginia 22092, U.S.A.)
- May 17 - June 2, 1982
COSPAR, (24th Plenary Meeting), Ottawa, Canada. Co-sponsored by IUGS. Includes 5th International Symposium on Solar and Terrestrial Physics. (T.W. McGrath, LOC 24th COSPAR, Conference Secretariat, National Research Council, Ottawa, Ontario, Canada K1A 0R6)
- May 18 - 22, 1982
4th INTERNATIONAL CORAL REEF SYMPOSIUM, Manila, Philippines. (Marine Sciences Center, University of the Philippines, Box 1, Diliman, Quezon City 3004, Philippines)
- May 23 - 26, 1982
WATER AND ENERGY: TECHNICAL AND POLICY ISSUES, (Eastern Conference), Pittsburgh, U.S.A. (F. Kilpatrick, U.S. Geological Survey, National Center, Mail Stop 414, Reston, Virginia 22092, U.S.A.)
- May 24 - 28, 1982
GEOLOGICAL INFORMATION, (2nd International Conference), Golden, Colorado, U.S.A. Co-sponsored by IUGS and AGID. (C.C. Ward, University of Illinois at Urbana-Champaign, 232 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 24 - 28, 1982
GOLD '82, (Symposium), Salisbury, Zimbabwe. (R.P. Foster, Gold '82 Organizing Secretary, Institute of Mining Research, P.O. Box MP 167, Mount Pleasant, Salisbury, Zimbabwe)
- May 26 - 28, 1982
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.)
- May 27 - 28, 1982
HYDROTHERMAL PHENOMENA ASSOCIATED WITH GRANITIC ROCKS OF EUROPE, (Joint Meeting of the Mineralogical Society, London, and Société Française de Minéralogie et de Cristallographie), London, U.K. (A.H. Rankin, Dept. of Geology, Imperial College, London SW7 2BP, U.K.; A. Weisbrod, ENSG, 94 Avenue de Latrè de Tassigny, 5400 Nancy, France)
- May 31 - June 4, 1982
* **NUMERICAL METHODS IN GEOMECHANICS**, (4th International Conference), Edmonton, Canada. (Z. Eisenstein, Dept. of Civil Engineering, University of Alberta, Edmonton, Alberta, Canada T6G 2G7)
- May 31 - June 4, 1982
WORLD MINING, (11th International Congress), Belgrade, Yugoslavia. Pre- and post-Congress tours. (Organizing Committee, 11th World Mining Congress, Sava Centar, 11070 Belgrade, Yugoslavia)
- May 31 - June 4, 1982
AMERICAN GEOPHYSICAL UNION, (Spring Meeting), Philadelphia, U.S.A. (American Geophysical Union, 2000 Florida Ave. NW, Washington, D.C. 20009, U.S.A.)
- June 1982
* **SHALLOW TETHYS**, (Conference), Padua, Italy. Sponsored by the Italian Paleontological Society. (G. Piccoli, Istituto di Geologia, Via Giotto 1, 351 00 Padova, Italy/K. McKenzie, P.O. Box 588, Wagga Wagga, N.S.W. 2650, Australia)
- June 1 - 3, 1982
* **8th AND FINAL INTERNATIONAL CONFERENCE OF MID-CRETACEOUS EVENTS**, (Meeting of IGCP Project 58, in conjunction with the Second Symposium "Kreide"), Munich, F.R.G. (Institut für Paläontologie und Historische Geologie, Kreide Symposium 1982, Richard-Wagner-Str. 10/II, D-8000 München, F.R.G.)
- June 7 - 9, 1982
* **MINING, SURVEYING AND DEFORMATION MEASUREMENTS**, (4th Canadian Symposium), Banff, Canada. (E.G. Anderson, 4th MS & DM Symposium, 1982, c/o Surveying Engineering, University of Calgary, 2500 University Drive NW, Calgary, Alberta, Canada T2N 1N4)
- June 7 - 11, 1982
TUNNELLING '82, (3rd International Symposium and Exhibition), Brighton, U.K. Post conference tours. (Secretary, IMM, 44 Portland Place, London W1N 4BR, U.K.)
- June 8 - 12, 1982
* **WORKING GROUP ON THE CONIACIAN-MASTRICHTIAN STAGES OF THE SUBCOMMISSION ON CRETACEOUS STRATIGRAPHY**, (4th Working Session), Gosau, Austria. (E. Seibert, NLFB, Stilleweg 2, Postfach 51 01 53, D-3000 Hannover 51, F.R.G.)
- June 21 - August 13, 1982
* **HYDROLOGIC TECHNIQUES FOR INTERNATIONAL PARTICIPANTS**, (Annual course sponsored by the U.S. Geological Survey), Golden, Colorado, U.S.A. Field exercises, lectures. (Office of International Hydrology, Water Resources Division, U.S. Geological Survey, 470 National Center, Reston, Virginia 22092, U.S.A.)
- June 26 - July 1, 1982
AAPG, SEPM, CSPG, (Annual Meeting), Calgary, Canada. (K. Watson, AAPG, Box 979, Tulsa, Oklahoma 74104, U.S.A.)
- June 27 - 30, 1982
WATER AND ENERGY: TECHNICAL AND POLICY ISSUES, (Western Conference), Fort Collins, Colorado, U.S.A. (D. Matchett, Stone and Webster Engineering Corp., P.O. Box 5406, Denver, Colorado 80217, U.S.A.)
- June 27 - July 2, 1982
GEOCHRONOLOGY, COSMOCHRONOLOGY & ISOTOPE GEOLOGY, (Conference), Nikko National Park, Japan. (K. Shibata, Geological Survey of Japan, Higashi 1-1-3, Yatabe, Ibaraki 305, Japan)
- July 4 - 12, 1982
* **LATERITIZATION PROCESSES**, (2nd International Seminar, IGCP Project 129), Sao Paulo, Brazil. (A. Carvalho, 2nd International Seminar on Lateritization Processes, Instituto de Geociencias - USP, Caixa Postal 20.899, Sao Paulo, Brazil)
- July 7 - 9, 1982
* **MACHINE PROCESSING OF REMOTELY-SENSED DATA**, (8th International Symposium), West Lafayette, Indiana, U.S.A. Special emphasis on Crop Inventory and Monitoring. (D.B. Morrison, Purdue University/LARS, 1220 Potter Drive, West Lafayette, Indiana 47906, U.S.A.)
- July 12 - 14, 1982
* **THE MECHANICS OF SEDIMENT TRANSPORT**, (Colloquium), Taksim-Istanbul, Turkey. (B. Mutlu Sumer, Technical University of Istanbul, Faculty of Civil Engineering, Taskisla, Taksim, Istanbul, Turkey)
- July 26 - 30, 1982
* **APPLICATIONS OF OSTRACODA TO ECONOMIC AND SCIENTIFIC PROBLEMS**, (8th International Symposium on Ostracoda), Houston, U.S.A. Pre- and post-Symposium excursions. (R.F. Maddocks, Geology Dept., University of Houston, Houston, Texas 77004, U.S.A.)
- July 29 - August 4, 1982
INTERNATIONAL CARTOGRAPHIC ASSOCIATION, (11th International Conference), Warsaw, Poland. (L.A. Maercklein, U.S. Papers Committee, c/o N.Y. State Department of Transportation, Bldg. 4, Room 105, State Campus, Albany, N.Y. 12232, U.S.A.)
- August 1982
* **INTERNATIONAL ASSOCIATION OF VOLCANOLOGY AND CHEMISTRY OF THE EARTH'S INTERIOR**, (Meeting), Iceland. Sponsored by IUGG. (P.E. Baber, Dept. of Geology, University of Nottingham, Nottingham, Notts. NG7 2RD, U.K.)
- August 1 - 9, 1982
* **Xth INQUA CONGRESS**, (50th anniversary of founding of INQUA in Leningrad), Moscow, U.S.S.R. Pre- and post-Congress excursions. (I.P. Kartashov, Secretary General, XI INQUA Congress, Geological Institute, U.S.S.R. Academy of Sciences, Pyzevsky 7, Moscow 109017, U.S.S.R.)
- August 1 - 9, 1982
* **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, 1982
* **JOINT OCEANOGRAPHIC 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 5 - 11, 1982
NORTH AMERICAN PALEONTOLOGICAL CONVENTION, (3rd Meeting), Montreal, Canada. Field trips. (C. Stearn, Dept. of Geological Sciences, McGill University, 3450 University Street, Montreal, Quebec, Canada H3A 2A7)
- August 8 - 14, 1982
* **CLAY MINERALS AND DEVELOPING NATIONS**, (Clay Minerals Society Meeting), Hawaii. (W.E. Parham, Councillor, The Clay Minerals Society Office of Technology Assessment, U.S. Congress, Washington, D.C. 20510, U.S.A.)
- August 15 - 22, 1982
* **GENERATION OF MAJOR BASALT TYPES**, (International Meeting, Co-sponsored by IAGC), Reykjavik, Iceland. (G.E. Sigvaldason, Nordic

Coming Events...

- Volcanological Institute, 101 Reykjavik, Iceland)
- August 15 - 22, 1982
- **INTERNATIONAL ASSOCIATION OF GEOMAGNETISM AND AERONOMY**, (6th Workshop on Electromagnetic Induction in the Earth and Moon), Livermore, California, U.S.A. (A. Duba, Lawrence Livermore National Laboratory, Livermore, California 94550, U.S.A.)
- August 16 - 18, 1982
- **FINE-GRAINED SEDIMENTS: DEEP-WATER PROCESSES AND ENVIRONMENTS**, (International Workshop), Halifax, Canada. Sponsored by the Geological Society of Canada, (D.A.V. Stow, Grant Institute of Geology, Edinburgh University, Edinburgh EH9 3JW, Scotland, U.K.)
- August 16 - 20, 1982
- **ANTARCTIC EARTH SCIENCES**, (4th 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 18 - 21, 1982
- **REGIONAL TRENDS IN THE GEOLOGY OF THE APPALACHIAN-CALEDONIAN-HERCYNIAN OROGEN**, (Plenary Symposium, IGCP Project 27), New Brunswick, Canada. Pre- and post-Symposium field trips. (P.E. Schenk, Atlantic Canada Symposium, Dept. of Geology, Dalhousie University, Halifax, N.S., Canada B3H 3J5)
- August 18 - 23, 1982
- **DEVELOPMENT OF GEOLOGICAL MAPPING AND GEOCARTOGRAPHY WITH PROGRESS IN GEOLOGICAL THINKING**, (INHIGEO Symposium), Budapest, Hungary. Post-symposium excursions. Languages: English, French, German and Russian. (Hungarian Geological Society/MFT/INHIGEO '82, Anker-kőz 1, H-1061, Budapest VI, Hungary)
- August 20 - 21, 1982
- **PETROLEUM RESOURCES AND THEIR ASSESSMENT IN THE CIRCUM-PACIFIC**, (Symposium and Workshop), Honolulu, Hawaii, U.S.A. Co-sponsored by IUGS, East-West Center and CPEMRC. (C. Masters, U.S. Geological Survey, Reston, Virginia 22092, U.S.A.)
- August 20 - 23, 1982
- **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, 1982
- **CIRCUM-PACIFIC ENERGY AND MINERAL RESOURCES CONFERENCE**, Honolulu, Hawaii, U.S.A. (A.P. Hatch, Atlantic Richfield Co., 515 South Flower St., Los Angeles, California 90071, U.S.A.)
- August 22 - 28, 1982
- **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)
- August 23 - 27, 1982
- **PROSPECTING IN AREAS OF GLACIATED TERRAIN**, (CIM 5th Symposium), St. John's, Newfoundland, Canada. (P. Davenport, Newfoundland Dept. of Mines and Energy, P.O. Box 4750, St. John's, Newfoundland Canada A1C 5T7)
- August 30 - September 1, 1982
- **3rd EUROPEAN CONODONT SYMPOSIUM (ECOS III)**, Lund, Sweden. Post-Symposium field trip. (ECOS III, c/o Paleontologiska avdelningen, Sölvegatan 13, S-223 62 Lund, Sweden)
- August 31 - September 4, 1982
- **MESOZOIC AND CENOZOIC GEOLOGY OF CHINA**, (Symposium), Beidaihe, Hebei Province, China. Celebrating the 60th anniversary of the Geological Society of China. Languages: Chinese and English. Excursions. (Wang Zepu, Secretary General, The Geological Society of China, Fuchengmenwai, Baiwanzhuang, Beijing, People's Republic of China)
- September 1982
- **FLUIDS IN METAMORPHISM**, (Meeting, Geological Society of London and Metamorphic Studies Group), Glasgow, Scotland, U.K. Excursions. (M. Brown, Dept. of Geology and Physical Sciences, Oxford Polytechnic, Headington, Oxford OX3 0BP, U.K.)
- September 1982
- **KIMBERLITE**, (3rd International Conference), Clermont-Ferrand, France. (F. Boudier, Université de Nantes, Laboratoire de Tectonophysique, 2 rue de la Houssinière, 44072 Nantes, France)
- September 2 - 10, 1982
- **VOLCANIC PROCESSES IN MARGINAL BASINS**, (Volcanic Studies Group Meeting), Keele, U.K. Field meeting to Ordovician volcanic terrains of SW Wales and Snowdonia. (R.A. Roach, Dept. of Geology, The University, Keele, Staffordshire ST5 5B6, U.K.)
- September 3 - 11, 1982
- **ARCHEAN AND EARLY PROTEROZOIC GEOLOGICAL EVOLUTION AND METALLOGENESIS**, (International Symposium), Salvador, Brazil. Sponsored by Bahia Secretariat of Mines and Energy, SBG, CNPq, Brazilian Academy of Sciences and ICL. (A.J. Pedreira, ISAP Coordinator, CPRM, Rua Barros Falcao 21, 40.000, Salvador, Bahia, Brazil)
- September 3 - 11, 1982
- **WATER RESOURCES**, (4th World Congress), Buenos Aires, Argentina. Sponsored by the International Water Resources Association. (G.E. Stout, Water Resources Center, University of Illinois, 2335 Hydrosystems Laboratory, 208 N. Romaine, Urbana, Illinois 61801, U.S.A.)
- September 5 - 11, 1982
- **INTERNATIONAL ASSOCIATION OF HYDROGEOLOGISTS** (16th Congress), Praha, Czechoslovakia. Excursions. Languages: English, French, Russian, Czech, Slovak. (Stavěbní geologie n.p. Praha, Gorkého namesti 7, 11309 Praha 1, Czechoslovakia)
- September 6 - 8, 1982
- **GEOLOGY OF JORDAN**, (First Geological Conference), Amman, Jordan. Languages: Arabic and English. (A.M. Abed, Dept. of Geology, University of Jordan, Amman, Jordan)
- September 6 - 12, 1982
- **INTERNATIONAL ASSOCIATION ON THE GENESIS OF ORE DEPOSITS**, (VI IAGOD Symposium), Tbilisi, U.S.S.R. Languages: Russian and English. (A.G. Tvaqchrelidze, Caucasian Institute of Mineral Resources, 85 Paliashvili St., 380030 Tbilisi, U.S.S.R.)
- September 9 - 10, 1982
- **VOLCANIC PROCESSES IN MARGINAL BASINS**, (Meeting), Staffordshire, U.K. (Dr. B.P. Kokelaar, Ulster Polytechnic, School of Environmental Sciences, Shore Road, Newtownabbey, Co. Antrim BT 370QB, N. Ireland)
- September 12 - 17, 1982
- **ENGINEERING IMPLICATIONS OF EARTH SURFACE PROCESSES, ENGINEERING GEOMORPHOLOGY**, (18th annual regional meeting of the Engineering Group and Joint Meeting with the British Geomorphological Research Group), Birmingham, U.K. (J. Greenfield, JAPC, c/o The Geological Society, Burlington House, Piccadilly, London W1V 0JU, U.K.)
- September 13 - 14, 1982
- **THE NORTHERN MARGINS OF THE HERCYNIDES IN THE NORTHERN ATLANTIC REGION**, (Meeting with post meeting field excursions), Dublin, Ireland. (D. Hutton, Department of Geology, Trinity College, Dublin 2, Ireland)
- September 13 - 17, 1982
- **INTERNATIONAL SOCIETY FOR PHOTOGRAMMETRY AND REMOTE SENSING**, (Symposium and Exhibition, Commission VII, Data Interpretation), Toulouse, France. (Groupeement pour le Développement de la Télédetection Aérospatiale, 18, avenue Edouard-Belin, 31055 Toulouse Cédex, France)
- September 19 - 25, 1982
- **INTERNATIONAL MINERALOGICAL ASSOCIATION**, (13th General Meeting and field excursions), Varna, Bulgaria. (Secretary General, 13th IMA Meeting, University of Sofia, Chair of Mineralogy, Boulv. Russki 15, Sofia, 1000 Bulgaria)
- September 21 - 27, 1982
- **SWISS GEOLOGICAL SOCIETY CENTENARY**, (Meeting and Excursions), Zürich, Switzerland. (R. Trümpy, Geologisches Institut, ETH-Zentrum, CH-8095 Zürich, Switzerland)
- September 22 - 26, 1982
- **GEOLOGICAL SOCIETIES OF THE BRITISH ISLES**, (Meeting), Glasgow, Scotland. (W.E. Tremlett, Glasgow University, Glasgow G12 8QQ, U.K.)
- September 23 - 25, 1982
- **THE CENTENNIAL OF THE SOCIETA GEOLOGICA ITALIANA**, (71st Congress and field excursions), Bologna, Italy. (Signora Helga Vai, c/o Istituto di Geologia e Paleontologia dell'Università, via Zamboni 63-67, 40127 Bologna, Italy)
- September 23 - 25, 1982
- **PETROLEUM GEOCHEMISTRY AND EXPLORATION OF NW EUROPE**, (Petroleum Geochemistry Group Meeting), Glasgow, U.K. (J. Brooks, Exploration Division, The British National Oil Corporation, 150 St. Vincent Street, Glasgow G2 5LJ, U.K.)
- September 28 - 30, 1982
- **GEOLOGICAL EVOLUTION OF THE EASTERN MEDITERRANEAN**, (Meeting), Edinburgh, Scotland. (Dr. A.H.F. Robertson, Grant Institute of Geology, University of Edinburgh, West Mains Road, Edinburgh EH9 3JW, Scotland)
- October 3 - 6, 1982
- **ASSOCIATION OF EARTH SCIENCE EDITORS**, (Annual Meeting), Williamsburg, Virginia, U.S.A. (Judy C. Holovick, American Geophysical Union, 2000 Florida Avenue NW, Washington, D.C. 20009, U.S.A.)
- October 4 - November 5, 1982
- **REMOTE SENSING: GEOLOGIC INTERPRETATION**, (Advanced training course for foreign nationals), Flagstaff, Arizona, U.S.A. (Training Section, Office of International Geology, U.S. Geological Survey, 917 National Center, Reston, Virginia 22092, U.S.A.)
- October 4 - 8, 1982
- **APPLIED ORE MICROSCOPY**, (12th Annual Short Course), Rolla, Missouri, U.S.A. To precede International Conference on Mississippi Valley-type Lead-Zinc Deposits in Rolla. (R.D. Hagni, Dept. of Geology and Geophysics, University of Missouri, Rolla, Missouri 65401, U.S.A.)
- October 11 - 20, 1982
- **INTERNATIONAL COUNCIL FOR THE EXPLORATION OF THE SEA**, (70th Statutory Meeting), Copenhagen, Denmark. (General Secretary ICES, Palaeagade 2-4, 1261 Copenhagen K, Denmark)
- October 17 - 22, 1982
- **V LATIN AMERICAN GEOLOGICAL CONGRESS**, Buenos Aires, Argentina. Languages: Spanish, Portuguese, English and French. (5th Congreso Latinoamericano de Geología, Avenida Santa Fé 1548-12° Piso, 1060 Buenos Aires, Argentina)
- October 18 - 21, 1982
- **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, Colorado 80301, U.S.A.)
- October 18 - 22, 1982
- **SOCIETY OF EXPLORATION GEOPHYSICISTS**, (Annual Meeting), Dallas, U.S.A. (J. Hyden, Society of Exploration Geophysicists, Box 3098, Tulsa, Oklahoma 74101, U.S.A.)
- October 27 - 29, 1982
- **NEW PATHS TO MINERAL EXPLORATION**, (3rd International Symposium on Mineral Resources), Hannover, F.R.G. (R. Weber, Federal Institute for Geosciences and Natural Resources, Postfach 51 01 53, D-3000 Hannover 51, F.R.G.)
- November 1982
- **1ST INTERNATIONAL SHORT COURSE ON SMALL SCALE MINING**, (Sponsored by AGID and includes lectures, lab work, seminars and field tours), Bangalore, India. (Prof. C. Naganna, Director, School of Earth Sciences, Bangalore University, Jnana Bharathi, Bangalore 560 056, India.)
- November 1982
- **ASSOCIATION OF ENGINEERING GEOLOGISTS**, (Meeting), Montreal, Canada. (F.J. Johnston, 8310 San Fernando Way, Dallas, Texas 75218, U.S.A.)
- November 10 - 13, 1982
- **AMERICAN INSTITUTE OF PROFESSIONAL GEOLOGISTS**, (Annual Meeting), Pasadena, U.S.A. (American Institute of Professional Geo-

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logists, Box 957, Golden, Colorado 80401, U.S.A.)

November 17 - 19, 1982

OPHOLITES AND OCEANIC LITHOSPHERE, (Meeting), London, U.K. (S. Lippard, Dept. of Earth Sciences, Open University, Milton Keynes MK7 6AA, U.K.)

November 24, 1982

METAMORPHIC STUDIES: RESEARCH IN PROGRESS, (Joint Geological Society and Mineralogical Society Metamorphic Studies Group Meeting), London, U.K. (M. Brown, Metamorphic Studies Group, Dept. of Geology and Physical Sciences, Oxford Polytechnic, Headington, Oxford OX3 0BP, U.K.)

December 1 - 6, 1982

* **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)

December 6 - 10, 1982

AMERICAN GEOPHYSICAL UNION, (Fall Meeting), San Francisco, U.S.A. (American Geophysical Union, 2000 Florida Ave. NW, Washington, D.C. 20009, U.S.A.)

1983

January 1983

* **COGEO DATA-EAMRDC TRAINING COURSE**, Arusha, Tanzania. Two-week course on Modern Methods of Capture, Storage and Evaluation of Geological and Geochemical Data. (G. Gabert, Federal Institute for Geosciences and Natural Resources, Stilleweg 2, Postfach 51 01 51, D-3000 Hannover 51, F.R.G.)

January 31 - February 25, 1983

• **REMOTE SENSING: DIGITAL IMAGE PROCESSING**, (Advanced training course for foreign nationals), Flagstaff, Arizona, U.S.A. (Training Section, Office of International Geology, U.S. Geological Survey, 917 National Center, Reston, Virginia 22092, U.S.A.)

February 1 - 11, 1983

XV PACIFIC SCIENCE CONGRESS, Dunedin, New Zealand. (Secretary-General, 15th Pacific Science Congress, P.O. Box 6063, Dunedin, New Zealand)

February 1 - 11, 1983

* **PACIFIC NEOGENE STRATIGRAPHY**, (3rd International Meeting), Dunedin, New Zealand. 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.)

April 17 - 20, 1983

AAPG and SEPM, (Joint Annual Meeting), Dallas, U.S.A. (AAPG, Box 979, Tulsa, Oklahoma 74101, U.S.A.)

May 12 - 15, 1983

GEOLOGICAL ASSOCIATION OF CANADA, (Annual Meeting), Victoria, B.C. (A.V. Morgan, Dept. of Earth Sciences, University of Waterloo, Waterloo, Ontario, Canada N2L 3G1)

May 26 - 31, 1983

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, (Annual Meeting), Detroit, U.S.A. (American Association for the Advancement of Science, 1776 Massachusetts Ave. NW, Washington, D.C. 20036, U.S.A.)

July 18 - 22, 1983

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.)

August 7 - 12, 1983

FOSSIL CORALS, (Symposium), Washington, D.C. (W.A. Oliver, Jr., U.S. Geological Survey, E-305 Natural History Bldg., Smithsonian Institution, Washington, D.C. 20560, U.S.A.)

August 15 - 26, 1983

* **IUGG**, (18th General Assembly), Hamburg, F.R.G. (Local Organizing Committee, IUGG 1983, Hamburg Messe und Congress GmbH H-Congress Organization - Postfach 30 23 60, 2000 Hamburg 36, F.R.G.)

August 27, 1983

KRAKATAU ERUPTION, (Centennial Symposium), Jakarta, Indonesia. (D.S. Sastrapradja, Indonesian Institute of Sciences, Box 250, Jakarta, Indonesia)

August 29 - September 8, 1983

• **INTERNATIONAL ASSOCIATION OF GEOCHEMISTRY AND COSMOCHEMISTRY**, (4th International Symposium of Water-Rock Interaction), Misasa, Japan. Sponsored by the Institute for Thermal Spring Research, Geochemical Society of Japan, and Geothermal Research Society of Japan. (H. Sakai, Secretary-General, WRI-4, Institute for Thermal Spring Research, Okayama University, Misasa, Tottori-ken 682-02, Japan)

September, 1983

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, 1983

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)

September, 1983

* **THE HERCYNIO-CALEDONIDE EVOLUTION OF MOROCCO**, Rabat, Morocco. Organized in collaboration with IGCP Project 27. (M. Bensaid, Colloque sur les Hercynio-Caledonides du Maroc, Direction de la géologie, Ministère de l'Energie et des Mines, Rabat, Morocco)

September 11 - 15, 1983

• **SOCIETY OF EXPLORATION GEOPHYSICISTS**, (53rd Annual Meeting), Las Vegas, Nevada, U.S.A. (J. Hyden, SEG, Box 3098, Tulsa, Oklahoma 74101, U.S.A.)

September 12 - 17, 1983

CARBONIFEROUS STRATIGRAPHY AND GEOLOGY, (10th International Congress), Madrid, Spain. Languages: English, French, German, and Spanish; English and Spanish preferred for oral presentations. (Comite Organizador del X Congreso Internacional de Estratigrafia y Geologia del Carbonifero, Instituto Geologico Minero de Espana, Rios Rosas, 23-Madrid-3, Espana)

September 19 - 23, 1983

WORLD ENERGY, (12th Conference), New Delhi, India. (E. Ruttley, World Energy Conference, 34 St. James Street, London SW1A 1HD, U.K.)

October 1983

INTERNATIONAL COUNCIL FOR THE EXPLORATION OF THE SEA, (71st Statutory Meeting), Göteborg, Sweden. (General Secretary ICES, Palaegade 2-4, 1261 Copenhagen, Denmark)

October 30 - November 3, 1983

SOCIETY OF EXPLORATION GEOPHYSICISTS, (Annual Meeting), Washington, D.C., U.S.A. (John Hyden, SEG, Box 3098, Tulsa, Oklahoma 74101, U.S.A.)

October 31 - November 3, 1983

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

December, 1983

• **GROUNDWATER 1983**, (IAH Symposium), Sydney, Australia. (W. Williamson, Ibis House, 201/211 Miller St., P.O. Box 952, North Sydney, N.S.W. 2060, Australia)

December, 1983

GEOLOGY OF SOMALIA, Mogadishu, Somalia. Languages: Somali, Arabic, English, Italian, French, Russian. (The Dean, Faculty of Geology, Somali National University, P.O. Box 1081, Mogadishu, Somali Democratic Republic)

December 5 - 9, 1983

• **AMERICAN GEOPHYSICAL UNION**, (Fall Meeting), San Francisco, U.S.A. (Meetings, AGU, 2000 Florida Ave. NW, Washington, D.C. 20009, U.S.A.)

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AAPG and SEPM, (Joint Annual Meeting), San Antonio, Texas, U.S.A. (AAPG, Box 979, Tulsa, Oklahoma 74101, U.S.A.)

July 21 - 28, 1984

EARTHQUAKE ENGINEERING, (8th World Conference), San Francisco, U.S.A. (R.B. Matthisen, Chair - 8WCEE, Earthquake Engineering Research Institute, 2620 Telegraph Ave., Berkeley, California 94704, U.S.A.)

August 4 - 14, 1984

* **27th INTERNATIONAL GEOLOGICAL CONGRESS**, Moscow, U.S.S.R. (N. Bogdanov, Secretary General, 22 IGC Secretariat, Lithosphere Institute, 22 Staromonetny per., 109180 Moscow, U.S.S.R.)

September, 1984

* **CALEDONIDE OROGEN**, (IGCP Project 27, Working Group Meeting), Edinburgh, Scotland. Pre-meeting excursions in Ireland, Scotland, England and Wales. (A.L. Harris, The University of Liverpool, Jane Herdman Laboratories of Geology, Brownlow Street, P.O. Box 147, Liverpool L69 3BX, U.K.)

November 5-8, 1984

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

December 2 - 6, 1984

• **SOCIETY OF EXPLORATION GEOPHYSICISTS**, (54th Annual Meeting), Atlanta, Georgia, U.S.A. (J. Hyden, SEG, Box 3098, Tulsa, Oklahoma 74101, U.S.A.)

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