

**PROGRAMME OF MEETINGS**  
**NATO INTERNATIONAL SCIENTIFIC EXCHANGE PROGRAMME**  
**MATHEMATICAL AND PHYSICAL SCIENCES**

Advanced Study Institutes (ASIs) are tutorial courses of 10 days dealing with new and important topics for up to 100 research scientists and students. Pre- and post-doctoral researchers are invited to participate in these institutes. Some limited financial support is available for deserving participants.

Advanced Research Workshops (ARWs) are working meetings lasting 4-5 days which enable a restricted group of invited experts to review the state of the art and formulate recommendations for future research.

Interested scientists should contact the directors of the meetings directly.

**THE LARGE-SCALE ATMOSPHERIC TRANSPORT OF NATURAL AND CONTAMINANT SUBSTANCES FROM CONTINENT TO OCEAN AND CONTINENT TO CONTINENT**

ARW - St George's (Bermuda), January, 1988  
Contact Dr A H Knap  
Director, Bermuda Biological Research Station,  
17 Biological Station Lane  
Ferry Reach GE 01, Bermuda

**SQUEEZED AND NON-CLASSICAL LIGHT**

ARW - Cortina (Italy), January, 1988  
Contact Dr P Tombesi  
Dipartimento di Fisica, Università Roma LA  
SAPIENZA, Piazzale A Moro 2  
I-00185 Rome, Italy

**MODELLING THE OCEAN GENERAL CIRCULATION AND GEOCHEMICAL TRACER TRANSPORT**

ASI - Les Houches (France), February, 1988  
Contact Dr D Anderson  
Atmospheric Physics, Clarendon Laboratory,  
Parks Rd  
Oxford OX7 1JE, U K

**SIMPLE MOLECULAR SYSTEMS AT VERY HIGH DENSITY**

ARW - Les Houches (France), March, 1988  
Contact Dr A Polian  
Physique des Milieux Condenses, Université P & M Curie, 4 Place Jussieu  
F-75252 Paris Cedex 05, France

**TIMING NEUTRON STARS**

ASI - Izmir (Turkey), April, 1988  
Contact Professor H Ogelman  
Max-Planck Institut fuer Extraterrestrische Physik,  
D-8046 Garching, Germany

**BANDSTRUCTURE ENGINEERING IN SEMICONDUCTOR MICROSTRUCTURES**

ARW - Il Ciocco (Italy), April, 1988  
Contact Dr R A Abram  
Science Laboratories, University of Durham,  
South Road  
Durham DH1 3LE, U K

**PALAEOMAGNETISM AND GEOMAGNETISM**

ASI - Newcastle upon Tyne (U K), April, 1988  
Contact Professor S K Runcorn  
School of Physics, The University,  
Newcastle upon Tyne NE1 7RU, U K

**HETEROGENEOUS CATALYSTS FOR CARBON MONOXIDE CONVERSION**

ARW - Groppe (France), April, 1988  
Contact Professor P A Jacobs  
Lab Oppervlaktechemie, K U Leuven, Kard  
Mercuriaan 92  
B-3030 Leuven (Heverlee), Belgium

**NUMBER THEORY AND APPLICATION**

ASI - Banff / Alberta (Canada), April, 1988  
Contact Dr R A Mollin  
Mathematics Dept., University of Calgary,  
Calgary Alberta T2N 1N4, Canada

**HUMIDITY EXCHANGE OVER THE SEA (HEXOS) - ANALYSIS AND INTERPRETATION**

ARW - De Bilt (Netherlands), April, 1988  
Contact Dr W A Oost  
K N M I, P O Box 201  
NL-3730 AE De Bilt, The Netherlands

**PALEOMAGNETIC ROTATIONS AND CONTINENTAL DEFORMATION**

ARW - Loutra Edispos (Greece), May, 1988  
Contact Dr C Laj  
Centre des Faibles Radioactivites, B P 1  
F-91190 Gif-sur-Yvette, France

**MARBLE IN ANCIENT GREECE AND ROME - GEOLOGY/SOURCES/COMMERCE AND ARTIFACTS**

ARW - Il Ciocco/Tuscany (Italy), May, 1988  
Contact Professor N Herz  
Dept of Geology, University of Georgia,  
Athens GA 30602, U S A

**DARK MATTER IN THE UNIVERSE**

ASI - Erice (Italy), May, 1988  
Contact Professor P. Galeotti  
Ist do Cosmogeofisica del CNR, Università di  
Torino, Corso Fiume 4  
I-10133 Torino, Italy

**CAUSES AND EFFECTS OF EARTHQUAKES AT PASSIVE MARGINS AND AREAS WITH POSTGLACIAL REBOUND ON BOTH SIDES OF THE NORTH ATLANTIC**

ARW - Vordingborg (Denmark), May, 1988  
Contact: Dr. S. Gregersen  
Dept of Seismology, Geodetic Institute,  
Gamlehavn Alle 22  
DK-2920 Charlottenlund, Denmark

**HIGHLY REDUNDANT SENSING IN ROBOTIC SYSTEMS**

ARW - Il Ciocco (Italy), May, 1988  
Contact: Dr. J. Tou  
Center for Information Research, University of  
Florida, 314 CSE Building  
Gainesville FL 32611, U S A

**EUROPEAN NEOGENE MAMMAL CHRONOLOGY**

ARW - Schloss Reisenburg (Germany), May, 1988  
Contact Dr E Lindsay  
Dept of Geosciences, University of Arizona,  
Tucson AZ 85721, U S A

**SPECTROSCOPY OF INORGANIC BIOACTIVATORS**

ASI - Thessaloniki (Greece), May, 1988  
Contact Professor T Theophanides  
Dept de Chimie, Université de Montreal, C P  
6128 Succ. A  
Montreal Quebec H3C 3J7, Canada

**ELECTROMAGNETIC COUPLING IN THE POLAR CLEFTS AND CAPS**

ARW - Sandefjord (Norway), May, 1988  
Contact Professor A Egeland  
Dept of Physics, University of Oslo, P O Box  
1048 - Blindern  
N-0316 Oslo 3, Norway

**COMMON TRENDS IN STATISTICAL PHYSICS AND FIELD THEORY**

ARW - Cargèse (France), May, 1988  
Contact Dr C Itzykson  
Service de Physique Theorique, CEN-Saclay,  
F-91191 Gif-Sur-Yvette Cedex, France

**ATOMS IN STRONG FIELDS**

ASI - Kos (Greece), May, 1988  
Contact Professor C A Nicolaidis  
Theor & Physical Chemistry Inst., Hellenic  
Research Foundation, 48 Vas' Constantinou Ave  
Athens 116/35, Greece

**NOISE AND NONLINEAR PHENOMENA IN NUCLEAR SYSTEMS**

ARW - Valencia (Spain), May, 1988  
Contact Professor J L Munoz-Cobo  
Ingenieria Quimica y Nuclear, Univ Polit de  
Valencia, Apdo 22012  
E-46071 Valencia, Spain

**FREE RADICAL IN SYNTHESIS AND BIOLOGY**

ARW - Gargnano (Italy), May, 1988  
Contact: Professor F. Minisci  
Dipartimento di Chimica del Politecnico, Piazza  
L. da Vinci 32  
I-20133 Milan, Italy

**SELECTIVE EXCITATION AND ACTIVATION OF LANTHANIDE LEVELS IN MOLECULES**

ARW - Sophia Antipolis (France), June, 1988  
Contact: Dr. P. Caro  
Laboratoire de Bellevue, CNRS, 1 Place A. Briand  
F-92195 Meudon, France

**SOLID STATE BATTERIES**

ASI - Erice (Italy), July, 1988  
Contact: Dr J R Akridge  
Eveready Battery Company, P O Box 45055  
Westlake Ohio 44145, U S A

**PROPERTIES AND APPLICATIONS OF 2D ORGANIC FILMS: LB FILMS AND RELATED STRUCTURES**

ARW - Gif sur Yvette (France), June, 1988  
Contact Dr A Barraud  
D P C/S C M, Centre d'Etudes Nucleaires  
Saclay,  
F-91191 Gif-sur-Yvette, France

**MORPHOLOGICAL IDENTIFICATION OF PLANT-PARASITIC NEMATODE GENERA**

ARW - Raleigh (U S A), June, 1988  
Contact Dr H Ferris  
Dept of Nematology, University of California,  
275 Mrak Hall - Office of Res  
Davis CA 95616, U S A

**ADVANCED INFORMATION TECHNOLOGY FOR INDUSTRIAL MATERIAL FLOW SYSTEMS**

ARW - Grenoble (France), June, 1988  
Contact Professor C L Moodie  
School of Industrial Engineering, Purdue  
University,  
W Lafayette IN 47907, U S A

**NON-SATURATED FLOW IN HYDROLOGIC MODELING**

ARW - Le Rouet (France), June, 1988  
Contact Professor H-J Morel-Seytoux  
Dept of Civil Engineering, Colorado State  
University,  
Fort Collins CO 80523, U S A

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