

# INNOVATION AND TECHNOLOGY TRANSFER

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## Note to Readers

The European Community is reaching a **new stage** in its development. The Single Market will be completed in slightly more than a year's time. A big share of the directives and regulations provided for in the Single European Act for the creation of the Single Market are already approved and many others will be adopted in the near future. The third R&D Framework Programme will also soon be operational with the adoption of its 15 specific programmes expected by Spring 1991.

Against this background, the CEC is faced with the challenge of devising new prospects for the development of the Community. In this context two major initiatives must be stressed: 1. The creation of **EUROPEAN MONETARY UNION (EMU)**, which will be discussed by the Council at the end of this year. A single currency will eliminate exchange rate variability, uncertainty and transaction costs, thus complementing and enriching the Single Market. 2. The dynamic political change in Europe requires a **new formula for European cooperation and cohesion**. The idea has been launched that the EEC should go beyond its original economic scope by creating a political union. In any case there is broad agreement that **decision structures** at European level need to be revised and improved in order to respond better to today's political and economic requirements.

I&TT has tried to assist you by providing information on European developments, particularly in the fields of innovation and R&D. The fact that its print-run rose to 50000 copies shows that we were on the right track in our approach of keeping you informed. The editor of I&TT, Dr. **A. von Witzleben**, is shortly to leave DG XIII for a new post in the Office for Official Publications of the EC. I should like to thank him for his creative and dedicated work, which has contributed considerably to fostering European cooperation between researchers and operators in the field of innovation.

DG XIII is currently developing a new publication strategy which envisages various improvements. In this context I&TT will — I hope — continue to play its important role. However, I should like to ask you to give us some time and be patient during the next months while we find solutions which will mean even better communication of information on CEC research and development programmes.

Dr. A.S. Strub

Director for Exploitation of Research, Technological Development, Technology Transfer and Innovation

## CEC — R&D POLICY: WHAT'S COMING NEXT?

The Research Council scheduled to be held in Luxembourg in October has been postponed, and will probably rescheduled for November.

The reasons for this postponement are the overlapping between the preparation for the different dossiers (notably the **15 specific programmes**) by the experts of the Twelve within the Council and the work of the European Parliament, and the

outstanding discussions on **scientific and technological cooperation with third countries**, notably from Central and Eastern Europe. Another major topic, the **ITER** programme on cooperation between the European Community, the USA and Japan with a view to the development of an R&D project on a **thermonuclear fusion reactor**, is also pending; the CEC will submit a draft negotiating mandate with a view to this cooperation.

### SPECIFIC PROGRAMMES UNDER THE NEW FRAMEWORK PROGRAMME

The CEC has adopted the proposals for all **15 specific programmes** envisaged by the framework programme (see I&TT, 3/90, page 2). Information on the recently adopted programmes in the field of **nuclear fission and fusion** is given on

pages 11 and 12. Both the Council and the European Parliament have now to approve these specific programmes, which will then become fully operational, and **calls for proposals** will be launched for most of them probably in Spring 1991.

### SCIENTIFIC AND TECHNOLOGICAL COOPERATION WITH THIRD COUNTRIES

The Council held an initial debate on the Commission's communication on **scientific and technological cooperation with third countries** (see I&TT, 3/90, page 6). The ministers would like a more detailed analysis including a cost/benefits

analysis and taking account of the fact that exported Community technologies might be appear later on the Community market as finished products.

### SCIENTIFIC AND TECHNOLOGICAL COOPERATION WITH THE COUNTRIES OF CENTRAL AND EASTERN EUROPE

The Commission is requested to expand its proposal (see I&TT 3/90, page 6). Certain countries think the general opening of EC research programmes to these countries would be

premature; priority areas should be identified, including for example human resources, the environment and nuclear safety.

### PHILIPS HAS WITHDRAWN FROM THE 'JESSI' PROGRAMME

Philips has announced its withdrawal from the **JESSI** programme (Joint European Submicron Silicon), which comes under **EUREKA** and is aimed at developing **live memory chips** in Europe. The other participants apart from Philips are the German group Siemens, the Franco-Italian group SGS-Thomson and the EC. Mr **F.M. Pandolfi**, Vice-President of

the EC, commented: 'Philips will remain an active participant for the rest of the projects, which are the most significant part of the JESSI programme. JESSI will continue and will not change its aims. The EC is strongly committed to supporting it'.

### ALEXANDER VON WITZLEBEN TO LEAVE I&TT THE PRESENT I&TT TEAM SAYS GOODBYE

Alexander von Witzleben, Editor of I&TT since July 1988, is shortly to leave DG XIII. He will join the newly founded copublication department of the Office for Official Publications in Luxembourg. The task of this new department is to improve Community publications and their dissemination through cooperation with private publishers. Mr v. Witzleben's new address is as follows: Office for Official Publications, copublication unit, Office 306, 2, rue Mercier, L-2985 Luxembourg, Tel: (352) 49928-0, Fax: (352) 490003. Miss Silvia Panetta, I&TT secretary, will also leave I&TT and take up a new post in DG XVIII, where she will join the EuroTech Capital Unit (see page 51)

The I&TT team wishes to thank its readers for their strong support and the many letters received. We have tried to take your suggestions into consideration as much as possible. We have enjoyed our work very much and are proud to have had so much feedback from our readers.



The I&TT team: Mr A. v. Witzleben (editor), Miss S. Panetta (secretary), Mr R. de la Torre (data base manager).

## PHARE PROGRAMM EXTENDED TO CZECHOSLOVAKIA, BULGARIA AND YUGOSLAVIA

The aid for reforms already in force with Poland and Hungary under the PHARE Programme has been extended to **Czechoslovakia, Bulgaria, Yugoslavia and, up to 3 October 1990, East Germany** (OJ, L 257 of 21.9.1990). A specific additional Council decision will be needed to allow this aid to be extended to **Romania** as well.

The CEC will commit in due time the 200 million ECUs included in the 1990 budget for support to East European countries other than Poland and Hungary. I&TT wishes to remind its

readers that firms, institutions, federations, training centres and consultancies which feel that they can offer assistance in restructuring the Poland and Hungarian economies must **first approach the government of the country concerned**. In accordance with the general rules for administering public funds, the Commission will issue invitations to tender within the Community and in the countries concerned for the implementation of technical assistance projects requiring expertise, supplies or public works (see also page 5).

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## STRENGTHENING EAST-WEST COOPERATION

### CEC COMMUNICATION ON INDUSTRIAL COOPERATION WITH EASTERN EUROPE

The CEC has approved a communication to the Council and the European Parliament which proposes **strengthening industrial cooperation with the countries of Central and Eastern Europe**, e.g. by helping to establish the right framework conditions or joint activities between industrial firms. Taking into account the considerable deficiencies of their industrial set-up (out-of-date and polluting plants, high energy consumption, superfluous personnel, out-of-date technology, etc.), these countries need to establish an entirely new **legal, administrative, banking and taxation environment**. They must improve production, attract investment and integrate into world trade. The support of G24 (**PHARE action**) is already working towards this, but the Commission thinks there must also be **specific complementary action** to the benefit of all the Eastern European countries, **including the USSR** (which is not covered by PHARE). Improvements have already been introduced in several coun-

tries, particularly to encourage joint ventures, but these efforts are still insufficient. Communication and banking infrastructures remain under-developed, the services network is inadequate, etc. The Commission proposes acting along the following lines: greater transparency in **conditions for direct investments** and the evolution of markets, promotion of a **new legal framework**, particularly including true company law and provisions on competition, consumer protection, the environment, etc., effective protection of **intellectual, industrial and commercial property**, **support for the development of SMEs**, **standardization** and certification of products, **sectoral action**, particularly for the steel, shipbuilding, chemical, paper and cement industries.

The communication SEC (90) 1213 final of 13.7.1990 can be obtained from the press and information offices of the CEC (see page 55)

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## ELIMINATION OF QUANTITATIVE RESTRICTIONS

The Council of Ministers of 17.9.1990 expressed its agreements with the substance of the regulation that **eliminates import restrictions on industrial goods** originating in East European countries. For the time being the **liberalization measures** concern **Czechoslovakia** and

**Bulgaria** alone because Poland and Hungary already benefit from them, Yugoslavia enjoys a special bilateral agreement and East Germany is now part of the Community zone. This decision is published in OJ L 259 of 24.9.1990 and L 262 of 26.9.1990.

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## EUROPEAN BANK FOR RECONSTRUCTION AND DEVELOPMENT

The proposal of the CEC for a Council decision establishing the European Bank for Reconstruction and Development (EBRD) was published in OJ C 241 of 26.9.1990. The purpose of the EBRD is to foster the transition towards open market-

oriented economies and to promote private and entrepreneurial initiative in the Central and Eastern European countries.

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## COOPERATION IN THE FIELD OF R&D (COST) WITH CENTRAL AND EASTERN EUROPEAN COUNTRIES

The Council of the EC welcomes the possibility of progressively including **Central and Eastern European countries** undergoing reforms based on the founding principles of democracy, pluralism and the rule of law as **members of the COST framework**. R&D cooperation with such countries should have clear scientific justification, be mutually bene-

ficial and take place after a careful examination of the overall implications of such an enlargement (see OJ, C172 of 13.7.1990).

Contact: Mr. M. Chapuis, CEC, DG XII/G/1, SDME 03/83, 200, rue de la Loi, B-1040 Bruxelles, Tel.: (32) 2 235 41 06, Fax: (32) 2 236 30 24

## INNOVATION OPPORTUNITIES: COOPERATION WITH CENTRAL AND EASTERN EUROPE

**1. EAST WEST COOPERATION IN ENGINEERING:** Issue No 35 of 'SEFI News' the information bulletin of the European society for engineering education, is devoted to possibilities of cooperation with Poland, Hungary and Czechoslovakia, providing in depth information and university contact addresses. Contact: Mr Y. Beernaert/Mrs F. Côme, 51 rue de la Concorde, B-1050 Brussels, Tel.: (32) 2 512.17.34, Fax.: (32) 2 512.32.65.

**2. INNOVATION CENTRE IN BUDAPEST:** The first innovation centre to go into operation in Hungary is Innotech. Contact: Innotech, Dr Z. Pálmai, P.O.Box 350, H-1519 Budapest

**3. THE IMPACT OF GERMAN UNIFICATION ON THE EC:** A temporary task force of the European Parliament has elaborated an in-depth study on the impact of the Unification of Germany on the EC. It can be obtained from: DG Research, Schuman 6/75, EP, L-2929 Luxembourg, Tel.: (352) 4300-3109, Fax.: (352) 437071.

**4. EASTERN EUROPEAN R&D CENTRES:** The European Research Centres Directory lists R&D centres in Eastern Europe, together with their addresses and phone numbers (including information centres, libraries etc.) Published by Longman Group UK Ltd, London WC1N 3NJ

**5. INNOVATION CENTRE POZNAN:** The Wielkopolska Innovation and Incubation Centre welcomes contacts: Mr K. Zasiadly, Wielkopolska Innovation Centre, Al. Niedpoleglosci 16/18, PO-60967 Poznan.

**6. INNOVATION AND TECHNOLOGY TRANSFER IN EASTERN GERMANY:** This new publication (in German) lists 200 innovation and technology transfer institutions in Eastern

Germany (Technologietransfer und Technika in der DDR). It can be obtained from: Mr H. Fiedler, ADT, Gustav-Meyer-Allee 25, D-W-1000 Berlin 65, Tel.: (49) 30 469.41.57, Fax.: (49) 30 463.30.95 (DM 50). Contact for innovation institutions in East Germany: Dr Lehmann or Prof. Däumichen, Zentralinstitut f. Hochschulbildung, Aristotelessteig 4, D-O-1157 Berlin, Tel.: (49) 504 29.28.

**7. COOPERATION WITH SAXONY:** The Sächsische Landesgewerbebeihilfungs-gesellschaft mbh (SCG) assists in cooperation arrangements in the fields of engineering, electronics and consumer goods. Contact: Mr P. Suchy, SCG, Markt 5, PSF 659, D-O-9010 Chemnitz, Tel.: (49) 6600, Tlx.: 75138, Fax.: (49) 66.02.70. The Patent Service at the Technical University of Dresden offers interested firms and institutions assistance in finding small and medium-sized enterprises for joint ventures, cooperation agreements etc. Contact: Dr Heyner, Patent Service TU Dresden, Mommsenstrasse 13, D-O-8027 Dresden, Tel.: (37) 463 37.25, Fax.: (37) 51 470.294.

**8. ENVIRONMENTAL TECHNOLOGY FOR HUNGARY:** Cleantech — a consulting company for environmental protection, innovation and technology transfer offers its assistance for joint ventures, and cooperation agreements, etc in Hungary. Contact: Mrs M. Misinecz, Clean-Tech, Ötös János n. 1-3, H-1021 Budapest, Tel.: (36) 1 176 2922, Fax.: (36) 1 176.29.32.

**9. CONTACTS WITH THE SU IN THE FIELD OF AGRICULTURAL R&D:** Prof. A. Knüppel, Humbert Univ, Invalidenstrasse 42, D-O-1040 Berlin, Tel.: (49) 2897/2341.

## R&D TRANSLATIONS FROM THE USSR AND EASTERN EUROPE

Translations  
from the  
USSR  
and Eastern Europe  
1990



TURPIN  
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The British Library Document Supply Centre has promoted the research and scientific work of Soviet authors for thirty years by producing a series of **translated journals covering several fields of science and technology.** These journals enable researchers to keep up to date with, and benefit from, Soviet research, and industrialists to promote their expertise in the appropriate areas to the Soviet authorities. Appear-

ing in English, these journals are: International Polymer Science and Technology, Organometallic Chemistry in the USSR, Russian Chemical Reviews, Russian Journal of Inorganic Chemistry, Russian Journal of Physical Chemistry, Russian Mathematical Surveys, Steel in the USSR, and Thermal Engineering.

Subscriptions, sample copies and further information are available from: Mrs A. Seed, British Library Document Supply Centre, Wetherby, West Yorkshire, England LS23 7BQ, Tel.: (44) 937 54.60.78, Fax.: (44) 937 54.63.33.

## EC MINISTERS DISCUSS FURTHER POLICY ON ENVIRONMENTAL ISSUES IN CENTRAL AND EASTERN EUROPE

A first meeting at ministerial level between the EEC and the countries of Central and Eastern Europe, held in Dublin on 16.6.1990, was devoted to the **environment** and ended with the adoption of joint **conclusions indicating guidelines and priorities for close cooperation.** The main guidelines agreed concern: 1. the need for **reliable information** on the real state of the environment in Eastern European countries, 2. the need to avoid any **'environmental dumping'**, i.e. avoiding the risk of companies setting up in countries where the environmental legislation is not very strict.

The conclusions also underline the following elements: **a)** the need for **environmental policies at regional, national and world level** in order to guarantee a high level of environmental

protection, **b)** the need to provide for **effective procedures to assess the environmental impact of new industrial companies** in the countries of Central and Eastern Europe, **c)** the urgent need to deal with the **transfrontier effects of pollution** and definition of an action plan, including the following elements: **i)** assessment of the state of the environment, **ii)** rapid revision of existing pollution-control agreements with EEC assistance, **iii)** priority for nuclear safety and air and water pollution and **iv)** urgent enforcement, in the countries of Eastern Europe, of standards and environmental impact review procedures applicable in the EC.

Contact: Mr P. Bourel de la Roncière, DG XI/C/1, BREY 10/240, 200 rue de la Loi, B-1049 Brussels, Fax.: (32) 2 235.01.44.

## PHARE: ASSISTANCE FOR ECONOMIC RESTRUCTURING IN CENTRAL AND EASTERN EUROPE

As part of the 300 million ECU programme to support the process of **economic and social reform** under way in Hungary and Poland, the Commission has taken a number of **financing decisions on projects** in the priority sectors, namely agriculture, investment, the environment and training. These operations will be put out for tender and open to all firms of the Community and of the two recipient countries. Invitations to tender will be published in the Official Journal (OJ-series 'S') of the EC.

### A. ASSISTANCE IN THE FIELD OF ENVIRONMENT

#### 1. POLAND — ENVIRONMENTAL PROTECTION PROGRAMME

The short-term aim of the programme is to help Poland develop its **environmental monitoring capacity** and finance projects designed to **reduce emissions** of pollutants, improve water quality and nature protection, and treat waste. The programme will involve:

- a) the setting-up of a **fund to finance projects** concerning air and water pollution, treatment of waste and the protection of natural sites;
- b) participation in the **Project Implementation Unit** set up by the World Bank in the ministry concerned.

Contact: MINISTRY OF ENVIRONMENTAL PROTECTION, Environment Coordination Unit, Mr S. Sitnicki (Director), ul. Walwelsk 52/54, PO-00-922 Warszawa, Tel.: (48) 22 25.41.41/25.88.29, Tlx.: (48) 22 81.28.16/81.71.57, Fax.: (48) 22 25.33.55.

#### 2. HUNGARY — ENVIRONMENTAL PROTECTION PROGRAMME

The short-term objective is to improve Hungary's **capacity to monitor the quality of air** and water and to give immediate financing for measures to improve waste disposal, regenerate the ecosystems of lakes, reduce emissions of pollutants and support training in environmental protection. The programme provides for:

- a) a **fund to finance projects** in the areas referred to above;
- b) the setting-up of a **unit** within the ministry to **administer the programme**;

Contact: MINISTRY OF ENVIRONMENT, Mr A. Diosi (Director), Fö utca 44-50, H-1011 Budapest, Tel.: (1) 135 5991, Fax.: (1) 136 2198

#### 3. EXTENSION OF PHARE TO FURTHER COUNTRIES IN EASTERN EUROPE

Following the decision to **extend the PHARE Programme** (see article on page 4), roughly 25% of the new provisions of 200 million ECU have been set aside for **environmental projects** in Eastern Germany, Czechoslovakia and Bulgaria.

#### 4. COMMUNITY PARTICIPATION IN THE REGIONAL ENVIRONMENT CENTRE BUDAPEST

In July 1989 the President of the USA proposed that a Regional Environment Centre should be set up in Budapest. This centre has meanwhile opened as an independent, apolitical, non-profit-making organization to **help Eastern and Central European nations to solve their environmental problems**. It will sponsor and support seminars, workshops, exhibitions, training courses, exchanges and study awards, and administer and publish a collection of information on the environment. Provision for close liaison with the future Community **environment agency** has been arranged (see I&TT, 3/90, page 10). The CEC will subsidize the new centre with 2 million ECU in 1990.

Contact: THE REGIONAL ENVIRONMENTAL CENTER, Miklos ter 1, 1035 Budapest, Hungary, Tel.: (36) 1 168-6284.

**General information on the environmental operations** above can be obtained from: Mrs S. Motard or Mr P. Bourel de la Ronçière, DG XI/C/1, BREY 10/240, 200, rue de la Loi, B-1040 Brussels, Fax.: (32) 2 235.01.44.

### B. ASSISTANCE IN THE FIELD OF INDUSTRY

#### 5. POLAND — PROGRAMME OF BASIC TECHNICAL ASSISTANCE FOR THE PRIVATIZATION AGENCY

The **privatization agency** will be responsible for drawing up legislation and establishing the necessary procedures and conditions for an **orderly and equitable privatization** of the 6000 state-held companies in Poland. The agency will have a double role — presentations for privatization and privatization itself, and creation of a securities market.

Contact: Foundation for Ownership Changes, Ul. Mysia 5, PO-Warszawa, Tel.: (48) 22 28.32.61.

#### 6. HUNGARY — MODERNIZATION OF THE FINANCIAL SYSTEM

The Community will finance part of the technical assistance and institutional support.

Contact: Mr Ipper, Director of the International Development Institution, National Bank of Hungary, Szabadsag-ter, 8-9, H-1850 Budapest, Tel.: (36) 1 153.04.18

**Further operations** concern the **TEMPUS** Transeuropean Mobility Programme for University Studies and **ACE** Programme (Cooperation in the field of economic research), (see on both initiatives I&TT, 3/90, pages 6-7) and a sectoral import programme for **animal feeds** (Poland).

## THE CEC BEGINS EXPLORATORY DISCUSSIONS ON THE ASSOCIATION AGREEMENTS WITH HUNGARY, CZECHOSLOVAKIA AND POLAND

The Council also held a policy debate on the Commission communication concerning the **future association agreements** envisaged as the second stage in **EC relations with Central and Eastern European countries**. The Council welcomed the Commission's initiatives in this field and allowed the Commission to proceed, fully informed as to the

positions of the Member States, with **exploratory discussions** that it proposes first to hold with Poland, Czechoslovakia and Hungary. The Commission will submit specific draft negotiation directives for each of the countries concerned at a later stage. Contact: Mr P. Guggenbuhl, CEC, DG I, L 86/3/45, Fax.: (32) 2 235.97.23.

## MANAGEMENT CONGRESS — EAST MEETS WEST STRATEGIC MANAGEMENT IN AN INTERNATIONAL PERSPECTIVE

22-25 October 1990 — Prague

The conference offers a chance to explore the new **opportunities** for **international business cooperation** and to become acquainted with the current conditions for the establishment of East-West joint ventures.

Contact: Dr A. Landa, House of Technology CSUTS, Gorkého Náměstí 23, 11282 — Prague 1/Czechoslovakia, Tel.: (422) 291 629-294 118, Fax.: (422) 295 731.



## PROSPECTS FOR CONTINUING EDUCATION AND TRAINING COOPERATION BETWEEN WESTERN AND EASTERN EUROPE

BERLIN — 14.-15.03.1991

**Continuing education and training** will be required to fulfill a range of new tasks in the light of the political and economic changes in Europe. It will also be of outstanding importance for **cooperation between Western and Eastern Europe**. This conference is organized by CEDEFOP, the European Institution for continuing education.

Information can be obtained from: NOVUM GmbH, Mommsenstrasse 71, DW-1000 Berlin 12, Tel.: (30) 8 83.70.24/25, Fax.: (30) 8 83.47.88.

## ADT ANNUAL CONFERENCE 1990 EAST-WEST COOPERATION BETWEEN INNOVATION CENTRES

4-6 NOVEMBER 1990 IN BERLIN (EAST AND WEST)

Participants from 13 countries, including the USSR, the USA and Nigeria, have registered for this conference. Early registration is strongly recommended — and not only to qualify for a special discount. Hotels in Berlin are booked up, and it is extremely difficult to find accommodation at short notice. The **foundation of new technology centres in Eastern Europe** will be an important topic of discussion. EC Commissioner Schmidhuber will set out the Community policy towards the countries of Central and Eastern Europe. Some of the sessions will be in English.

Contact: Mr H. Fiedler, ADT (Association of German Technology Centres), Gustav-Meyer-Allee 25, D-W-1000 Berlin 65, Tel.: (49) 30 469.41.57, Fax.: (49) 30 463.30.95.

## ASSOCIATION OF SCIENCE PARKS IN THE CSFR

The **Association of Science Parks in the CSFR** has been founded recently in Prague to encourage the creation of a network of technological transfer centres and the establishment of innovative parks in various regions of Czechoslovakia.

Contact: Mr Pavel Svejda, Society of Science Parks, Lopatecká 13, 140 00 Prague 4, Czechoslovakia, Tel.: (42) 2 43.92.51, Fax.: (42) 2 49.66.19.

**NETT'S SECOND INTERNATIONAL CONFERENCE  
ENVIRONMENT AND EASTERN EUROPE  
NEW POSSIBILITIES FOR INDUSTRIAL PARTNERSHIP**

**LYON — 23.11.1990**

In the years to come, industry in Eastern Europe will see important investments for modernization and reconstruction. These countries will be investing in **new and modern technologies taking into account environmental aspects**. However, few Eastern European companies, are able to supply all the environmental technologies that are required to respond to this new challenge. **Joint ventures, venture capital and partnerships** are key structures that are becoming more and more part of the dynamic strategy of small and medium-sized companies. This Second International Conference organised by NETT will allow you to answer imminent questions:

- Why a partnership?
- How to manage a partnership?
- How to develop synergies?
- What does Eastern Europe need?
- Who to contact in Eastern Europe?
- Which strategy to apply to these new markets?

The conference will be held during the **Pollutec 90 Fair**.  
Contact: Mrs M.C. Nas, NETT, 207, Av. Louise, B-1050 Brussels, Tel.: (32) 2 645.09.40, Fax.: (32) 2 646.42.66.

✂ .....  
Order form — Please send me the programme of the second NETT Conference

Name: .....

Organisation: .....

Address: .....

Postal Code: ..... Town: .....

Please return to Mrs Nas (see above)

✂ .....

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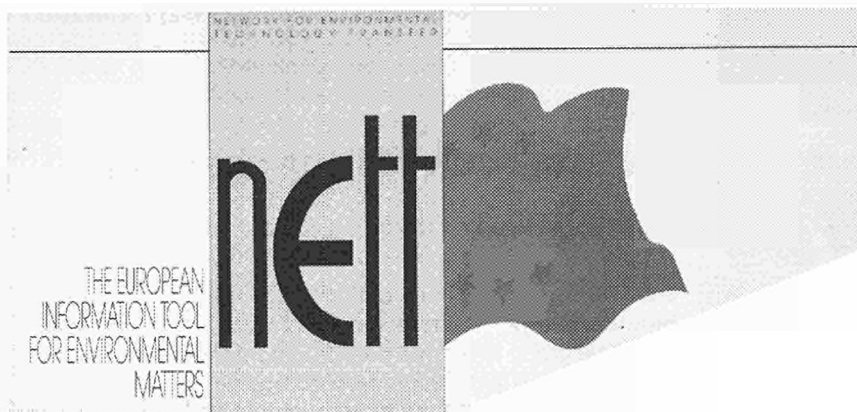
## POLLUTEC 90

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Tél: (1) 47 42 92 56 - Fax: (1) 42 66 14 28  
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**NETT — INFORMATION TRANSFER FOR ENVIRONMENTAL PROTECTION:  
THE KEY TO CLEAN TECHNOLOGY**



The EC Commission has created a **network for environmental technology transfer (NETT)**. NETT is the European instrument for **information on environmental matters**. Constituted as an international association, NETT makes available to decision-makers the following three **services: computerised data bases, a personalised and 'tailor-made' service for specific requests, and a 'meeting' service** (see also I&TT, 3/90, page 9). The **NETTLEX newsletter** provides regular information on CEC environmental legislation and the corresponding decision-making process at Community level.

## ENVIRONMENTAL ORGANISATIONS CALL UPON GOVERNMENTS TO ACT FURTHER TO NEW SCIENTIFIC DATA FROM IPCC

The 4th plenary session of the IPCC — Intergovernmental Panel on Climate Change — adopted a report according to which global warming could be more serious than expected, its growth being exponential. Mr **A. Meyer**, Climate and Energy Program Director for the Union of Concerned

Contact: World Meteorological Association, P.O.Box 2300, CH-1211 Geneva 2

Scientists, expressed the views of 13 environmental groups from Africa, Europe and North America and stated: 'consensus has been reached on the science and urgency of global warming; the threat is real, and further delay is unacceptable.'

## R&D PROGRAMMES TO STOP GLOBAL CLIMATE CHANGE

To solve the problem of **climatic change**, intensive international cooperation is needed. At a global level, the EC has taken a very active part in the negotiation and conclusion of international agreements on environmental problems such as the greenhouse effect or the protection of the ozone layer.

Currently, EC research and development programmes in the fields of the environment and energy, such as STEP, EPOCH

(see I&TT, 2/90, page 5), MAST (see page 18), JOULE (see page 23), deal with global change issues (climate modelling, ocean circulation, stratospheric ozone acidification, development of renewable energies, etc.). Funding of these actions is increasing under the 1990-1994 Framework Programme, reinforcing considerably the coordination of research throughout Europe and facilitating European participation in the worldwide efforts necessary in this field.

## PROGRAMME PROPOSED TO DEVELOP REGULAR OFFICIAL STATISTICS OF THE ENVIRONMENT

The CEC has proposed to develop a programme of **regular official statistics in the environment**. Its objective is to provide a set of regular key environmental information supplied by the official statistical services of Member States. It will be designed to meet the Community's needs in the area of environmental policy. It will take account of work on environment

statistics carried out by other Community bodies and by international organizations. It will prepare appropriate Community legislation governing the furnishing of data by Member States. Contact: Mrs G. Hill, JMO, C5/85, L-2920 Luxembourg, Tel.: (352) 4301-3296. Fax.: (352) 4301-3015 (see also OJ, C209, of 22.8.90).

## RESULTS OF THE THIRD CONFERENCE ORGANISED BY THE CEC ON THE PROCESSING OF RADIOACTIVE WASTE



Mr L. Brinkhorst, Director General of DG XI (Environment) opening the congress

The third conference on the processing and disposal of **radioactive waste** organised by the EC took place from 17 to 21 September in Luxembourg. The aim of the conference was to present the results of the five year programme (1985-1990) in this area. Those attending the conference — for the most part members of the international scientific community — discussed several topics of the 3rd five-year programme, i.e. management scenarios for reactors, and treatment and conditioning of waste from low- and medium-level activities.

Contact: Mr L. Cecille, CEC, DG XII/D/2, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.75.88, Fax.: (32) 2 236.20.06.

## CEC/USA AGREEMENTS ON THE ENVIRONMENTAL CONTROL OF CHEMICALS AND BIOTECHNOLOGY

Representatives of the CEC and the US government have concluded important agreements on the **environmental control of chemicals and biotechnology**. They have decided to hold consultations in early January 1991. The specific areas for immediate cooperation in the area of chemicals include: efforts to test and assess existing chemicals, joint efforts in developing testing of CFC substitutes and a commitment to improve the method of risk assessment for chemicals

and hazard communication systems. As regards **biotechnology**, it was decided to establish a permanent technical group which will hold its first meeting before the end of the year, and to develop methodology for the identification, detection and monitoring of organisms in the environment.

Contact: Mr G. Del Bino, CEC, DG XI, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.54.43.



## ENVIRONMENT AND FISCAL INSTRUMENTS: EC TO DEBATE 'GREEN' TAX PROPOSALS

A new CEC communication on the **use of economic and fiscal instruments in the EC environmental policy**, drafted under the responsibility of Commissioner **Carlo Ripa di Meana**, was discussed at an informal meeting of the environment ministers in Rome on 22.9.1990. The document, which is expected to relaunch the debate and help define priorities for Community action in this field, is based on a **study** conducted by the Commission.



CEC Commissioner C. Ripa di Meana

The communication states that the **potential impact of economic and fiscal instruments is far from being exploited at present**. If well conceived, economic instruments are effective in changing behaviour. At present, the predominant role of tax systems is to produce revenue; the situation should evolve into a marked strengthening of the **incentive function** (economic effectiveness) of taxes.

The document proposes EC commitment to the **development of economic and fiscal instruments for the following problems**:

**1) Greenhouse effect and energy consumption.** The communication proposes new taxation systems for energy pro-

ducts and the introduction of a specific tax on CO<sub>2</sub> in order to guarantee a reduction in energy demand in the future.

**2) Destruction of the ozone layer** and use of CFCs, for which the institution of a tax could be envisaged.

**3) Water pollution with oxygen-demanding and other substances.** A Community framework should be developed for water pollution charges in order to guide Member States in the examination and development of their national programmes.

**4) Discharges of nutrients by agriculture.**

**5) Atmospheric pollution** by emissions of SO<sub>2</sub>, NO<sub>x</sub>, particulates and VOC.

**6) Aircraft noise.**

**7) Road traffic and air pollution.** The document recommends the introduction of economic instruments to reinforce the technical regulation measures already adopted in the context of Community legislation and also with a view to additional and more stringent measures relating to direct regulations.

**8) Household and industrial solid waste.** The CEC wishes to promote and develop economic instruments that change the relative prices of prevention, re-use, recycling, treatment, incineration and disposal in order to exploit the large potential for prevention and recycling.

All of these charges must be integrated into a management system which controls hazardous waste movement 'from the cradle to the grave' (to prevent improper and possibly unlawful disposal). Economic instruments should also be compatible with the rule of treatment of waste as close as possible to its source. An EC Council in Brussels on 21.12.1990 will review progress on the initiative.

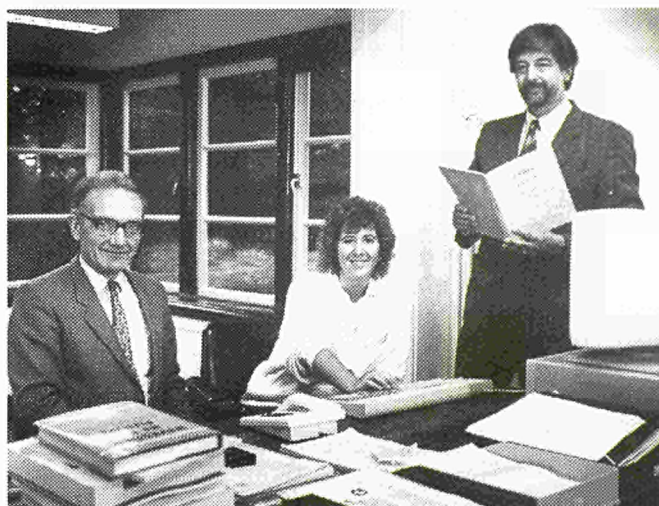
Contact: Mr G. Schneider, CEC, DG XI/A/4, BREY, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 235.16.82, Fax.: (32) 2 235.01.44.

## EERO, THE EUROPEAN ENVIRONMENT RESEARCH ORGANISATION, MOVES INTO TOP GEAR — NOW FULLY OPERATIONAL

In 1987, scientists from various European countries founded EERO. The aim is to promote the **most effective use of resources for environmental research in Europe** and in neighbouring countries. EERO became fully operational in 1990 as a non-profit-making, non-political foundation. It seeks to provide collaborative research and training opportunities, initiate new interdisciplinary research groups, catalyse the evolution of new research networks and facilitate the rapid spread of new knowledge.

EERO has decided to focus its **initial efforts** on the transport and fate of chemical pollutants, ecological impacts and remedial measures. EERO grants fellowship awards and organizes advanced laboratory courses and an annual symposium. Later, additional activities will include training centres, research networks, policy advisory committees, an assessment unit, etc.

Contact: Dr J. V. Lake, EERO, General Foulkesweg 70, NL-6703 EW Wageningen, Tel.: (31) 8370-84817, Fax.: (31) 8370-84818.



J. V. Lake (Director), P. Jonkhout (Secretary), Prof. A.G.B. Zehnder (Member of the board)

## SEVENTH CEC REPORT ON 1988 BATHING WATER QUALITY

The EC has published its report on the quality of bathing water in the EC. The report fulfills a legal obligation set out in the **1976 Directive on bathing water**, which obliges the Member States to submit to the CEC regular reports on the quality of water in their bathing areas. The study states that, in spite of an apparently considerable improvement in many of the EC's most frequented beaches since the entry into force of the Directive, there are **still too many beaches that need cleaning**. CEC Environmental Commissioner, **Carlo Ripa di Meana**, feels that efforts must be made to this effect

and he said, 'European citizens have the right to be able to bathe in clean water. Fifteen years after the adoption of the Community Directive on bathing water, everyone must make the necessary effort to apply it correctly. This will also benefit the tourism industry, a vital sector of the economies of our countries.'

A copy of the seventh report on 1988 Bathing Water Quality can be obtained from: Mr J. Costa, CEC, DG XI, BREY, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.49.32, Fax.: (32) 2 235.01.44.

## JOINT POSITION ON THE DIRECTIVE ON BATTERIES AND ACCUMULATORS

The Council has adopted a joint position on the draft directive relating to **batteries and accumulators containing certain dangerous substances**. The directive is aimed at encouraging the recycling or controlled elimination of used batteries containing dangerous substances. It also aims at encourag-

ing the marketing of batteries containing only small amounts of heavy metals and other dangerous and/or polluting substances.

Contact: Mr J.M. Junger, CEC, DG XI/A/3, 200 rue de la Loi, B-1040 Brussels, Tel.: (32) 2 235.54.42, Fax.: (32) 2 235.01.44.

## THE CEC PROPOSES A REGULATION ON CONTROLLING TRANSFERS OF WASTE

At the initiative of Commissioner **Carlo Ripa di Meana** (environment), the CEC has proposed to the Council a regulation concerning the **monitoring and the control of waste transfers** in the Community and at its borders. This draft aims at strengthening the existing regulation in the light of the com-

pletion of the large market without internal frontiers: '1992 must not be a tourist visa for waste earmarked for final disposal in the Community', Mr Ripa di Meana commented. Contact: Mr J.M. Junger (see address above)

## AGREEMENT ON CFC REDUCTION

**ISOPA**, the European Isocyanate Producers Association, has signed an agreement with the EC on the reduction of fluorocarbons (CFCs) in foam plastics. An EC recommendation calls for a **reduction of CFCs** in the foam plastics industry by at least 35 % by the end of 1991 and at least 65 % by the end of 1993 compared with 1986 consumption. Following major R&D programmes by ISOPA members totalling over 70 million ECUs during 1988/89, a variety of new technologies

have been developed which will allow the industry to gradually eliminate CFCs in all products. ISOPA brings together major companies such as BASF, Bayer, Dow Chemical, ICI, Montedison-Petrol-Chimica and Royal Dutch/Shell.

Contact: Mr. Strongylis, CEC, DG XI/A/2, BREY, 200, rue de la Loi, B-1040 Brussels, Tel.: (32) 2 235.72.60, Fax.: (32) 2 235.01.44.

## MEASURES NEEDED TO RESTORE ECOLOGICAL BALANCE IN THE BALTIC SEA133

The countries bordering the Baltic Sea, Norway, Czechoslovakia and the Commission of the EC, meeting in conference in Ronneby, have decided to create an **action group** responsible for preparing by the end of 1991 the **measures needed to restore ecological balance in the**

**Baltic Sea**. The final document affirms the need for a 50 % reduction in the dumping of toxic substances, particularly phosphates, nitrates and nitrogenous products such as heavy metals, by 1995.

Contact: Mr J. Vaccarezza, CEC, DG XI, BREY, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235 51.08, Fax.: (32) 2 235.01.44

## HARMONIZING REPORTS ON THE IMPLEMENTATION OF ENVIRONMENT DIRECTIVES

The CEC has submitted to the Council a proposal of a directive, the purpose of which is to **rationalize and improve the dispositions on the transmission of information and the publication of reports** concerning certain Community Direc-

tives on the **protection of the environment**. The proposal foresees regular reports at constant intervals of a number of environmental directives (see OJ, C 214 of 29.8.90).

## DIRECTIVES ON THE PROTECTION OF NATURAL HABITATS AND WILD FAUNA

The CEC has published Supplementary Annexes to the proposal for a Council Directive on the **protection of natural and semi-natural habitats and of wild fauna and flora** (see I&TT,

3/90, page 10) in OJ C195 of 3.8.90. Contact: Mr R. Klein, CEC, DG XI/B3, BREY, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.28.98, Fax.: (32) 2 236.27.26.

## PROPOSAL FOR A PROGRAMME ON CONTROLLED THERMONUCLEAR FUSION A CHANGE IN 'JET' AND THE CONTINUATION OF THE INTERNATIONAL 'ITER' PROJECT

The CEC has adopted three proposals to the Council in the area of **thermonuclear fusion**, on the initiative of Vice-President **Pandolfi**, namely: **1) A specific R&D programme in the area of controlled thermonuclear fusion (1990-1994)**. This proposal is the fifteenth and last aimed at implementing the Third Research & Development Framework Programme 1990-1994. **2) The change in the statutes of the joint venture JET** (Joint European Torus) so as to extend the project up to 1996. **3) A negotiation directive for continuing cooperation between the EC, Japan, the United States and the USSR concerning the project for an international thermonuclear experimental reactor (ITER).**



CEC Vice President F. M. Pandolfi

The long-term objective of the Community action under way for many years in the area of **thermonuclear fusion** is the realization in the middle of the next century of **prototype reactors** that are **'safe and not harmful to the environment'**. The three new proposals are related. A phased strategy is being contemplated to attain the objective of commercial operation. **The first stage**, corresponding to the research currently being conducted by **JET**, consists of providing evidence of the scientific feasibility of fusion. **The second stage** provides for the construction of an **experimental reactor, 'DEMO'**. The priority of the new specific fusion programme is the establishment of the scientific and technical basis for the construction of an **experimental fusion reactor** and the preparation of industry. The extension of **JET** to 1996 should allow support to be provided for the research activities of the second stage. The experimental reactor should allow self-maintained and long-duration fusion reactions to be produced. Overall Community financing in this area totals 458 million ECU up to the end of 1994.

Contact: Mr C. Maisonnier, CEC, DG XII, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.73.15, Fax.: (32) 2 235.01.45.

## REPORT ON THE FUSION PROGRAMME NOW AVAILABLE

In January 1990 a **Fusion Programme Evaluation Board** was set up by the Commission in order to conduct an independent evaluation of the Community's Fusion Programme. Its report, which was transmitted to the Council of Ministers and the European Parliament in August, is

now available.

Contact: Mr R. Saison, CEC, DG XII/1, SDME 01/127, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.40.62, Fax.: (32) 2 236.20.07.

## INVITATION TO TENDER FOR STUDIES AND TECHNICAL ASSISTANCE SERVICES

### 1. TECHNICAL ASSISTANCE WITHIN THE FRAMEWORK OF THE ENVIRONMENTAL PROGRAMMES ENVIREG/MEDSPA

The task comprises to enable regional and local administrations to have rapid access to independent, high-quality expert appraisals through an open list of qualified experts from the public and private sectors held by the contractor. **Contact:** OJ, C 127 of 12.9.1990, CEC, DG XVI, Bâtiment Court Saint-Michel, 5/161, 200 rue de la Loi, Fax.: (32) 2 235.46.28 (deadline for tenders 22.10.1990).

### 2. STUDY OF FUTURE DEVELOPMENTS IN THE REGIONS OF THE WESTERN MEDITERRANEAN

The study should provide the Commission with a picture of the long-term prospects: exploitation of regional factors for growth, identification of economic linkages in order to improve the effectiveness of policy action. **Contact:** CEC, DG XVII/A/1, 05/126, 200 rue de la Loi, B-1049 Brussels, Tel./ (32) 2 235.71.01, Fax.: (32) 2 235.01.49 (see OJ L 229 of 14.9.90).

### 3. STUDY OF THE ECONOMIC AND TECHNICAL OUTLOOK FOR RENEWABLE ENERGY SOURCES IN THE EC AND EASTERN EUROPE

Contact: Mr U. Tiberi, DG XVI, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.22.81; deadline: 15.11.1990 (see OJ C 239 of 25.9.90).

### 4. CONSULTANCY IN THE FIELD OF THE INTERNAL MARKET AND INDUSTRIAL AFFAIRS, AND PARTICULARLY PUBLIC PROCUREMENT

In connection with its programme for opening up the internal market in public procurement, the CEC is planning to conclude contracts for services, consultancy or studies. **Contact:** Mr W. Stracke, CEC, DG III/B/3, 200 rue de la Loi, B-1049 Brussels; deadline: 9.11.1990.

## NEW RESEARCH PROGRAMMES ADOPTED

The Research Council of 24 June under the presidency of the Irish Minister of Science and Technology, Mr M. Smith, and with the participation of CEC Vice-President Mr F.M. Pandolfi, achieved the following results:

## RESEARCH PROGRAMME ON ANALYSIS OF THE HUMAN GENOME

This programme, with an appropriation of 15 million ECU, was definitively adopted. Its objective is the **use and improvement of new biotechnologies in the study of the human genome** for a better understanding of the mechanisms of genetic functions, as well as the prevention and treatment of human diseases. Optimum cooperation will be sought with the programmes of third countries and international organizations. Contact: Mr A. Dickens, CEC, DG XII, 200, rue de la Loi, B-1040 Brussels, Tel.: (32) 2 235.00.32, Fax.: (32) 2 236.30.24, (see also OJ, L 196 of 26.7.1990).

## 1990/1993 EURET PROGRAMME IN THE AREA OF TRANSPORT

The Council adopted its common position to submit to the European Parliament. Contact: Mr F. Fabre, DG VII, 200, rue de la Loi, B-1040 Brussels, Tel.: (32) 2 235.39.99, Fax.: (32) 2 235.01.33 (see also page 16).

## EUROTRA PROGRAMME FOR THE DEVELOPMENT OF AN OPERATIONAL SYSTEM OF AUTOMATIC TRANSLATION

The Council adopted the common position to submit to the EP. This programme constitutes the first step towards the development of an operational machine translation system of advanced design, capable of dealing with all official Community languages. Contact: Mr S. Perschke, CEC, DG XIII/B, JMO-B4/005, L-2920 Luxembourg, Tel.: (352) 4301-3423, Fax.: (352) 4301-2847, (see also OJ C 209 of 22.8.1990).

## FULL TEXTS OF THE SPECIFIC R&amp;D PROGRAMMES UNDER THE NEW FRAMEWORK PROGRAMME PUBLISHED IN THE OFFICIAL JOURNAL

Official Journal C 174 of 16.7.1990 contains the **full texts of proposals for 13 specific new R&D programmes** under the new R&D Framework Programme (see I&TT, 3/90, page 2-5).

They concern: **1.** information technologies, **2.** communications technologies, **3.** development of telematic systems in areas of general interest, **4.** industrial and materials

technologies, **5.** measurement and testing, **6.** environment, **7.** marine science and technology, **8.** biotechnology, **9.** agricultural and agro-industrial research, **10.** biomedical and health research, **11.** life sciences and technologies for developing countries, **12.** non-nuclear energies, and **13.** human capital and mobility.

✕

Order form: Please send me a copy of the OJ C 174 of 16 July 1990 (price ECU 12) in (please tick):

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## NUCLEAR FISSION PROGRAMME PROPOSED

At the initiative of Vice-President Pandolfi, the CEC has adopted its penultimate proposal for a specific research programme on **nuclear fission**, complementing the 13 programmes presented on 25 April last (see I & TT, 3/90/page 2). Community efforts will focus on two aspects determining the acceptance of nuclear energy and its support by public opinion, namely protection against radiation and the safety of reactors.

In the field of radioprotection the objective is to improve, through effective research, the knowledge of effects and risks linked to exposure to radiation, more particularly those

resulting from low doses, in order to elaborate appropriate **common protection standards and regulations**. Research will also focus on the **safety of containment** of radioactivity in case of nuclear accident. The total overall budget of the programme amounts to 199 million ECU for a 5-year period (1990-1994).

Contact: Mr S. Finzi, CEC, DG XII, ARTS 02/55, 200 rue de la Loi, B-1040 Brussels Tel.: (32) 2 235.15.18, Fax.: (32) 2 236 20.06. (see also OJ C 247 of 2.10.1990).

**COMMUNITY RESEARCH AND DEVELOPMENT PROGRAMMES**  
**DEADLINES FOR THE NEXT CALLS FOR PROPOSALS**

Programme	Directorate-General responsible	Deadline
<b>JEAN MONNET ACTION</b> — EUROPEAN INTEGRATION IN UNIVERSITY STUDIES (see page 26)	X	20.11.1990
<b>THERMIE</b> — PROMOTION OF ENERGY TECHNOLOGIES (see page 24)	XVII	07.01.1991
<b>HUMAN GENOME ANALYSIS</b> (see page 19)	XII	15.01.1991
<b>AGRICULTURAL RESEARCH PROGRAMME</b> (see I&TT, 3/90, page 20)	VI	31.12.1991
<b>DOSES</b> — STATISTICAL EXPERT SYSTEMS (see page 38)	OFF. STAT.	no deadline
<b>TECHNICAL COAL RESEARCH</b> (Contact Mr J. K. Wilkinson, CEC, Tel: (32) 2 235.55.76; see also OJ C 176 of 17.7.1990)	XVII	01.09.1991
<b>BRIDGE</b> — BIOTECHNOLOGY OF ANIMALS CELLS (see OJ C 121 of 10.8.1990, Fax: (32) 2 235.53.65)	XII	31.12.1990
<b>SPRINT</b> — SPECIFIC PROJECTS (see page 47)	XIII	7. 12. 1990
<b>ACE</b> — ENVIRONMENTAL DEMONSTRATION PROJECTS (see I&TT, 3/90, page 9)	XI	30. 06. 1991
<b>SCIENCE</b> — SCIENTIFIC COOPERATION (see page 21)	XII	no deadline
<b>SPES</b> — ECONOMIC RESEARCH (see page 16)	XII	no deadline
<b>VALUE</b> —EXPLOITATION OF R&D RESULTS (see page 38)	XIII	no deadline
<b>ERASMUS</b> — INTERUNIVERSITARY COOPERATION PROGRAMME (ICP)	TFHR	31.10.1990
— STUDENTS NOT PARTICIPATING IN AN ICP (see page 26)		01.01.1991
<b>LINGUA</b> — CONTINUING EDUCATION	TFHR	31.01.1991
— EXCHANGES (see page 26)		01.04.1991

Application forms can be obtained from the Directorate-General concerned (Commission of the European Communities, DG ....., 200, rue de la Loi, B-1049 Brussels). TFHR stands for Task Force Human Resources. OFF. STAT. stands for Office for statistics.

Programme	FORTHCOMING CALLS	Call expected
<b>EURET</b> — R&D ON TRAFFIC (see page 16)		November 1990

Pending the decision on the new specific programmes under the third R&D Framework Programme (see page 2), further calls for proposals might be launched by Spring 1991. The information above is a sort of early warning system. The dates indicated may change and are not definitive. 'I&TT' declines all responsibility for any changes. Proposals should be prepared well in advance of this deadline in order to avoid last-minute problems. Proposers should consult the programme managers for advice on questions of presentations.

**TRAINING COURSE ON THE OPTIMISATION OF RADIOLOGICAL PROTECTION IN  
THE DESIGN AND OPERATION OF NUCLEAR AND INDUSTRIAL FACILITIES**

19 — 23 NOVEMBER 1990, SACLAY, FRANCE

The aim of this new course organised by the Commission of the European Communities is to present tools and structures that can help in implementing the concept of optimisation in radiological protection at the practical level. The course is directed at all those associated directly or indirectly with designing and implementing radiological protection programmes in nuclear and industrial facilities, e.g. plant designers, system planners, maintenance operation planners, operation managers, engineers and health physicists.

**Further information may be obtained from:** CEC, DG XI/A/1, Plateau du Kirchberg, L-2920 Luxembourg, Tel.: (35) 2 4301-6380, Fax.: (35) 2 4301-6280.

## DAWN OF A NEW ERA IN EUROPEAN TELECOMMUNICATIONS

### MEMBER STATES NOTIFIED OF TWO NEW DIRECTIVES

The Community Member States have now received formal notification of **two directives in the telecommunications sector** which mark the beginning of a **new era** in European telecoms and the creation of a single market in this sector. The two measures are interrelated. **Liberalisation** will for the first time open up unlimited opportunities for the telecommunications industry, business users and the individual consumer as the range of services expands on a Community basis thanks to the harmonisation of use access conditions. The directives are: the **open network provision (ONP)**

**framework directive**, which facilitates access of private companies to the public networks and of certain public telecommunications services, and the Article 90 telecoms **services directive**, which establishes the right for independent undertakings to offer new services on the telecommunications networks.

Contact: Mr J. Rosenbaum, CEC, DG XIII-E, BREYDEL 06/83, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.92.35/235.05.60, Tlx.: 21877 COMEUR B, Fax.: (32) 2 236.27.23 (see also OJ L 192 of 24.7.1990)

### NEW PROPOSAL FOR A COUNCIL DIRECTIVE ON CORDLESS TELECOMMUNICATIONS

The CEC has published its proposal for a directive on the coordinated introduction of digital **European Cordless Telecommunications** in OJ C 187 of 27.7.1990 and an amended pro-

posal for a Council Directive on the approximation of the laws of the Member States concerning telecommunications terminals, including the mutual recognition of their conformity.

### LAUNCH OF A NEW COST ACTION ON SPEECH RECOGNITION VIA TELEPHONE LINES

The Working Party of Senior Officials on European Cooperation in the field of Scientific and Technical Research (**COST**) has approved a new COST action in the **area of telecommunications**, related to **speech recognition via telephones lines**. The main goal of the action is to coordinate and promote European research in the area of methods of

speech recognition in telecommunications and to cooperate on the identification of specific problems concerning speech recognition in telephony.

Contact: Mr E. Ballabio, CEC, DG XIII-D-1, BRE 7/223, 200 rue de la Loi, B-1040 Brussels, Tel.: (32) 2 235.77.55, Fax.: (32) 2 235.68.28.

### GUIDE ON HOW TO CONNECT TO THE FRENCH TELETEL NETWORK

Written in the national language(s) of each Member State of the EC, this Guide explains the **procedures for connection to the French Teletel network** from the videotex systems of other Member States.

It is available free of charge from F.L.A Consultants, 27 rue de la Vistule, F-75013 Paris, Tel: (33) 1 45.82.46.04, Fax.: (33) 1 45.82.46.04, Tlx.: 205 231 FLA.

### INSIS — INTER-INSTITUTIONAL INTEGRATED SERVICES INFORMATION SYSTEM

The INSIS Programme concerns the use of **new electronic technologies for information exchange between the Member States and Community institutions**. INSIS includes horizontal programmes to prepare the technical and industrial environment, and pilot projects to evaluate the introduction of new technologies in administrations. The pro-

gramme will ensure the establishment of European standards and provide support for the development of user-oriented telematics products (early stage), as well as for the communications services at European level.

Contact: Mr E. Peeters, CEC, DG XIII, BRE 07/37 200 rue de la Loi, B-1049 Brussels, Fax.: (32) 2 235.02.99.

### INFORMATION ON OSI — OPEN SYSTEMS INTERCONNECTION

SPAG is a consortium of leading European computer and telecommunications companies whose mission is to create a truly open global market based on **harmonised OSI standards, OSI testing** (both conformance and interoperability), **accreditation of test centres and certification of OSI conformant products**. The **SPAG newsletter** focuses on all of these subjects.

Contact: SPAG, Mrs K. Garside, 149, av. Louise, Box 7, B-1050 Brussels, Tel.: (32) 2 535.08.11, Tlx.: 20307 SPAG B, Fax.: (32) 2 537.24.40.



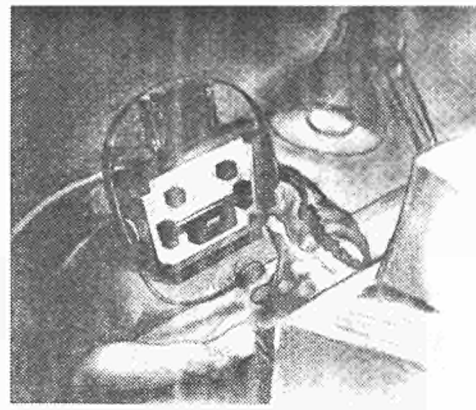
## A SERIES OF NEW ECHO INITIATIVES WILL ACCELERATE ACCESS TO INFORMATION SERVICES

### 1. THE EUROPEAN COMMISSION'S NATURAL LANGUAGE PROJECT

Under the **IMPACT Programme** an innovatory service on **ECHO**, the CEC Host Organization, has been developed, allowing inexperienced users to type in their queries, and have the question clarified and understood by the computer and answered. The new ECHO system, allows questions to be formulated in a **natural way as if conversing via a keyboard (not via a special command language)**. The user of the new online service can type in such questions as: Where can I get information on agriculture in Italy? Where do I find out about 1992 and business opportunities? A **Knowledge Transfer meeting** to present the results of the project will be held in **Luxembourg on 29 October**. Journalists are cordially invited to attend.

### 2. SPEAKING TO A COMPUTER: 'MAX' REPLIES TO YOUR QUERIES

Under its **IMPACT** programme, the CEC has introduced a **talking robot, called Max**, who can provide a friendly voice to people who phone ECHO, the European Commission Host Organization. Max can read from a whole database full of information about the European Community without being pre-recorded. He can understand three European languages. The inquirer simply dials up a telephone number and follows the instructions from Max. The caller can select the **following topics**: News about ECHO, the ECU exchange rates, EC programmes or institutions, terms in information technology, or the addresses of the Commission's press and information offices. Max will also be presented at the **Knowledge Transfer meeting** to be held on 29 October in Luxembourg (see above).



### 3. TED: BUSINESS OPPORTUNITIES BY FAX

Business people can now arrive at the office in the morning and find a fax listing new businesses opportunities. Such a service is now possible with **TED Fax**. Tenders Electronic Daily, TED, is a daily updated database **containing public tenders worldwide**. This is how it works. A businessman writes to ECHO and completes a form giving a profile of his company. He takes out a subscription to **TED Fax**. When a public tender requesting similar goods or services appears in the daily updated TED database, an automatic notification is made to the fax machine. ECHO is offering a **FREE trial** of 20 short-format tender faxes.

### 4. FIRST EUROPEAN FREEPHONE IS TO AN INQUIRY SERVICE ON THE EUROPEAN INFORMATION MARKET AND THE IMPACT PROGRAMME

The European Commission (DG XIII-B) is initiating the **first pan European Freephone service** to enable Community citizens to find the answers to their questions on the European information services market. The following telephone numbers are already available: **From Belgium 118456, From France 05906956, From Germany 0130823456, From Luxembourg 08003456**

### 5. ECHO: THE INNOVATIVE DATABASE HOST ORGANIZATION

The European Community's 324 million citizens need adequate information services to help them communicate and do business together. With nine national languages and a variety of information systems, this is not always easy. ECHO, the European Commission Host Organization, was therefore created and developed by the CEC, DG XIII, as an innovative instrument **to encourage the uptake and enhancement of information services**. In its role as a promotion tool for the European information market, ECHO **provides basic information** about Community information services in all the national languages of the Member States, supports users by giving guidance and training, and tests new advanced information. **ECHO databases cover four domains**: User guidance, Community research, market and business opportunities, the language industry.



**Information on these new ECHO initiatives:** ECHO, P.O. Box 2373, L-1023 Luxembourg, Tel.: (352) 588041, Fax.: (352) 488040.

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 2. Max, the talking computer   
 3. Natural Language service   
 I wish to attend the **Knowledge Transfer meeting** on 29 October 1990 in Luxembourg. Please send me details.  Address: \_\_\_\_\_  
 Please return to ECHO (see address above) Postal Code: \_\_\_\_\_ Town: \_\_\_\_\_

## INFORMATION MARKET OBSERVATORY: OVERVIEW OF THE VIDEOTEX MARKET IN 1989

The Information Market Observatory 3/90 (JMO) provides an overview of current trends in the EEC videotex market. The main findings are as follows: Teletel (F) still holds the most important market share. Use in Germany and Italy and international traffic is growing steadily but remains limited. With over 86 million connect hours and an installed base of 5 000 000 minitels France still held the most important share of the European videotex market in 1989. Mass distribution of free

terminals has been an important factor of the success in Teletel. Several videotex network operators in other countries are now proceeding along similar lines.

Contact: Mr S. Lustac, CEC, DG XIII-B, JMO B4/016, L-2920 Luxembourg, Fax.: (352) 4301-2847 Tlx.: 3423/3446 COM-EUR LU.

Distribution of VIDEOTEX Traffic within the EEC in 1989



## DIRECTORY OF PUBLIC DATABASES PRODUCED BY THE CEC

The CEC is potentially one of the **biggest providers** (and users) of databases in the world. Of the 50 databases produced by the CEC, 33 are already open to the public. They cover almost all fields of Community interest, e.g. agriculture, environment, new technologies, law. This coverage has recently been enriched with **ECLAS** (Bibliographic database created by the CEC Central Library), **RAPID** (the CEC daily press-release service) and **INFORMARK** (online version of the Journal Information Market Review).

Copies of the directory (English or French) can be obtained from: Mr A. Berger, CEC, DG IX/F/4, ARLN 3/4, 200 rue de la Loi, B-1040 Brussels, Tel.: (32) 2 235.75.52, Tlx.: 21877 COMEUR B, Fax.: (32) 2 236.06.24.

## EURET: A SPECIFIC RESEARCH AND TECHNOLOGICAL DEVELOPMENT PROGRAMME IN THE FIELD OF TRANSPORT

### CALL FOR PROPOSAL PENDING

The completion of the internal market is inconceivable without a Community transport system capable of responding to the resulting increase in demand, in volume and qualitative terms, for all types of transport. In this context, **EURET** has three main objectives: **1) Optimum network exploitation** covering the following topics: Cost-benefit and multi-criteria analysis for new road construction, European rail traffic management conception, design and assessment of a vessel traffic management system, trials in automated air/ground data exchange for air traffic management systems in Europe and study on the controller working position in air traffic management in Europe. **2) Logistics** covering the following topics: Economic scenario and demand projections for freight transport of the Community, Economic and

technical research of the transfer of goods. Design and evaluation of rapid transfer, optimization of manpower in maritime transport and taking human factors into consideration in man/ship system. **3) Reduction of harmful externalities** covering the following topics: Improved methods for evaluating the road safety of car and trailer trains and assessment of the driving safety of possible truck and trailer combinations. A **call for proposals** will be launched in November 1990 with a February 1991 deadline.

Contact: Mr F. Fabre, CEC, DG VII/B/3, B-34 02/13, 200 rue de la Loi, B-1049 Brussels, Tel. (32) 2 235.39.99, Fax.: (32) 2 235.01.33, Tlx.: 21877 COMEUR B.

## SPES — STIMULATION PROGRAMME FOR ECONOMIC SCIENCES

The SPES programme aims to establish a European-level **cooperation** and **interchange network** between top-level **economists** (see OJ C 155 of 26.6.1990). The Commission has proposed opening up SPES to the EFTA countries (see OJ, C 148 of 16.6.1990). Further to a recent selection of proposals the following research projects receive financial support: **Industry and small firms** (an international comparison), **EUNETIC** (European research network on the

economics of technological change), **comparative applied econometrics**, **comparing labour markets**, **economic transformation of Eastern Europe** and **advanced studies programme in international economic policy**.

Contact: Mr R. Thomas, CEC, DG XII, MO75 04/24, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.47.07, Tlx.: 21877 COMEUR B, Fax.: (32) 2 236.33.07.

## DECISIONS OF THE 8th EUREKA CONFERENCE

EUREKA has just published EUREKA News N° 10, which is primarily devoted to the **results of the 8th EUREKA conference in Rome on June 1** (see I&TT, 3/90, page 13). A copy

of the report above can be obtained from: The EUREKA Secretariat, 19H, av. des Arts, Bte 3, B-1040 Brussels, Tel.: (32) 2 217.00.30, Tlx.: 29340 EUREKA B, Fax.: (2) 2 218.79.06.



## ESPRIT CONFERENCE WEEK 1990

Brussels, 12-15.11.1990

This year's **ESPRIT Conference** will be devoted to the results, achievements and new prospects of Information Technologies within the ESPRIT programme. Project results will be presented, accompanied by panel sessions and workshops on issues relevant to ESPRIT. During the **Information Technology Forum** on 15 November, a number of prominent speakers from industry, politics and science will address the Conference.

The Conference and IT Forum will be accompanied by an **exhibition**, in which more than 90 projects will demonstrate their results. Additional projects will participate via poster displays or videos. Facilities will be provided for evening meetings of delegates sharing common technical interests.

All sessions, except the IT Forum when simultaneous translation will be available, will be in English.

Contact: E.C.C.O., Rue Vilain XIII, 17a, B-1050 Brussels, Tel.: (32) 2 647.87.80, Fax.: (32) 2 640.66.97, Tlx.: 61434 SDRBRU B.



### ESPRIT 1989

#### ANNUAL REPORT NOW AVAILABLE

The **ESPRIT 1989** annual report gives information on progress in European research in **information technology**. It can be obtained from: Mr I. Collisson, CEC, DG XIII-A, BRE 10/191, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 236.20.67, Fax.: (32) 2 236.33.91, Tlx.: 21877 COM-EUR B.



## TELEMATICS IN ROAD TRANSPORT

### DRIVE CONFERENCE AND EXHIBITION

The DRIVE Programme of CEC-DG XIII is organising its **1st Conference and Exhibition**, both to be held at the Palais des Congrès, Brussels, 4 - 6 February 1991. More than 100 papers will be presented by the programme partners, while DRIVE projects will be presented at the Exhibition. The registration fee is FB 9000, (3 lunches, refreshments and prints of papers). The working language of the events is English.

DRIVE is the CEC Community R&D Programme in the area of **telematics in road transport**. It is currently in the second year

of its 3-year life. 71 projects in the programme are being carried out, with a subsidy of around 60 million ECU granted by the EC.

Contact address for the programme: F. Karamitsos, DRIVE Central Office, Rue de Trèves, 61, B-1040 Brussels, Tel.: (32) 2 236.34.49, Fax.: (32) 2 236.23.91. Contact address for registration for the Conference and Exhibition (**deadline 15/11/90**): CEC — DRIVE, Mr J.P. Scheins, C.C.A.B. — Office 4/4, Rue Froissart, 36, B-1040 Brussels, Tel.: (32) 2 235.87.35, Fax.: (32) 2 235.37.36.

## DEVELOPMENT OF LEARNING TECHNOLOGIES: DELTA AND BEYOND

18-19.10.1990 — THE HAGUE

The first major European **conference on collaborative industrial research and development in learning technology** will allow for the presentation of results of R&D cooperation carried out by transnational consortia under the EC's DELTA programme. Future prospects for R&D activities and programmes in the field of learning technology will be dealt

with in special sessions: Paedagogical Issues, Market Issues, Telecommunications, Artificial Intelligence, Multi/Hyper Media, Authoring Environment, Cross Cultural Dimensions. Contact: Educational Computing Consortium 'DELTA and BEYOND', PO BOX 217, NL-7500, AE Enschede, Tel.: (31) 53 33.33.67, Fax.: (31) 53 35.24.99.

### DELTA — DEVELOPMENT OF EUROPEAN LEARNING THROUGH TECHNICAL ADVANCE

DELTA seeks to apply **advanced information and telecommunications technology in education** and further education programmes and to develop tools and infrastructures to support distance learning. The areas of research are: learning systems research, development of advanced learning

technology, testing and validation, inter-operability and related factors.

Contact: Mr M. Rogers, CEC, DG XIII, TRE/002, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 236.35.05, Fax.: (32) 2 235.69.37.

## TRAINING AND MOBILITY GRANTS IN THE FIELD OF COMPETITIVENESS OF AGRICULTURE AND MANAGEMENT OF AGRICULTURAL RESOURCES

Applications are invited for **training and mobility grants** for periods of up to 3 months. The aim is to enable scientists to acquire new skills relevant to the above mentioned programme in a Member State other than where he or she normally resides.

The programme of work proposed by the applicant must fall within one or more of the **following sectors**: 1. Conservation and diversification; 2. Product quality; 3. Plant health, animal and welfare; 4. Socio-economic problems in backward regions and 5. Information dissemination.

Particular attention will be paid to non-food uses, quality improvement and environmentally friendly farming practices. Applications may be submitted at any time during the year. Selection will be 3 times a year. Financial conditions:

a) For a period of less than 2 weeks: Travel expenses and daily allowances will be paid, a posteriori.

b) For a period exceeding 2 weeks:

— **Junior level**: 1500 ECU/month minimum (university or equivalent degree)

— **Senior level**: 1800 ECU/month minimum (doctorate or at least four years of professional experience after completion of university studies)

The Commission may cover a limited number of expenses incurred by the host organizations.

For further information and for a copy of the application form, please contact: Mrs M. Wauters, CEC, DG VI F/II/3, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.67.44, Fax.: (32) 2 236.30.29.

## NEW PROJECTS SELECTED UNDER ECLAIR: LINKAGE OF AGRICULTURE AND INDUSTRY THROUGH RESEARCH

The ECLAIR programme is aimed at **improving the interface between agriculture and industry**. It co-finances applied but still 'pre-competitive' research in the field of agro-industries, including all kinds of primary production of biological resources and the related up-stream and down-stream industries. The first call for proposals led to 46 selected proposals, some of which were merged into joint

projects. The projects are dealing with vegetable oils, the production of unconventional lignocellulosic materials, diseases and nutrition of animals etc.

The list of projects and further information can be obtained from: Mrs S. Hardy, CEC, DG XII, SDME 02/19, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 236.13.13, Fax.: (32) 2 236.43.22.

## THE CEC PARTICIPATES IN THE EXPERIMENTAL PHASE OF THE 'HUMAN FRONTIERS' PROGRAMME LAUNCHED BY JAPAN

On a proposal by CEC Vice-President **F.M. Pandolfi**, the CEC has decided to participate in the experimental phase of the **'Human Frontiers' scientific programme (HFSP)**. The decision to participate fully in the programme will be reached at a later date in the light of the realization of the programme's objectives and the benefits the Member States have drawn from it.

This programme results from an initiative by the Japanese government. Its content and objectives were determined by an international committee of eminent scientists and must

now be defined in greater detail during the experimental phase which is underway. The objective of HFSP is to **promote basic research on the higher cerebral functions and biological functions** in order to elucidate the mechanisms of living organisms. In addition to its purely scientific value, its results will have a major impact on the environment, health, industry, etc.

Contact: Mrs J. Watford, CEC, DG XII/C/3, SDME R2/87, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.34.19, Fax.: (32) 2 236.30.25.

## MAST: MARINE SCIENCE AND TECHNOLOGY

The general objective of the R&D activities under the new Framework Programme (so far known under the name MAST) is to contribute to establishing a scientific and technological basis for the exploration, exploitation management and **protection of European coastal waters and the seas** surrounding the Community Member States. There are **three main**

**research areas**: Marine Science, Coastal Zone Science and Engineering and Marine Technology. The total appropriation proposed is ECU 104 million.

Contact: Mr. J. Boissonnas or Dr M. Weydert, CEC, DG XII-E, SDME 03/46, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 236.23.78, Tlx.: 21877 COMEUR B, Fax.: (32) 2 236.30.24.

## JUST PUBLISHED: ENGINEERING EDUCATION IN EUROPE

This publication provides information on the wide range of systems and establishments in the field of engineering training, and the considerable scope for contacts and exchanges.

Contact: SEFI, rue de la Concorde 51, B-1050 Brussels, Tel.: (32) 2 512.17.34, Fax.: (32) 2 512.32.65.

## CALL FOR PROPOSALS UNDER THE HUMAN GENOME ANALYSIS PROGRAMME

The areas for project proposals are: Ordered clone libraries mapping, data handling and databases and improvement of the methods and basis for the study of the human genome. Deadline for submission of proposals: 15.1.1991.

Detailed information and the necessary application forms are provided in the information package which can be obtained from: CEC, DG XII/F/6, SDME 2/39, 200 rue de la Loi, B-1049, Fax.: (32) 2 235.53.65 (see also page 12).

## LIST OF GENOME RESEARCH PROJECTS UNDER CEC PROGRAMMES

The complete list of genome research projects currently being funded by various EC sources is as follows:

Title	EC Programme	No. of Labs	Periods of Execution
Sequency the chromosome III from yeast	BAP	35	89-90
Sequency of the yeast genome	BRIDGE	31	91-93
Molecular Identification of new plant genes (Arabidopsis genome)	BRIDGE	27	91-93
Establishment of a complete map and strategic approach to the Bacillus subtilis genome	SCIENCE	5	89-91
A complete physical map of Drosophila melanogaster genome	SCIENCE	3	88-93
Functional and structural analysis of the mouse genome	SCIENCE	3	89-92
Development of a genetic and physical map of the Porcine genome	BRIDGE	11	91-93
Physical Map of Human Genome	HGAP	20	90-92

Contact: Dr B. Loder, CEC, DG XII/F/6, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 236.31.93/50.749, Fax: (32) 22355365

## BRAIN: BASIC RESEARCH IN ADAPTIVE INTELLIGENCE AND NEURO-COMPUTING

More than 100 top European specialists in mathematics, Neural networks, connectionism and computer science met in Dublin for a two day conference organised by the CEC under its **BRAIN** initiative (**Basic Research in Adaptive intelligence and Neuro-Computing**), which is part of the **SCIENCE** Programme (see page 21). BRAIN is a series of projects which cover a wide range of topics in the rapidly developing cognitive sciences. The conference paper covered questions such as spatial and temporal transformations in the brain, neural networks for data processing, parallel processing in neural networks, automata networks,

distributed matrix memories and adaptive intelligence. These transnational projects are aiming to extend our understanding of **how the human brain functions** and to apply this new understanding to the design of devices that emulate the human brain's unique task-oriented problem solving-capacity.

Contact: Mr C. White, CEC, DG XII/A, SDME 01/36, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.53.69, Fax.: (32) 2 235.88.65.

## EC — US TASK FORCE ON BIOTECHNOLOGY RESEARCH

An administrative arrangement to establish the above task force was signed by President Bush's Science Adviser, Dr A. Bromley, and EC Vice-President Pandolfi on 8th September. The task force will facilitate **exchange of information and collaboration on biotechnology research** — e.g. large pro-

jects such as genome analysis (human and several other species), and pre-normative research.

Contact: Mr M.F. Cantley, CEC, DG XII-F-1, SDME 02/67, 200 rue de la Loi, B-1040 Brussels, Tel.: (32) 2 235.58.14, Fax.: (32) 2 235.55.365.

## A NEW BIOTECHNOLOGY RESEARCH AND DEVELOPMENT PROGRAMME

Within the third R&D framework programme, 164 million ECU have been allocated to **biotechnology**. The new programme has a more fundamental research-oriented approach than **BRIDGE**, which was intended for pre-competitive research, and will support projects at 3 levels: **1. Molecular** (35-40 % of funds) — protein structure and function, structure and function of genes, expression of genes **2. Cellular and organism**

(45-55 % of funds) — cellular regeneration, reproduction and development, **3. Ecology and population biology** (10-15 % of funds — Ecological implications of biotechnology).

Contact: Mr J. D. de Nettancourt, CEC, DG XII, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.40.44, Fax.: (32) 2 235.01.45.

## FIRST EUROPEAN CONFERENCE ON BIOMEDICAL ENGINEERING

The aim of this conference is to bring about fruitful interdisciplinary discussions between researchers, producers and users of medical instruments and devices, so as to pool European knowledge and to strengthen international cooperation. Contact: Dr V. Thevenin, CEC, DG XII/F/6, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 35.00.34, Tlx.: 21877 COMEU B, Fax.: (352) 2 235.01.45.

## EUROBIOTA NEWS ON TRAINING IN BIOTECHNOLOGY



**EUROBIOTA** ('EUROpean **BIOTECH**nology Training Association') is a University Enterprise Training Partnership (UETP) promoted by the University of Granada. It is funded under the COMETT Programme.

**EUROBIOTA News** can be obtained from: Mr S. Robbes, EUROBIOTA, C/ Gran Vía, 1-B, E-18010 Granada, Tel.: (34) 58 29.27.23, Fax.: (34) 58 29.59.53

## INVESTMENTS IN BIOTECHNOLOGY

Venture capital input into biotechnology in Europe doubled in 1989 to reach 144.5 million ECU, according to EVCA. This is a substantial increase on 1988 when investments in biotechnology totalled 70.4 million ECU. The proportion of total venture capital grew from 2 % to 3.38 %.

Contact: Dr. G. Mondelli, Fertec — via A. Fauser, 8, I-28100 Novara, Tel.: (39) 321/69.19.01, Fax: (39) 321/44.75.23.

Announcement  
and Call for Papers



**6th European  
Conference on  
Biomass for Energy,  
Industry and  
Environment**

Astir Complex  
Nafsika Congress Hall  
Vouliagmen Athens  
Greece  
21-27 April 1991

Deadline for Abstracts  
1 Sept. 1990

Sponsored by the  
Commission of the European Communities

## ECSC 1990 PROGRAMME RECOMMENDS AID OF 28 MECU FOR STEEL RESEARCH

The CEC has consulted the ECSC Advisory Committee on the **Steel Research and Pilot/Demonstration** projects for the 1990 ECSC programme. In conformity with the latter, 28 002 040 ECUs will be allocated as financial aid to steel research, with an additional 12 996 650 ECU in favour of the Pilot/Demonstration projects. In the 1990 programme, priority was given to projects having two aims: a) improvement of pro-

duction output and the quality of steel products; b) development of the uses of steel in accordance with the ever stricter demands of users through research oriented towards products.

Contact: Mr P. Evans, CEC, DG XII MO 75/01-24, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.37.07.

## MEDIUM-TERM GUIDELINES FOR THE ECSC PROGRAMMES OF STEEL RESEARCH

The specific programmes in the field of technical steel research are concerned with steel research and with steel pilot and demonstration projects respectively, promoting collaboration between the steel industry and its research laboratories on the one hand and complementary centres of

expertise in industry, universities and research institutes on the other. The CEC has just published the new medium-term guidelines for these programmes (1990-95) in OJ C 252 of 6.10.1990.

## SEMINAR OF THE PHEBUS-FP PROJECT (FISSION PROJECT)

5-7 June 1991

Presentation of the General Context, the **Experimental Programme and Test Facility**, Cadarach, France. Sponsored by the French Commissariat à l'Énergie Atomique and the CEC. Contact: Mrs. M.C. Rubinstein, Commissariat à l'Énergie Atomique, ISPN/DERS/SEMAR, CEN Cadarach, F-13108

Saint-Paul-les-Durance, Cedex 147, Tel.: (33) 42 25.27.60, Fax.: (33) 42 25.29.29 or Mr W. Krischer, CEC, Institute of Safety, Joint Research Centre, Ispra Site, I-21020 Ispra (VA), Tel.: (39) 332 78.96.10, Fax.: (39) 332 78.90.45.

# SCIENCE — STIMULATION OF THE INTERNATIONAL COOPERATION AND INTERCHANGE NEEDED BY EUROPEAN RESEARCH SCIENTISTS

NEW GUIDE FOR APPLICANTS NOW AVAILABLE

The **SCIENCE** programme is a CEC initiative aimed at the stimulation of **cooperation and interchange among European scientists**. Its specific objectives are to:

- promote training through research and, by means of cooperation, the better use of high-level researchers in the Community;
- improve the mobility of research scientists in the Member States;
- develop and support intra-European scientific and technical cooperation;
- promote the setting-up of intra-European cooperation and interchange networks.

The **SCIENCE** plan applies to all fields of the exact and natural sciences. For assessment and handling purposes proposals are divided into the following categories: mathematics, physics, chemistry, life sciences, earth sciences and ocean sciences, scientific instrumentation, and engineering sciences.

## SCIENCE SOON OPEN TO ICELAND

The CEC has proposed a cooperation agreement with Iceland with a view to associating it with the SCIENCE Programme (see OJ, C 185 of 21. 7. 1990). It is expected that the Council will soon approve this proposal.

**Further information and the new guide for applicants can be obtained from:** Ms J. Shiel, CEC, DG XII-H-1, MO 75-04/7, 200, rue de la Loi, B-1040 Brussels, Tel.: (32) 23.62.984, Fax.: (32) 2 23.50.656.



SCIENCE PLAN  
(1988-1992)  
LEITFADEN FÜR ANTRAGSTELLER  
KOMMISSION DER EUROPÄISCHEN GEMEINSCHAFTEN

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**Order form:** Please send me a copy of the SCIENCE Guide for Applicants in:

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Address: .....

Postal Code ..... Town: ..... Country: .....

**Please return to Mrs J. Shiel (see address above).**

✕ .....

## ANTHROPOCENTRIC PRODUCTION SYSTEMS: A NEW FAST STUDY

This study, undertaken under the auspices of **FAST**, has involved around 40 researchers and institutes. **Anthropocentric systems** are characterized by the fact that they have been designed around, and depend for their operation upon, human skills. They thus represent the opposite to fully-automated production systems and are less prone to break down and **better able to meet future market requirements**,

such as small batch production, a high degree of flexibility and efficiency, high quality products and high safety and security standards. In short, they derive from a new philosophy in high-tech development.

Contact: Mr W. Wobbe, CEC, DG XII/H/3, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.97.55, Fax.: (32) 2 235. 06.56.



## ANTHROPOCENTRIC TECHNOLOGY & SYSTEMS (AT&S) NEWSLETTER

The Anthropocentric Technology and Systems Newsletter (AT&S) is the latest in a series of efforts being made by **FAST** to **publicise and popularise**, at Community level, the **idea of anthropocentric (or human-centered) technology design (AT)**. AT denotes a type of technology design that aims to enhance the skills

and abilities of users as one important way of improving systems performance. AT&S appropriately features AT issues.

It can be obtained from Mrs de Greef, CEC, DG XII, FAST, Rue de la Loi 200, B-1049 Brussels, Fax: (32) 2 235.06.56

## BOLETIN DE INFORMACION BIBLIOGRAFICA EN GESTION DE TECNOLOGIA

El Programa Horizontal de Formación en Gestión de la Tecnología, que desarrolla el INI ha relanzado la publicación de su boletín de Información bibliográfica. Para recibir una

copia escribir a: Documentación, Programa OGEIN, Fundación Empresa Pública, Pl. Marqués de Salamanca, 8, E-28006 Madrid, Tel.: (34) 91 435.61.09/577.79.29.

**EUROPROSPECTIVE II: FORECASTING AND ASSESSMENT OF R&D**

Brussels, 3-5./12/1990

EUROPROSPECTIVE II is organised by the CEC **FAST programme (Forecasting and Assessment in Science and Technology)** and will focus on three main themes: a new R&D organization in Europe, changing values and socio-economic structures in Europe and, Europe, a province of the world? More than 500 participants from industry, public institutions, associations, parliaments and the academic world are expected to attend EUROPROSPECTIVE II.



The programme may be obtained from Mrs A. de Greef, CEC, DG XII, FAST, 200 rue de la Loi, B-1049 Brussels, Fax.: (32) 2 235.06.56.

✂ .....

Please send me information on **EUROPROSPECTIVE II**

Name: ..... Company/organisation: .....

Address: .....

Postal Code: ..... Town: ..... Country: .....

Please return to the above address

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**2ND EUROPEAN CONGRESS ON TECHNOLOGY ASSESSMENT**

MILAN, ITALY 14 - 16 NOVEMBER 1990

The congress offers a possibility of discussing and defining critical areas where the management of technology has been challenged. Special attention will be paid to the potential users/demanders of technology assessment: parliaments, industry, researchers and trade unions.



**PEOPLE  
AND  
TECHNOLOGY**

*Ways and Practices of Technology Management*

*Milano, Italy,  
14 - 16 November 1990*

*The 2nd European Congress  
on Technology Assessment*

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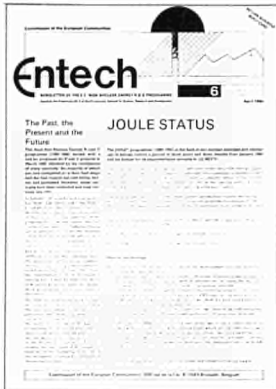
To be sent to: Mrs Anne de Greef, Commission of the European Communities, DG XII, FAST, Rue de la Loi 200, B-1049 Brussels, Fax: (32) 2 235.06.56

**EUROPEAN DIRECTORY OF TECHNOLOGY PERIODICALS**

The Akse Technology Transfer Library is compiling a **European directory of newsletters and journals** relating to technology, technology transfer and industrial innovation. Publishers and institutions producing such material are in-

vited to contact Mrs M. Dunn, Akse Library, Parklaan 2, B-9100 Sint Niklaas, Tel.: (32) 3 776.50.63, Fax.: (32) 3 778.07.85 for copies of the questionnaire or further information. Participants will receive a free copy of the directory.

## JOULE: R&D IN THE FIELD OF NON-NUCLEAR USE OF ENERGY



The **JOULE programme** (1989-1992) in the field of non-nuclear energies and rational use of energy covers a period of three years and three months from January 1989. The budget for its implementation is 122 million ECU. The **objectives** of the programme are: to contribute to the **long-term security of energy supply** and to reduce imports, to alleviate environmental problems related to energy conversion and use, to improve industrial competitiveness; to assist in the establishment of the large internal market of 1992 in the energy sector; to solve technical problems in energy supply and use in developing countries.

**Research** focuses mainly on the following fields and sectors: Rational use of energy, energy from fossil sources, renewable energies and models for energy and environment.

**Programme managers:** Marcel TROUSSON (Coordination), ☎ +32/2/2 35 39 78, Wolfgang PALZ (Renewable energies), ☎ +32/2/2 35 69 22, Pierre VALETTE (Energy and Environment), ☎ +32/2/2 35 63 56, Pieter ZEGERS (Rational use of energy), ☎ +32/2/2 35 58 45, Giancarlo IMARISIO (Fossil sources of energy), ☎ +32/2/2 35 69 19, Karel LOUWRIER (Geothermal energy), ☎ +32/2/2 35 69 62, Fax +32/2/2 36 30 24, CEC, DG XII - JOULE Programme, 200, Rue de la Loi, B-1049 Brussels.

### ENERGY COSTS: EC-US RESEARCH COLLABORATION PROJECT

A research collaboration project **on energy costs** between the EC and the US department of energy has been set up by Vice-President **Pandolfi** and **Dr Bromley**, Presidential Adviser on Science and Technology. This project has three primary objectives: to create a unified conceptual design for quantifying the various social costs associated with the production and consumption of energy from different fuel sources, to demonstrate an accounting framework and to identify critical methodological issues and information needs that will affect any increased efforts to develop a comprehensive assessment of the social costs of energy.

Contact: Mr P. Valette, CEC, DG XII/E/5, SDME 03/42, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.63.56, Fax.: (32) 2 236.30.24.

### DEBATE ON THE ENERGY-ENVIRONMENT RELATION

Ministerial discussions of the Energy Council to be held in Luxembourg on 29 October will focus on **energy and the environment, natural gas, Community energy supply security, progress towards achievement of a single energy market**, certain problems linked to the development of East European countries and, above all, the consequences of the Gulf crisis on the energy market.

Contact: Mr R. Gardner, CEC, DG XVII, 200, rue de Loi, B-1049 Bruxelles, Tel.: (32) 2 23 586 33, Fax.: (32) 2 23 50 150.

### CEC SEEKS 12% ENERGY SAVINGS SAVE PROGRAMME PROPOSED

The CEC has approved a proposal to **reduce overall energy consumption** by EC Member States **by 12%**. The **SAVE** Programme will initially last 5 years and is designed to be the essential core of Community energy efficiency policy. It will focus on three major areas: technical measures, financial measures and measures relating to consumer behaviour. It will also include a **series of legal measures** which the Commission will draw up for proposal to the Council and Parliament. In addition it will comprise measures partially financed by the Community to provide **backup** for structures and ac-

tion in the Member States on energy efficiency. Finally a suitable systems for the **exchange of information** at Community and international level will be developed. The Commission has also approved a directive concerning the approximation of national legislation on the efficiency **requirements for new hot-water boilers** fired with liquid and gaseous fuels.

Contact: Mr A. Colling, CEC, DG XVII, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.40.87, Fax.: (32) 2 235.01.50.

## INVITATION TO SUBMIT PROJECTS FOR 1991 FOR THE THERMIE PROGRAMME ENERGY TECHNOLOGIES FOR EUROPE

Following the adoption by the Council of the THERMIE programme (see ITT 3/90, page 21) the CEC invites interested parties to submit **projects for possible selection** to receive financial support for **energy technology projects** for 1990. The invitation covers **rational use of energy, renewable energy sources, solid fuels, and hydrocarbons**.

Projects to be considered must reach the Commission not later than 12 noon on **7 January 1991**. Details on the com-

pulsory procedure for the submission of a proposal, information on the eligibility conditions, selection criteria and other relevant information are to be found in the document '**THERMIE 91 — Background information and procedure for submission of projects**'. This document can be obtained (written request only) from the following address: CEC, DG XVII, THERMIE programme, 200 rue de la Loi, B - 1049 Brussels, telex 21877 COMEU B, telefax 32(2) 235 01 50 (on THERMIE see also OJ L 185 of 17.7.1990).

## R&D IN THE FIELD OF ARCHITECTURE AND ENERGY

On the firm basis of an energy-conscious architectural tradition which preceded the oil glut **Passive Solar Architecture** is emerging as an energy saving, environment-friendly, bioclimatic architecture. It offers the prospect of a potential **reduction of 33 % in the heating demand** of modern houses, a potential reduction to zero of the total cooling demand, and an as yet unestimated reduction in the need for artificial lighting in the non-domestic building sector by using new technologies such as: **passive solar heating, passive cooling and daylighting**. The development of these technologies is supported in Directorate XII E's **R&D-sub-**

**programmes on renewable energies and energy conservation**. Technology transfer to the building industry is supported under DG XIII's **VALUE** programme (see page 38). In an **international** workshop in Edinburgh projects from Europe and the USA in the field of passive solar design support to architects were reviewed and experience exchanged. The proceedings will soon be available as EUR 13130.

Contact: Mr T.C. Steemers, CEC, DG XII, 200, rue de la Loi, B-1040 Brussels, Tel.: (32) 2 235.68.78, Fax.: (32) 2 236.30.24.

## WORKING IN THE CITY — A EUROPEAN IDEAS COMPETITION

A book with this title has been published for the Commission under No EUR 12919. It reports on the architectural competition with the same name which was organised by the Commission with the aim of promoting **the use of daylighting techniques in the design of non-domestic buildings** in European cities. This book can be purchased (Eurocheque or money order) for IRL £ 14 from: Energy Research Group, School of Architecture, University College Dublin, Richview, Clonskea Drive, Dublin 14, Ireland.



## 1990 EUROPEAN WIND ENERGY CONFERENCE:

### WIND ENERGY TO MEET 10 % OF EUROPE'S ELECTRICITY NEEDS

The 1990 EC conference on **wind energy** in Madrid was attended by more than 500 participants from 30 countries. This conference came at a time of increased interest in renewable energy sources both in the EC and elsewhere. The environmental problems and the greenhouse effect caused by current energy production systems have recently been com-

pounded by the growing concern about the security of Europe's energy supply in the wake of the events in the Persian Gulf.

Contact: Mr W. Palz, CEC, DG XII-E-3, SDME 03/19, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.69.22, Fax.: (32) 2 236.30.24.

## COMMISSION LAUNCHES PROJECT TO BETTER LOCATE AND EXPLOIT OIL RESERVES

Under the auspices of its **JOULE** (Joint Opportunities for Unconventional or Long Term Energy supply) programme (see page 23) the CEC has set up a fully integrated multidisciplinary research project in the field of Geosciences whose size and impact will be unique. It brings together thirteen universities, four research organisations and three oil companies from nine countries of the EC. The objective will be to ensure a **sufficient energy supply** and stabilize world oil prices by

finding new oil reservoirs, and making better use of the reservoirs already known through improved technologies.

For further information, please contact: Dr G. Imarisio, CEC, DG XII/E/6, SDME, 03/7, 200 rue de la loi, B-1040 Brussels, Tel.: (32) 2 235.69.19, Fax.: (32) 2 236.30.24 or Mr J.M. Bemtgen, CEC, DG XII/E/6, SDME, 03/11, 200 rue de la Loi, B-1040 Brussels Tel.: (32) 2 236.20.71, Fax.: (32) 2 236.30.24.



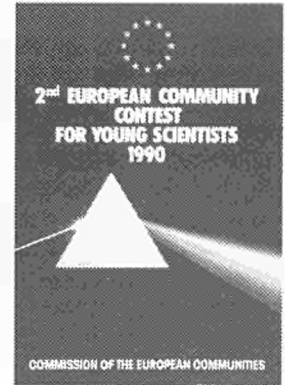
## SECOND EUROPEAN CONTEST FOR YOUNG SCIENTISTS

18.10.1990 — Copenhagen

The object of the Contests is to bring together **Europe's most promising young scientists** aged between 15 and 21 who are the winners of national contests held by all Community Members and involving more than 10 000 young people. The contest seeks to promote **cooperation and interchange** between young scientists. In providing this stimulus for the development of young scientific talent the European Community hopes to inculcate a lasting interest in science and technology among European youth and educational circles.

This year there are **48 contestants from 16 countries** in Europe (the Community plus Austria, Norway, Sweden and Switzerland). The award ceremony is preceded by an exhibition of all the projects entered by the contestants. This will take place at Copenhagen's Falconer Centre and is open to the public on 17 and 18 October.

Contact: CEC, DG XII, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.52.76, Fax.: (32) 2 236.33.07.



## L'EUROPE DE LA R&amp;D VOUS ATTEND

Pour mieux savoir comment fonctionne la Communauté européenne

et notamment connaître:

- la politique poursuivie, et les conséquences de cette politique pour la R&D en Europe.
- les organes et acteurs de décision, de délibération et de consultation

Pour mieux utiliser les opportunités offertes par les programmes de recherche communautaire

et notamment connaître:

- les appels d'offres avant leur date de publication
- savoir comment y répondre
- quels sont les budgets disponibles
- quels partenaires rechercher, où les trouver et comment

Pour avoir le bon carnet d'adresses ...

## La Lettre Européenne du Progrès Technique

Cette lettre confidentielle est exclusivement servie depuis 1984 sur abonnement nominatif. Spécimen gracieux sur demande



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## INFORMACION SOBRE LOS PROGRAMAS DE I&D DE LA COMUNIDAD EUROPEA



CÓMO PARTICIPAR EN LA EUROPA DE LOS INVESTIGADORES

Plan Nacional de I+D

La Secretaría General del Plan Nacional de Investigación (España) ha lanzado un plan de difusión de documentos, sobre I&D de la Comunidad Europea, dirigido a todos los investigadores españoles. Hasta ahora se han editado los siguientes:

1. **Folleto CE-1:** 'Como participar en la Europa de los Investigadores'.
2. **Folleto CE-2:** 'Los programas de I&D de la Comunidad Europea (Cuadras)'.

3. **Carpeta CE-3:** 'Los Programas de I&D de la Comunidad Europea (Fichas)'.

4. **Folleto CE-4:** 'Prontuario para presentar un proyecto de I&D a la CE'.

Cualquier documento de esta serie puede obtenerse gratuitamente solicitándolo en las Oficinas de Transferencia de Resultados de Investigación (OTRI) establecidos en las Universidades, Organismos Públicos de Investigación y la Secretaría General del Plan Nacional de Investigación. La calle de Rosario Pino número 14-16, E-20020 Madrid, a través de: (1) su Oficina de Transferencia de Tecnología (OTT), o (2) su Vicesecretaría para la Coordinación Científica Internacional.

## EXPOSITION INTERNATIONALE 'ELETTRONICA, SPAZIO, ENERGIA'

5.-9.11.1990 — Rome

L'Exposition Internationale 'Elettronica, Spazio, Energia' tiendra sa 37ème édition à Rome. Les thèmes qui seront développés, en ce qui concerne la partie expositive, auront trait à 'Electronique-télécommunications-informatique',

'Espace-aéronautique' et 'Energie-environnement'.

Contact: INTEX Srl, Via Crescenzo, 9, I-00193 Rome, Tel.: (39) 6 68.69.343/4/5, Fax.: (39) 6 65.48.482, Tlx: 611407.

**ERASMUS: EC SCHEME FOR THE MOBILITY OF UNIVERSITY STUDENTS**

**NEW GUIDELINES NOW AVAILABLE**

Intra-Community student mobility under the ERASMUS programme has grown substantially: from around 4000 students involved in 1987/88, to 15000 in 1988/89, and to 28000 in 1989/90. ERASMUS has also given rise to more than 1500 inter-university cooperation programmes (ICPs) of various types, involving more than 1000 higher education establishments within the Community. The ERASMUS (and LINGUA) Guidelines for Applicants for the academic year 1991/92 are now available. They give information on financial support to universities, mobility grants for students, grants for visits for higher education staff and other forms of financial support.

79 of the above ICPs have been selected as part of the

LINGUA programme. They are essentially concerned with future language teachers and those studying the least taught languages of the EC, Portuguese, Greek, Dutch and Danish. Because the budget available for LINGUA for its initial year of operation is very limited, a large number of the ICPs in the field of modern European languages will continue to be supported under ERASMUS.

Particular attention is drawn to the deadlines: Interuniversity Cooperation Programmes (ICP) — 31 October 1990; students not participating in an ICP (free movers) — 1 January 1991 -, visits for higher education staff and other financial support — six months at least before the visit or project is due to take place.

✂ .....

Order form: Please send a copy of the ERASMUS Guidelines to

Name .....

Address .....

Postal Code: ..... Town: ..... Country: .....

Please return to Mr P. Clist, ERASMUS Bureau, 15 rue d'Arlon, B-1040 Brussels, Tel.: (32) 2 233.01.11, Tlx.: 63528, Fax.: (32) 2 233.01.50.

✂ .....



**LINGUA: OVERCOMING LANGUAGE BARRIERS**

**DEADLINES FOR LINGUA:**

Action I (Continuing Education) every 31 January
Action II (see ERASMUS ICP scheme)
Action III (Economic field) 1 October and 1 April
Action IV (Study Visits): 1 November for visits after February 1991
1 April for visits after September 1991
Exchanges: 1 November for exchanges after March 1991
1 April for exchanges after September 1991

**ERASMUS DIRECTORY 1989/90**

The ERASMUS Directory gives a comprehensive listing of the ICPs funded in 1989/90. It contains a chapter of detailed statistics, explanatory notes for potential applicants for all forms of ERASMUS support, a complete list of study or teaching visits carried out, a presentation of projects conducted by student and university associations etc. This publication is on sale at the Office for Official Publications of the European Communities, 2 rue Mercier, L-2985 Luxembourg, Fax: (352) 490003, and the sales offices in the Member States (see page 55).

← Contact: LINGUA Office, 2 pl. du Luxembourg, B-1040 Brussels, Tel.: (32) 2 511.42.18, Fax: (32) 2 511.43.76.

**JEAN MONNET PROJECT 'EUROPEAN INTEGRATION IN UNIVERSITY STUDIES'**

The Jean Monnet Project II is a system of funding teaching activities beginning in October 1991 and continuing through the 1991-1992 academic year. In the pilot year, 1990, 220 subsidies were granted, 46 of which were to set up 'European Chairs'. For the Jean Monnet Project II, the CEC is to concentrate its efforts on certain teaching projects, notably: Euro-

pean Chairs, Permanent Courses and European Modules. The deadline for the submission of applications is: 20 November 1990.

Contact: Action Jean Monnet, CEC, DG X, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 236.29.91/56.336, Fax.: (32) 2 236.31.06.

**A SINGLE MARKET IN NON-LIFE INSURANCE**

The CEC has adopted a new proposal on non-life insurance which will complete the Single Market in this economically important sector. It will give any insurance company which is established within the Community the right to supply all types

of insurance other than life insurance in any other member country and to set up branches, subject to the control of its home country (see OJ C 244 of 28.9.1990).

COOPERATION RESEARCH/INDUSTRY:

845 PROJECTS SELECTED FOR FIRST YEAR OF COMETT II

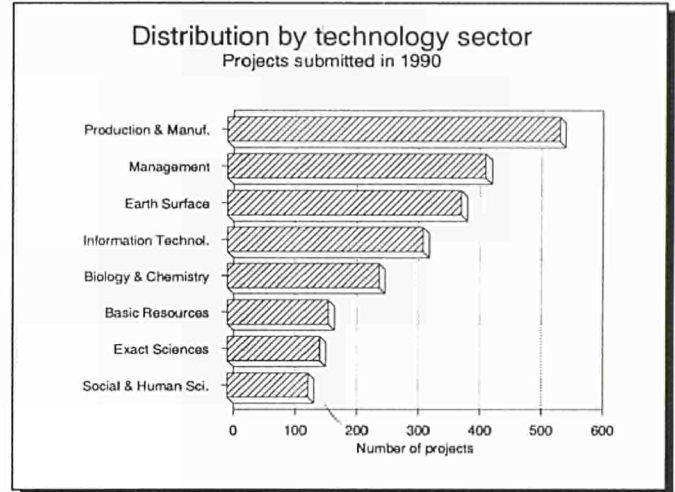
This year, 2,333 new projects have been presented for the COMETT programme for training in advanced technologies — 155 of which came from EFTA countries. These projects came from over 2,000 universities and institutions of higher education, almost 5,000 enterprises, and some 3,000 public and private professional bodies. In all, 845 projects were selected. Of these, 158 represent UETPs (University/Enterprises Training Partnerships), 246 are for transnational stu-

dent scholarships (involving 3,777 students), 13 for advanced placement of students, 65 for personnel exchanges, 124 for short-term training courses, 190 for joint training projects (most of which are part of new training approaches, particularly the development of long-distance training systems and multimedia training products), and 49 for preparatory visits.

COMETT PROGRAMME WILL ALSO BE OPEN IN FUTURE TO EFTA STATES

In accordance with the Council Decision of 22 May 1989, the universities and enterprises of the EFTA countries can participate in COMETT II on the same basis as those in the Community, as long as at least two EEC Member States are also involved. The COMETT II Programme, which came into force on 1 January 1990 and has been allocated funds totalling more than 200 million ECU for the next five years, primarily promotes cooperation between universities and enterprises in the field of training, the transnational exchange of students and company employees as well as joint projects on training in the field of developed technologies.

Contact: COMETT, Technical Assistance Office, 71 av. de Cortenberg, B-1040 Brussels, Tel.: (32) 2 733.97.55, Fax.: (32) 2 734.56.41.



Distribution of the projects by technology sector submitted in 1990

70 EUROPEAN UNIVERSITIES FORM COMNET — COMMUNITY NETWORK FOR EUROPEAN EDUCATION AND TRAINING

The objective of the 'Community Network for European Education and Training' is to promote the development and operation of University-Enterprise Training Partnerships (UETPs) within the EC, as well as their creation. This task comprises: stimulating cooperation and innovation in educational and industrial exchanges, developing and promoting the ex-

change of staff, students and training materials between partners, and generally assisting universities and enterprises to participate in EC programmes.

Contact: COMNET, Prof. V. de Kosinsky, 6 quai Banning, B-4000 Liege, Tel.: (32) 41 52.80.85, Fax.: (32) 41 53.40.97.

CALENER UNIVERSITY TRAINING PARTNERSHIP (UETP) IN THE ENERGY AND ENVIRONMENT SECTORS

CALENER is a transnational consortium of 60 organisations, enterprises and experts to promote training in the fields of energy and environment. CALENER is an UETP funded under the CEC COMETT programme and coordinated by the Ecole des Mines de Paris. Copies of the CALENER Newslet-

ter can be obtained from: Mr J. Adnot, Mr I. Arditi or Mr D. Campana (editors), Ecoles des Mines de Paris, 60 bd. St Michel, F-75272 Paris Cedex 06, Tel.: (33) 1 42.34.91.57, Fax.: (33) 1 43.54.18.88.

PETRA NETWORK ON VOCATIONAL TRAINING FOR YOUNG PEOPLE EXPANDS

Transnational partnerships in initial vocational training are now being set up all over the EC under the Community Action Programme for the vocational training of young people and their preparation for adult and working life (PETRA). More than 250 projects are now taking part in the PETRA Network, with 90 new projects having been chosen in 1990. These partnerships reflect the aim of PETRA to help Member States

develop a European dimension in their initial vocational training in the context of the preparations for the completion of the Internal Market by the end of 1992.

Contact: PETRA Support Unit, IFAPLAN, 32, Square Ambiorix, B-1040 Brussels, Tel.: (32) 2 230.71.06, Fax.: (32) 2 230.71.67.

## HEURAS — A SERVICE AND INFORMATION CENTRE FOR ALL ASSOCIATIONS IN HIGHER EDUCATION

HEURAS is a subdivision of the EUROPEAN COOPERATION FUND, whose main objective is to stimulate cooperation between institutions and services in all possible fields of higher education and to promote cooperation and cross-fertilisation between its member associations throughout Europe. HEURAS present activities extend to both Western and Eastern European countries. Its members are associations in the field of: Teacher Training, Architectural Education, Engineering Education and the Liaison Committee of Rectors' Conferences of Member States of the EC.

HEURAS promotes information about all aspects of higher education in Europe, offering logistical and administrative support to associations in higher education. HEURAS cooperates closely with the CEC, the various technical assistance units in the field of R&D (TEMPUS, COMETT, ERASMUS, LINGUA, etc.) and other European institutions.

**Further information can be obtained from:** Mr Y. Beernaert or Mrs F. Côme, Rue de la Concorde, 51, B-1050 Brussels, Tel.: (32) 2 512.17.34, Fax.: (32) 2 512.32.65.



Y. Beernaert (Director), A.A. Brusselmans (Secretary), F. Côme (Administration, Publications officer), H. Lutikholt (Committee of Rectors Conferences).

### ERASMUS PRIZES AWARDED

The CEC has awarded 27 ERASMUS Prizes to 12 Students, to 12 university staff and to 3 Inter-University Cooperation Programmes whose contribution to ERASMUS has been

particularly outstanding during the first phase of the programme (1987-1990). Contact: ERASMUS Bureau (see page 26)

## EUROPEAN STUDENT FAIR

BRUSSELS EXHIBITION CENTRE

19 - 23 MARCH 1991



- 150.000 visitors (90 % aged between 15 and 25)
- 20.000 m2 of exhibition
- 700 higher and further education establishments from all over Europe
- the presence of Eastern universities
- the "Task Force Education and Human Resources" of the European Community, the Directorate-General for Information (DGX) and for Research (DGXII), the European Parliament, the Council of Europe...

The European Student Fair is also : the "MEETING-FORUM ON MOBILITY IN EUROPE" :

From March 19th to 22nd, 500 academic staff from all over Europe can acquire information about the European programmes of mobility in the field of higher and further education, and meet partners to create new exchanges.

- ✓ 19-20 march : Information given directly by the high-ranking officials of the European institutions.
- ✓ 21-22 march : Workshops gathering 20 persons and allowing the exchange of concrete mobility experiences.

**The European Student Fair : The Event of higher and further education in Europe.**

*For further information, please contact :*

**Christine Fiset or Angela Scillia**  
Co-Media

rue de la Caserne, 86 - 1000 Brussels ♦ Belgium

☎ : 32/2/514.10.11 ♦ Fax : 32/2/514.48.18

### BCS DISABILITY PROGRAMME — 6th ANNUAL CONFERENCE & EXHIBITION

Under its Disability Programme, the British Computer Society is holding a conference on 6 & 7 November 1990 with the title 'EUROPE: MARKETS AND POLICIES'. It will examine the changes in marketing and legislation likely to apply

after 1992 concerning the use of technology by people with disabilities.

Contact: Mr G. Watson, G6 Burton Lodge, Portinscale Road, London SW15 2HT, Tel.: (44) 81 874.06.37.

## EUROPEAN MONETARY UNION

### EMU: SECOND PHASE OF TWO YEARS BEGINNING ON 1/1/1993

The Commission of the EC has adopted its final proposal for **Economic and Monetary Union (EMU)**. President Delors underlined that the document should try to take into account the position of every country and try to find a proposition which could obtain the consensus of all Member States. The first stage should make it possible to achieve a **high degree of convergence**, to reinforce monetary policy coordination and to promote the role of the ECU. The **second stage** would then become a phase of **intensive preparation**, during which the **European System of central banks, EUROFED**, would be set up. The CEC proposes to start this second stage on 1/1/1993.



CEC President J. Delors

The following main points are examined in the proposal: **1) The ECU:** The CEC proposes that the Treaty should designate the ECU explicitly as the future single currency of the Union. This does not mean that the ECU should be a new 13th currency. A new monetary denomination must be introduced. That however, requires time and management. **2) EUROFED:** EMU necessitates the creation of a new Community institution, EUROFED, having three fundamental principles: **price stability, independence from national governments and Community authorities, and democratic accountability.** The major tasks of Eurofed should be formulation and implementation of monetary policy and the issue of ECU. **3) ECONOMIC ADVANTAGES OF EMU:** A single currency will have great advantages by eliminating exchange rate variability, uncertainty and transaction costs.

It is the hope of the Italian Presidency that the European Council of Rome 1 (between 27 October and 2 November) will agree on a mandate to give to the Interministerial Conference on EMU. Contact: Mr H.Carré, CEC, DG II/D/3 BERL, 07/73, 200 rue de la Loi, B-1040 Brussels, Tel.: (32) 2 235.55.45, Fax.: (32) 2 235.89.81.

### PROPOSALS FOR DIRECTIVES ON PROFESSIONAL RECOGNITION

The proposal of the CEC for a Council Directive on the **recognition of professional education and training** is still under discussion. The proposal is the latest in a series of initiatives giving every Community national the right to have professional qualifications acquired in one Member State recognized or taken into account by another where the same

profession is regulated. It applies to EC nationals with higher education diplomas for which training is 'short', holders of secondary education diplomas and certain persons without diplomas but with professional experience. Contact: Mrs A. Verli-Wallace, CEC, DG V/C/2, A1 08/54, B-1040 Brussel, Tel.: (32) 2 235.71.36, Fax.: (32) 2 236.42.58.

## Announcing the leading reference volumes for the 1992 legislation

### Completing the Internal Market of the European Community: 1992 Legislation

Published for the Commission of the European Communities by **Office for Official Publications of the European Communities** and **Graham & Trotman**, London

### The Complete Reference Work for the Single Market!

This major series of 6 volumes presents in English the complete compilation of the texts of all the Directives, Regulations, Decisions and Recommendations which comprise the European Community's 1992 programme. The programme contains all the legislative measures required to remove the barriers to free movement of goods, services, people and capital in the European Community.

The 6 volumes are published in looseleaf and updated through quarterly supplements.

### Technical Standards

Also available is a 2 volume reference work providing all 1992 legislative measures with regard to Technical

Standards - particularly for industries such as Engineering, Construction, Vehicles, Machinery, Food, Chemicals & Pharmaceuticals. Also published in looseleaf, and updated quarterly.

**Please send for further details on both the above publications**

#### INFORMATION REQUEST

Please send me a brochure describing the following:

Completing the Internal Market of the EC: 1992 Legislation (6 volumes)

Completing the Internal Market of the EC: 1992 Legislation - Technical Standards

Name .....

Organisation .....

Address .....

Return to: G. Steddy, Graham & Trotman, Sterling House, 66 Wilton Rd, London SW1V 1DE, UK  
Tel: 071-821 1123, Fax 071-630 5229

## THE COMMUNITY'S AUDIOVISUAL POLICY

The Community's audiovisual policy has **three basic aspects**: 1. It aims to **establish freedom to transmit television** programmes throughout the Community by adapting the legal framework as appropriate. 2. It aims to encourage the **development of the European programme industry**. 3. It aspires to meet the **challenge of the new technologies** by defining a common approach to **television standards**.

### I — Regulations

The '**television without frontiers**' Directive adopted by the Council last October is the first step in the establishment of a common regulatory framework. It eliminates a number of specific obstacles to the free movement of programmes. It remains to complete the framework supplied by the Directive by removing the last obstacles to freedom of movement for programmes. To achieve this, the EC is working in the following fields: copyright, competition policy, pluralism and mergers, and encouraging independent production work.

### II — Encouraging the programme industry

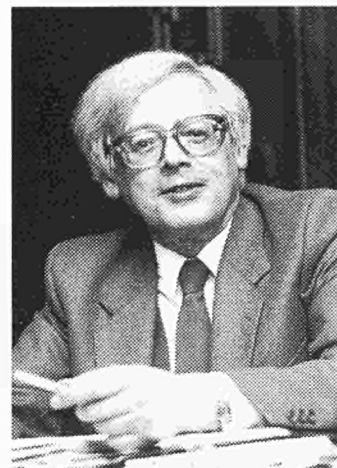
To derive full benefit from the effects of a European audiovisual area, the programme industries must be able to reply on a properly tailored economic context on new types of cooperation and new forms of investment. The Commission's action in this field has been to apply the **Media programme (Measures to encourage the development of the audiovisual industry)**.

Media is helping to create a single market for audiovisual products by **setting up networks for transfrontier cooperation between** those working in the field. It has four fields of action: distribution, production, vocational training, and funding. Consultations and studies have paved the way for the setting-up of a **venture capital fund, Media-Venture**, a loss reserve fund, **Media-Guarantee**, and new machinery promoting European co-operation.

### III — Technology

The Community provides assistance to ensure that European industry develops, in good time, all the technology, components and equipment needed for **launching HDTV services**. The challenge is increasingly shifting away from the technical field towards the actual use of the equipment developed and to produce programmes for the launching of the first HDTV services in Europe. **The setting-up a European Economic Interest Grouping (EEIG) known as 'Vision 1250'** is an initial response to this latest stage in the challenge posed by HDTV.

Contact: Mr X. Troussard, CEC, DG X, BERL 02/16, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.87.79. Fax.: (32) 2 236.07.52 or 235.01.42.



Commissioner Dondelinger responsible for cultural and audiovisual policy

## 'EUROPEAN CITY OF CULTURE' AND 'EUROPEAN CULTURAL MONTH EVENT'

The Council of Ministers agreed to create a further cultural event, which would be a special **European Cultural Month** in one city. The special European Cultural Month would not affect the standing of the European City of Culture event or the support given to it and would not exclude the city concerned from a possible future designation as European City of Culture.

Towards the end of the year the **City of Culture 1990**, Glasgow, will call a meeting of organizers of the different Cities of Culture, with a view to pooling experience.

Contact: Mr R. André, CEC, DG X/2, 70 rue Joseph II, B-1049 Brussels, Tel.: (32) 2 235.37.83 Fax.: (32) 2 236.42.55 (see also OJ, C 162 of 3.7.1990).

## FINANCIAL SUPPORT TO ENCOURAGE CULTURAL EVENTS

The CEC wishes to encourage **cultural events with a European profile** in a wide variety of artistic and cultural sectors by granting awards up to a value of 50 000 ECU (see OJ C 167 of 10.7.1990). The scheme is open to entries from all artistic

and cultural sectors and to all events designed to impart cultural knowledge and experience. Entry forms can be obtained from: Mr R. André (see address above)

## COMMUNITY ARCHITECTURAL HERITAGE

CEC Commissioner **Dondelinger** has named **26 restoration projects** which will benefit from Community financial aid, out of the 1138 submitted for acceptance this year within the framework of annual action in favour of **conservation of the European architectural heritage**. The number of projects selected is relatively limited because of budgetary restrictions: 2.6 million ECU are available this year to be shared by

the different projects. The EC has already announced that it intends to continue with action in favour of conserving the European architectural heritage. In 1991, the monuments which are witnesses to industrial, agricultural and craft production activities will be the theme chosen. For further information, please contact: Mr R. André (see address above)

## NEW CEC INITIATIVES:

## IMPROVING EMPLOYMENT OPPORTUNITIES IMPROVING TRAINING OPPORTUNITIES FOR WOMEN

The CEC has decided to launch new initiatives aimed at developing new qualifications, competences and employment opportunities: The programme **EUROFORM** will aim to improve **employment opportunities** by supporting the principal operators in the fields of vocational training and employment, with a view to bringing closer together the different national training policies. Contact: Mr P.J. Hatt, CEC, DG V,

A-1/02/13, 200 rue de la Loi, B-1040 Brussels, Tel.: (32) 2 235.67.01, Fax.: (32) 2 235.65.06.

The **NOW** initiative will have the objective of improving **training and employment opportunities for women** to ensure that women are in an equal position with men. Contact: Mrs V. C. Mandouze, CEC, DG V, A-1 08/23, 200 rue de la Loi, B-1040 Brussels, Tel.: (32) 2 235.57.23, Fax.: (32) 2 235.01.29.

### IRIS — COMMUNITY NETWORK OF TRAINING PROGRAMMES FOR WOMEN

The aim of this network is to stimulate and support the actions contained in the Commission Recommendation **on vocational training for women**. This recommendation concerns women's access to all types and levels of vocational training. The IRIS network is intended to promote exchange visits between projects participating in the network, national seminars organized in each Member State to analyse strategies for ensuring women's access to all types and levels of vocational training, and information activities.

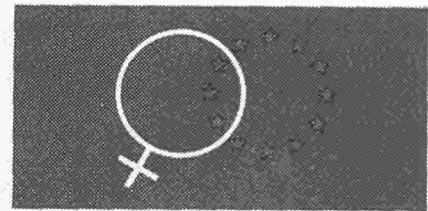
Contact: CREW, rue Stévin 38, B-1040 Brussels, Tel.: (32) 2 230.51.58, Fax.: (32) 2 230.62.30

### WOMEN OF EUROPE NEWSLETTER: NEWS ON THE EQUALITY POLICY OF THE EC

The **WOMEN OF EUROPE NEWSLETTER** reports on **all events of interest to women** in the context of the creation of the Single Market: Community initiatives for women (Programme Now, see above); Third Action Programme for equal opportunities; Childcare; Employment; New Anti-Poverty Programme; Seminars. Women lobby project; women and development etc. **WOMEN OF EUROPE NEWSLETTER** also reports on the activities of the **European Parliament**.

Contact: Mrs F. Deshormes, The Women's Information Service, CEC, DG X, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.28.60.

## EUROPE FOR WOMEN



### EUROPEAN FOUNDATION CENTRE (EFC) JOINS SYMBIOSIS — THE INFORMATION SYSTEM ON THE CONSEQUENCES OF THE INTERNAL MARKET



The CEC has invited the **EUROPEAN FOUNDATION CENTRE (EFC)**, a non-profit making organisation of Foundations operating at EC level, to play a part in **SYMBIOSIS**, an **information network** advising on the **practical consequences of the completion of the internal market** for the European Citizen. The Symbiosis network which brings together the non-profit making European organisations, local authorities and other networks involved in Community action,

is intended to meet the information needs of the 325 million European citizens in their everyday environment. Those involved in the network are ideally placed for the circulation of information related to **'A People's Europe'**. Symbiosis will become operational in the second half of 1991.

Foundations wishing for further information, contact: Mr J. Richardson, EFC, 51 rue de la Concorde, B-1050 Brussels, Tel.: (32) 2 512.89.38, Fax.: (32) 2 512.32.65. Other organisations or individuals should contact: Mr C. Hazard, CEC, DG X, BERL 02/116, 200 rue de la Loi, B-1040 Brussels, Tel.: (32) 2 236.27.39, Fax.: (32) 2 235.01.42.

### MIRIAM: MODEL SCHEME FOR INFORMATION ON RURAL DEVELOPMENT INITIATIVES AND AGRICULTURAL MARKETS

The CEC has proposed to the Council to set up **rural development information and promotion centres**. The main objective should be the dissemination of information on Community measures taken under the common agricultural policy. The Community will participate in the costs of installation and

management of the centres by means of a flat-rate contribution of 50000 ECU for the first year and 20 000 ECU for each of the two subsequent years of functioning of each centre (see OJ C158 of 28.6.1990)

## NEWS FROM DG XV:

## FINANCIAL INSTITUTIONS: 1992 IS APPROACHING

The Newsletter 'News from DG XV' reports on the EC's policy in the fields of **financial institutions and company law**. The latest issue, published in July 1990, deals with the following topics: the need for Community legislation on pension funds, third motor insurance directive, common position on a second directive on life insurance, proposal for a third

directive of non-life insurance, company law, restrictions on public procurement and proposals in the tax field (double taxation etc). The Newsletter NEWS FROM DG XV can be obtained from: Contact: Mrs G. Halberstadt, CEC, DG XV, C 100/086, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.18.55, Tlx.: 21877 COMEUR B, Fax.: (32) 2 235.65.00.

## NEW COUNCIL DIRECTIVES IN THE FIELD OF TAXATION

The Council Directives: **1. on the common system of taxation applicable to mergers**, divisions, transfers of assets and exchanges of shares concerning companies of different Member States. **2. on the common system of taxation applicable in the case of parent companies and subsidiaries**

of different Member States and the Convention on the elimination of **double taxation** in connection with the adjustment of profits of associated enterprises are published in OJ L 225 of 20.8.90.

DIRECTIVES ON PUBLIC PROCUREMENT  
PROMOTING SME PARTICIPATION

The Council Directives on the **procurement procedures** of bodies operating in the **water, energy, transport and telecommunications sectors** was adopted by the Council on 17 September 1990. The directive will enter into force on 1 July 1990 in nine Member States, (Spain in 01.01.96, Portugal and Greece in 01.01.98).

it will enter into force on the same time as the abovementioned Directive. On the subject of **Small and Medium-sized Enterprises**, the Commission has adopted a Communication to the Council entitled: 'Promoting SME participation in Public Procurement in the Community' (Document COM(90) 166 final of 07.05.1990).

Council Directive on the **Legislative procedures of the application of the Directive mentioned above**: The proposal has been approved by the Commission (Document No COM(90) 297 of 30.07.90). If finally approved by the Council,

Contact: Mr S. Papastathopoulos, CEC, DG III/B, A 17-1/10, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.32.96, Fax.: (32) 2 235.01.27.

## LIST OF EURO INFO CENTRE NETWORK

The **Euro Info Centre network** (EICs) was set up in 1987 to give European business better access to information on EC matters. There are presently 187 Centres plus 17 'antennas' established in all Member States of the EC. DG XXIII has just published a special issue of the **EURO-Info newsletter** containing the **addresses of all EURO Info-centres**.

The EURO Info Newsletter can be obtained from: Mr R. Schneider, CEC, DG XXIII, ARLN 05/30, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.63.22, Tlx.: 21877 COMEUR B, Fax.: (32) 2 236.12.41.

EUROPE 92 IN THE AREAS OF TRANSPORT, TELECOMMUNICATIONS,  
ENERGY AND TRAINING

The CEC has submitted to the Council an interim report on **trans-European networks** in the areas of **transport, telecommunications and gas and electricity transport**. This report is a preparatory stage of the 'guidelines' that the Dublin European Council requested for before the end of this year and that the Commission will present in a kind of 'White

Paper' of the infrastructures required for the smooth running of the internal market.

A copy of the report can be obtained from: Mr J.A. Vinois, CEC, DG III/A/2, RP 6/05-21, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.08.15, Fax.: (32) 2 235.01.26.



COMMISSION OF THE EUROPEAN COMMUNITIES

JOINT  
RESEARCH  
CENTRE

# EURO COURSES

## PROVISIONAL PROGRAMME 1991

### EURO COURSES

The Joint Research Centre of the CEC presents its **1991 programme of courses and seminars**. Essentially this programme reflects the subjects or aims of the research activities carried out in the establishments of the four JRC sites.

The programme includes:

- **basic or advanced courses** in specialized disciplines,
- **seminars at research level** discussing the state of the art in sectors of science where rapid development is taking place.

The lecturing staff is composed of members of the JRC establishments and visiting lecturers from universities, research organizations and industrial firms. The international character of the courses is emphasized as a means of extending sources of information and encouraging fruitful exchanges and discussions.

#### Information:

Mr G. Pellegrini  
JRC, I-21020 Ispra (Varese)  
Tel.: (39) 332 78.98.19  
Tlx: 380042 / 380058 EUR I  
Fax: (39) 332 78.98.39

	<b>Health Physics and Radiation Protection</b>	
04-15 March	Fundamentals of Radiation Protection	<input type="checkbox"/>
	<b>Chemical and Environmental Science</b>	
18-22 March	Chemical, Microbiological and Sensory Aspects of Indoor Air Quality. State of the Art in SBS	<input type="checkbox"/>
08-12 April	Quality Control and Quality Assurance in Environmental Analysis	<input type="checkbox"/>
24-28 June	Statistic Analysis in Environmental Chemistry and Toxicology	<input type="checkbox"/>
	<b>Remote Sensing</b>	
09-13 Sept.	Remote Sensing Applied to Agricultural Statistics	<input type="checkbox"/>
30 Sept.-4 Oct.	European Remote Sensing Satellite (ERS-1) SAR DATA COURSE	<input type="checkbox"/>
21-25 Oct.	Ocean Color: Theory and Application in the Coastal Zone Color Scanner Experience	<input type="checkbox"/>
	<b>Reliability &amp; Risk Analysis</b>	
13-17 May	Industrial Risks and Environmental Impact Assessment	<input type="checkbox"/>
10-12 June	Expert Systems in Structural Safety Assessment ESSA	<input type="checkbox"/>
07-11 Oct.	Experimental and Numerical Methods in Earthquake Engineering	<input type="checkbox"/>
	<b>Information and Computer Science</b>	
15-19 April	Distributed Artificial Intelligence	<input type="checkbox"/>
16-20 Sept.	Information Technology Aids for People with Special Needs	<input type="checkbox"/>
04-08 Nov.	Architecture and Programming Environment of the Supernode Network of Transputers	<input type="checkbox"/>
18-22 Nov.	Teleoperation: Numerical Simulation and Experimental Validation	<input type="checkbox"/>
	<b>Technological Innovation</b>	
27-31 May	Scientific-Technical Backgrounds for Biotechnology Regulations	<input type="checkbox"/>

### EURO COURSES

#### Request for Information

Please send the programme for the EURO COURSES as indicated on the right of the order form (please tick).

Name: \_\_\_\_\_

Organisation: \_\_\_\_\_

Address: \_\_\_\_\_

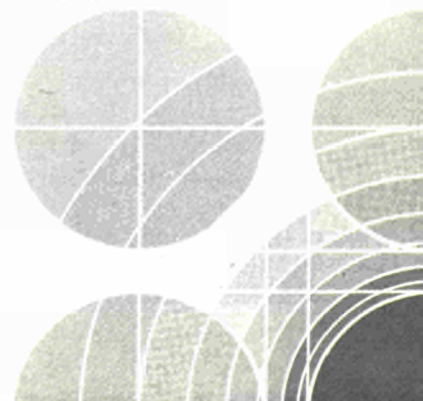
Postal Code: \_\_\_\_\_

Town: \_\_\_\_\_

Country: \_\_\_\_\_

Please return the whole page to the address below:

**Secretariat:** Eurocourses, Joint Research Centre, I-21020 Ispra (Varese), Tel.: (39) 332 78.98.19, Tlx: 380042 / 380058 EUR I, Fax: (39) 332 78.98.39



**NEW PUBLICATIONS OF THE JOINT RESEARCH CENTRE**

The Joint Research Centre of the EC is a **European scientific and technical research centre**. Its four sites in Belgium, Germany, Italy and the Netherlands house nine different institutes, each with its own focus of expertise. The JRC per-

forms scientific research and technology development for the CEC, national agencies, universities and corporate clients from Community Member States and other countries. **Various information brochures** on the JRC are available:

✕ .....

Order form: Please send me

- Institute for Prospective Technological Studies, Annual Report 1989 — **new**
- Institute for Safety Technology, Annual Report 1989 — **new**
- Environment Institute, Annual Report — **new**
- Science and Technology in Europe  
in  French  English  Italian  German
- Publications Bulletin of the JRC
- General information on the JRC
- Synthesis 1989



1989 Annual Report in \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Postal Code: \_\_\_\_\_ Town: \_\_\_\_\_ Country: \_\_\_\_\_

Please return to: Mrs A. Manara, JRC, Ispra Establishment Centre, I-21020 Ispra (VA), Tel.: (39) 332 78.98.89, Tlx.: 380042/380058 EUR I, Fax.: (39) 332 78.95.02.



**TECHNOLOGY FOR THE MARINE ENVIRONMENT**

**NEW JRC BROCHURE**

The objective of this brochure is to briefly describe a number of techniques and prototype instrumentation developed by the Environment Institute and the Institute for Remote Sensing Applications, Ispra Establishment, which have been successfully employed in studies of the marine environment.

✕ .....

**Order form** Please send me a copy of **Technology for the Marine Environment**

Name: .....

Address: .....

Postal Code: ..... Town: ..... Country: .....

To be returned to: Mr C.M. Murray, JRC, I-21020, Ispra (VA), Tel.: (39) 332 789.95.86, Fax.: (39) 332 789.95.36.

✕ .....

**ESTI: EUROPEAN SOLAR TEST INSTALLATION**

The **European Solar Test Installation (ESTI)** at the CEC Joint Research Centre, Ispra Establishment, Italy, is a European 'centre of excellence' in the field of solar energy. A major part of the work at ESTI relates to solar photovoltaics, the direct conversion of sunlight into electrical energy.

The **new publication on ESTI** can be obtained from: Mrs J. Gerbault, JRC Ispra Establishment, I-21020 Ispra (VA), Tel.: (39) 332 78.91.11 ext.5116, Fax.: (39) 332 78.99.23.

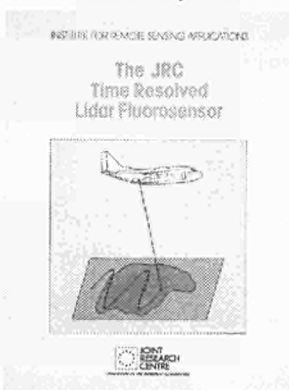
## THE JOINT RESEARCH CENTRE: SCIENCE AND TECHNOLOGY FOR EUROPE

### THE INSTITUTE FOR REMOTE SENSING APPLICATIONS

An area of increasing importance in the exploitation of space is **Earth Observation**. Earth observation satellites generate information by way of their synoptic, uniform and repetitive nature, opening up the prospect of more efficient **management of the Earth's resources, better monitoring of the environment and the global study of our planet** and its environment.

Satellite information supports a wide range of activities such as weather forecasting, scientific research, agricultural and forestry management, mineral energy and water resources, land use and urban development, forecasting of exceptional events (natural disasters) and accident management (oil spills, forest fires, etc.). These applications, therefore, concern both the developed countries and the developing countries, for whom problems of self-sufficiency of good supply and management of natural resources are crucial.

As part of the Commission activities in support of European research and technical development, the programme of the **Institute for Remote Sensing Applications** has **three main objectives**: **1.** To evaluate and demonstrate **possible applications of remote sensing techniques** in support of CEC sectorial policies, **2.** to undertake research on advanced methods for the **interpretation and utilization of satellite data** necessary for their practical application, **3.** to help stimulate the scientific community in the use of the **European satellites** (complementary to the mission of the Space Agency) such as ERS-1, Spot, Polar Orbiting Platform.



The present programme 1988-1991 includes the following main activities: **1. Land Applications:** land use planning in European marginal areas (DG VI, DG XI-CORINE), vegetation dynamics in tropical and sub-tropical areas (DG VIII), and pilot projects for the application of remote sensing in agricultural statistics (DG VI, Eurostat).

**2. Surveillance of the Marine Environment:** ocean colour European archiving network (DG XI), marine productivity (DG I), global change: marine biosphere-atmosphere interaction. **3. Development of Advanced Techniques:** application of microwaves (forests, agriculture, oceans), development of an operational laser fluorescence, and investigation of imaging spectrometry techniques.

Contact: Mr N. Murray, JRC Ispra, I-21020 Ispra, Tel.: (39) 332 78.95.86, Fax.: (39) 332 78.95.36.



Dr Klersy, Director of the Institute for Remote Sensing Applications



### QUEL AVENIR POUR L'ECONOMIE EUROPEENNE ?

CONFERENCE - DEBAT

PALAIS DES CONGRES - BRUXELLES  
7 et 8 novembre 1990

Club de Brussels, 10 rue du Col-  
lège St Michel, B-1150 Brussels,  
Tel.: (32) 2 771.88.68, Fax.: (32) 2  
770.66.71

## A CLEANER ENVIRONMENT WITH THE DIESEL PARTICULATE TRAP

**Diesel exhaust emissions pose a major public health threat**, the severity of which is directly proportional to the degree of traffic congestion and air pollution, particularly in urban areas. The ELBO diesel particulate trap is one of the **most effective exhaust after-treatment devices to reduce the soot emissions of diesel engines**. The main filter consists of four ceramic monoliths of high filtration efficiency. The regeneration technique is the result of many years' research in the laboratory of applied thermodynamics of the Aristotle University of Thessaloniki. It is based on the idea of burning the accumulated soot with the use of the oxygen-rich exhaust gas and the high temperatures developed by the exhaust-gas throttling. The operation of the trap is fully automatic. The overall **filtration efficiency is more than 95 %** with regard to black smoke emissions, with the same fuel consumption. Over the past five years more than 100 ELBO diesel particulate traps have been installed on urban busses in Athens. Due to the very satisfactory results, plans are under way to fit them to all the public transport busses in Athens.

Contact: Prof K.N. Pattas, Laboratory of Applied Thermodynamics, Aristotle University of Thessaloniki, GR-54006 Thessalononki, Invention/development: Hellenic Vehicle Industry SA, Po Box 10239, GR-54110 Thessaloniki, Tel.: (31) 798.502, Cofinancing: DG XI, CEC, 200 rue de la Loi, B-1049 Brussels.



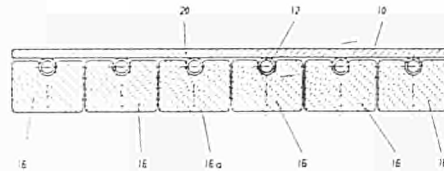
## PATENT APPLICATIONS RECENTLY PUBLISHED

The Patent Applications shown in this section concern Inventions resulting from EC-funded or cost-shared EC Contract Research:

### 1. ACTIVELY COOLED SHIELD FOR HEAT PROTECTION

Inventor: S. Mukherjee — Ref.: EUR PAT 2254

Shields of this kind may be used to protect the first wall of a fusion reactor or the inner wall of a vacuum device. This invention promises **cheaper manufacturing** and **better resistance** of the shields to alternating thermal stress because the protective bodies of the shields are connected to the cooling tubes by interlocking and frictional engagement instead of being hard-soldered in the traditional way. The protective bodies can thus simply be pushed onto the tubes and slide freely, so that it becomes easy to exchange them in the case of damage.

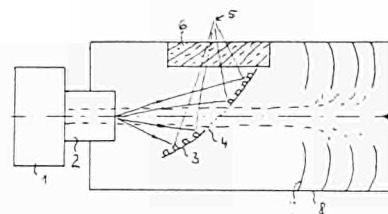


A number of cooling tubes (12) are hard-soldered or welded at an angle of 90° to a protective surface (10). One or several protective bodies (16, 16a) made of highly heat-resistant material (e.g. graphite) are associated to each cooling tube. On the side facing away from the heat flux, they form a groove-like recess (20) which surrounds the associated cooling tube like pincers, over an angular range of about 270°, thus forming a sliding fit. When the side of the protective body facing the heat flux is warmed up, the opposite side will expand, so that the frictional engagement between the wall of the recess and the cooling tube increases while the heat resistance between the cooling tube and the protective body decreases. Shearing stress in the graphite material of the protective bodies cannot occur due to the free sliding of both components.

### 2. ANTENNA PRODUCING A MILLIMETER WAVE BEAM HAVING A GAUSSIAN-LIKE DISTRIBUTION

Inventors: L. Rebuffi, M. Thumm — Ref.: EUR PAT 2255

The future larger fusion devices necessitate more powerful sources for the **efficient beam-heating of the plasma**. The new antenna system produces an axi-symmetric narrow pencil-like beam providing extremely high power due to the fact that it concentrates its energy in the main lobe, while beams produced by former antenna systems had considerable side lobes. The antenna system is enclosed in a gyrotron vacuum casing (8). A high power microwave source including a gun and cavity portion (1) releases a microwave beam of the  $TE_{m'n}$  type (with values of 15 and 2, for m and n respectively). The beam is converted in the partial mode converter (2) into a mixture of waves still containing 70 to 85% of the dominant  $TE_{m'n}$  mode and between 10 and 20% of the additional  $TE_{m'n-1}$  and  $TE_{m,n+1}$  type modes; hereby the mutual phase relationship is such that the additional modes are both in counterphase with respect to the dominant mode. The mixture of modes is then radiated to a collimating reflector (3) provided with a control hole (4) for the passage of the electron beam issued by the converter. As the mixture has an azimuthal polarization with axial n-fold symmetry concentrating the power in a ring, the control hole does not increase the energy losses of the microwave radiation. Due to the fact that there are practically no side lobes, the entire microwave energy is directed to the annular zone of the reflector shaped in a way to concentrate the deflected radiation in a focus point (5) constituting the antenna's outlet. The reflector's active surface is corrugated in such a way that the radiated mode mixture with its circular electric field is converted into the linearly polarized  $TEM_{00}$  mode which can be directly used as the propagation mode either in the free space or in an appropriate wave guide. From the corrugated reflector, the beam passes through a semi-cylindrical radiofrequency window (6) while the electron beam is projected against a depressed collector (7) at the remote end of the casing (8). The antenna can convert any  $T_{m,n}$  mode into a linearly polarized narrow beam of very high power and frequencies.

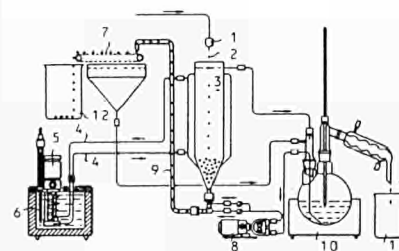


### 3. A PROCESS FOR PRODUCING GRANULATED PARTICLES FROM A POWDER

Inventors: E. Zamorani, G. Brambilla — Ref.: EUR PAT 2248

By this process **the particles of a powder which is insoluble in water can be transformed into substantially larger granulated particles** of a very regular spherical shape, which have the advantage of much safer and easier manipulation in applications such as the distribution of fertilizers, handling of radioactive or toxic wastes, or the treatment of filter muds.

The original powder is first mixed with an aqueous solution of a methyl, hydroxypropyl methyl, and/or etheric hydroxybutyl methyl cellulosis. The mixture passes through an injection tube (1) and falls, droplet by droplet (2) into a bath (3) containing an aqueous solution of at least one salt or metallic hydroxyde not reacting with the droplet particles which, as they are falling, solidify rapidly in the form of regular spheres of uniform dimensions. The bath is thermostated by a heat conveying circuit (4) with a pump (5) and a thermocouple (6) for ensuring a temperature of about 80°C. After sedimentation at the bottom of the bath, the particle spheres are conveyed by the precipitating aqueous solution injected by another pump (8) through a conduit (9) to a drying grid (7). From there they are collected in a recipient (12), washed in water and dried at a temperature between 80° and 100°C.



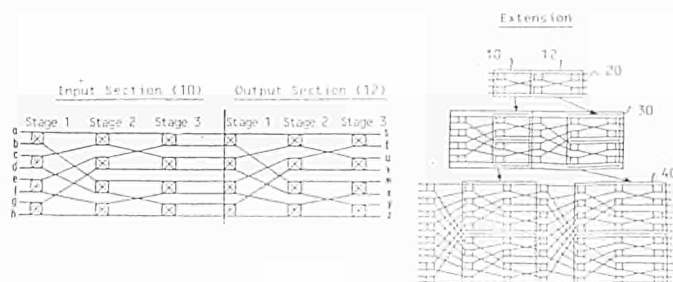
The process is very economic because the pump (8) can also serve to recycle the precipitating solution in a solution concentration column (10) the outlet of which collects the distilled water in a recipient (11). If it is desired to destroy the cellulose compound, the particles can be calcinated at a temperature between 450° and 500°C. Thermal treatment exceeding 500°C may be applied for sintering the particles or transforming them into ceramic products. Should the mechanical resistance of the granulated particles be insufficient, cement powder can be added to the basic powder. Due to the regular spherical shape of the granulated particles, the process can be applied to a great variety of basic powders.

## 4. A MODULAR INTERCONNECTING NETWORK

Inventor: H. Richter mg. Ref.: EUR PAT 2258

This new interconnecting network consists of two identical parts (10, 12) containing the same number 'n' of stages, two identical modules and two three-stage baseline networks. Therefore, it can be assembled in a simple and economic manner.

N inputs (a, b, .. h) can simultaneously be connected selectively to each one of N outputs (s, t, .. z). The **input section** (10) comprises the consecutive stages '1 to n-1' of an 'n-stage' baseline network and N outputs. The **output section** (12) contains an 'n-stage' baseline network and N outputs as well as N inputs connected to the N outputs of the input section. The order of the 'n-1' stages following the inputs is the same in both baseline networks.



In both baseline networks, the cross switches have two inputs and two outputs controlled by a control circuit. The inputs are each one in contact with a switch connecting them upon a control signal selectively to two switch-output connections. The network includes modules of interconnecting networks having a number of inputs and outputs smaller by one or more powers of two. Thus, an interconnecting network (20) having four inputs can be extended to another one (30) having eight inputs which in turn can be extended to the next one (40) having sixteen inputs. As each interconnecting network contains the modules of the next smaller one in unchanged form, any extension becomes simple and economical.

**Applications:** Telecommunications (like crossbar switches), data processing technology, computers for highspeed Fourier transformations, computer systems interconnecting a plurality of processors in a blockage-free manner.

Further information on the inventions above can be obtained from: CEC, DG XIII/C/1, Ms L. Gerlach (JMO B4/068), L-2920 Luxembourg — Tel.: (352) 4301-2922, Telex: 3423/3446, Fax.: (352) 4301-4129

## CEC GRANTED SCHOLARSHIPS ON INDUSTRIAL PROPERTY RIGHTS FOR STUDENTS

The Danish Innovation Centre organized, as a pilot project, a one week course in Copenhagen to **familiarize students with the management of the transfer of technology and know-how**. The project was subsidized by the CEC within the framework of the SPRINT Programme. The idea behind this activity, developed by the CIT subgroup on Industrial Property Rights and Innovation, is to **familiarize students with patent and innovation matters**.

The CEC granted small scholarships allowing participants to cover their international travel as well as a part of their accommodation costs in Copenhagen. Subjects covered by the course: technology transfer of scientific results, novelty searches before starting scientific work, innovation, invention, evaluating, protection strategies, licensing procedures, and issues in patent licensing. The course took place from 18-24.8.1990 at the Danish Innovation Centre.



The participants of the course

Contact: Mr P. Cordsen, The Danish Innovation Centre, P.O.Box 141, DK-2630 Taastrup, Fax: (45) 42 99 10 16.

At its next meeting at the end of October 1990 the CIT subgroup will discuss a **continuation and possible extension of this activity**. Contact: Mrs L. Gerlach, CEC, DG XIII-C-1, JMO B4/068, L-2920 Luxembourg, Tel: (352) 4301-2922, Fax: (352) 4301-4129.

## ANNOUNCEMENT OF OPPORTUNITIES TO PROMOTE THE RESULTS OF COMMUNITY R&TD UNDER THE VALUE PROGRAMME — PROPOSALS INVITED

The main objectives of the **VALUE** programme are to disseminate the results of **Community R&TD** activities and to improve their level of utilization (see I&TT, 1/90, page 18).

The Commission invites **proposals for participation in the VALUE programme** which must relate to a result of a project from a **Community R&D programme** laid down in the **framework programme**. This announcement is consequently addressed **only to research contractors who are or have been participants in Community projects** and to their

licensees and/or exploitation partners. This announcement is **open-ended**. A separate information file is available for each of the following types of aid or assistance proposed: services of consultants and experts, prototypes and tests, promotional activities and knowledge transfer.

**Contact:** CEC, DG XIII/C/2, JMO, L-2920 Luxembourg, Tel.: (352) 4301-3610 or 4301-3453, Fax.: (352) 4301-4129 (see also OJ, C 134 of 1.6.1990).

### VALUE — 55 PROPOSALS SUBMITTED FOR PROMOTING THE RESULTS OF COMMUNITY RESEARCH

Following the announcement published in June 1990, 55 proposals relating to different Community research projects, with a total budget of 9.12 million ECU, have been submitted for support under the **VALUE** programme. The proposals will now be evaluated and decisions taken by the end of October.

The **VALUE** programme supports four kinds of actions (services of consultants and experts, promotional activities, prototypes and trials, and technology and knowledge transfer actions) for promoting the **exploitation of the results of Community RTD** (see I&TT 1/90, page 16 and I&TT 3/90, page 24).

As the **VALUE** programme is 'open-ended' with no fixed deadlines, research contractors who are or have been participants in Community projects and their licensees are invited to submit their proposals at any time. Nevertheless, it is intended that the next evaluation procedure will be early 1991.

**Contact:** CEC, DG XIII/C/2, JMO, L-2920 Luxembourg, Tel.: (352) 4301-3610/3453, Fax.: (352) 4301-4129 (see also O.J. C134 of 01.06.90).

## VALUE AWARENESS SEMINARS ON EXPLOITATION OF RESEARCH RESULTS FURTHER SEMINARS IN LISBON AND DUBLIN

The **VALUE** programme has as its general objective the promotion of the **effective utilization** of the results of Community RTD activities (see I&TT, 1/90, page 18). In view of this objective **VALUE** has recently launched a new activity: the **organization of short awareness seminars on exploitation of research**.

A first seminar was held in Madrid on 31 May and 1 June 1990. It was addressed to Community RTD contractors (90 persons attended) with the double objective of introducing them to this field and of presenting and defining ways in which the **VALUE** programme could assist them with their particular problems in the follow-up of their research results. It was organized in cooperation with the Centro de Desarrollo Tecnológico Industrial (CDTI), the Oficina de Transferencia de Tecnología (OTT), Electricité de France (EDF) and the Institut National

des Sciences et Techniques Nucléaires (ISTN). The programme included lectures and discussions on topics such as marketing of research, legal protection of results, technology market surveys, value analysis, funding of innovation, the search for industrial partners and negotiation of agreements, etc.

The **next seminars** of this type will be organized in **Lisbon** (29-30 Oct. 90) and in **Dublin** (end of November).

Further information on to the Lisbon seminar can be obtained from: Mr J. Alves, CEC, DG XIII/C/2, JMO C4/07, L-2920 Luxembourg, Tel.: (352) 4301-4765, Fax.: (352) 4301-4129, and on the Irish seminar from: Mr P. Trousson, (same address and fax as above), Tel.: (352) 4301-4297.

## DOSES: STATISTICAL EXPERT SYSTEMS CALL FOR TENDERS FOR COORDINATED ACTIONS

The **DOSES** ('Development of Statistical Expert Systems') programme calls for projects likely to produce results for official statistics, and projects which implement or prepare implementation of techniques associated with the study of **Artificial Intelligence**. These actions deal with: Subjects which are intrinsically international in character, problems which have to be solved for the purposes of harmonization, problems arising in a similar manner in various Member States,

and problems arising in connection with the processing of confidential data. The Community will be financing: Meetings, seminars (including travelling expenses), staff exchanges, dissemination of information, and secretarial or administrative expenses.

Funds are still available in 1990. **Contact:** Mr M. Perremans, CEC, JMO, C5/35, L-2920 Luxembourg, Tel.: (352) 4301-4947, Fax.: (352) 4301-4771.

## PATINNOVA PROCEEDINGS SOON AVAILABLE

## STRATEGIES FOR THE PROTECTION OF INNOVATION

Edited by U. Täger and A. von Witzleben



**PATINNOVA'90** was the first European congress to deal with **patent and innovation matters**. It focused on how to promote innovation and accelerate the **spread of new technologies** by means of the patent system. Its objective was to improve general awareness of the **economic and marketing importance of the patent system**. The 30 contributions, written by leading experts in the field of patents and innovation, address the following issues: protection and filing policies, the role of patent attorneys and other patent consultants in filing and protection strategies, patent-assisted marketing of inventions from research institutions, patent disputes and litigations etc.

The **PATINNOVA'90** proceedings will be published by the end of 1990 by Kluwer Academic Publishers, Spuiboulevard 50, P.O. Box 17, NL-3300 AA Dordrecht and Deutscher Wirtschaftsdienst, Marienburger Strasse 22, D-W-5000 Köln 51, ISBN 0/7923-1062-4.

## PATINNOVA 92

LISBON, MAY 1992

PATINNOVA 92 will be held in Lisbon in May 1992. Contact: Mr F Liisberg, CEC, DG XIII-C, JMO B4/070, L-2920 Luxembourg, Tel.: (352) 4301-4182, Fax.: (352) 4301-4129.

### SOON TO BE PUBLISHED: INVENTORY OF MEASURES TO PROMOTE INNOVATION THROUGH THE PATENT SYSTEM IN THE MEMBER STATES OF THE EC

D. Deniozos, T. Giannitsis, L. Tshipouri, A. von Witzleben

Patent has become a determining factor in the process of innovation. This study, made on behalf of the CEC, DG XIII, has the aim to list the variety of measures, by which the Member Countries of the CEC seek to improve the utilisation of patent and research results and thus indirectly, to enhance their technological and innovation capabilities. This study shows that there exist quite important differences not only in the

types of actions implemented, but also in the way to combine various measures into a 'package', in the aim to increase their overall effectiveness.

The study will be available by the end of 1990.

A copy can be ordered via Mrs L. Gerlach, CEC, DG XIII-C-1, JMO-B4/068 L-2920 Luxembourg, (352) 4301-2922.

### EDUCATION: ENHANCING EQUALITY OF OPPORTUNITY

The Education Council has adopted a resolution on the integration of **young people with disabilities** into ordinary systems of education. Member States are invited to support the Commission of the EC in the preparation in 1992 of an overall report on the implementation of the **CEC HELIOS programme** on measures to be taken in favour of people with disabilities. The conclusions of the Council also invite Member States to review teacher training courses with a view to strengthening aspects concerning **equality of opportunity**

**for girls and boys**. The Council and the Ministers also adopted conclusions which provide for the organization of meetings of **senior officials to promote the exchange of experience and information**, so as to improve the quality of education in the Community. The Ministers of Education had an exchange of views on distance training and on the education of young people for enterprises.

Contact: EURYDICE (see address below).

### FORCE PROGRAMME FOR THE DEVELOPMENT OF CONTINUING VOCATIONAL TRAINING ADOPTED

The Council has adopted a decision establishing an action programme for the development of **continuing vocational training** in the EC (FORCE). The aim of the programme, which is to run for four years (1 January 1991 — 31 December 1994), is to support and complement the policies and activities developed by and in the Member States in the area of continu-

ing vocational training, — a field essential to the completion of the internal market.

Information on the schemes above: EURYDICE European Unit, rue Archimède 17, Bte 17, B-1040 Brussels, Fax.: (32) 2 230.65.62.

## ***PROTEAS to be demonstrated at Esprit Conference 12 - 15 November***

The PROTEAS database is an initiative supported by the European Commission under the Value programme and will soon be available through CORDIS. Its aim is to provide a European structure for the dissemination of R&D results in Europe in order to promote:

- information exchange
- technological and scientific collaboration
- industrial and commercial exploitation

PROTEAS covers a broad spectrum of pre-commercial research results including new technologies/know-how and significant findings in basic research. Entries on PROTEAS are gathered through direct contact with the researchers and developers and have applications in every sector of technology including Materials and Industrial Manufacturing Technologies, Biology and Medicine, IT and Telecommunications, Environment and Energy.

### ***Sources of data***

There are over 800 current offers of technology/know-how on PROTEAS from 16 EC and EFTA countries. Data collection is targeted at a wide variety of organisations ranging from educational research establishments to SMEs and large multinational companies. Results currently on PROTEAS arise from an impressive array of nationally funded research (eg Alvey, UK; CNRS, France), international CEC (eg ESPRIT, BAP) and other research programmes (eg COST, EUREKA), private sector (eg Physik und Datentechnik GmbH, Pirelli Informatica spa), and public sector research (eg Institut Pasteur, the Danish Welding Institute, Fraunhofer Gesellschaft).

### ***Placing an entry on PROTEAS***

If you have developed a prototype, methodology, process, device or any other scientific or technical development including spin-off, you can promote your findings, research capability or seek partners for collaboration by placing an entry on PROTEAS. Specific applications include attracting joint venture agreements, seeking manufacturing, licence or marketing agreements, developing spin-off technologies, offering your know how/consultancy, promoting the results of collaborative research in which you have participated, finding partners for further joint collaborative research, or attracting contacts by making your research results available to other organisations. In addition an initiative by EUROTECH CAPITAL is under development which will allow companies on PROTEAS to seek venture capital investment for transnational high technology projects.

***Placing an entry is free of charge.*** Entry forms allow you to give non-disclosive details of your results and to specify the type of collaboration you are seeking. They will be returned to you at six-monthly intervals for updating.

To obtain further details on PROTEAS, entry forms for submitting your data or a password for access please contact Ms Ailie Menzies, Longman Cartermill Ltd, Technology Centre, St Andrews, Fife KY16 9EA, Scotland, UK Telephone Number: +44 334 77660, Fax Number: +44 334 77180 or visit our stand at the ESPRIT conference in Brussels from 12-15 November.

## **SEMINAR ON DOSIMETRY IN DIAGNOSTIC RADIOLOGY**

**19-21 March 1991, Luxembourg**

The aim of this seminar organized by the Commission of the EC and the PTB Braunschweig, in collaboration with the ICRU and WHO, is to present the results of the **intercomparison programmes in the field of dosimetry** conducted by the Commission in cooperation with competent institutes and organizations. The seminar is intended to provide information for those active in the field of radiology as well as manufacturers and regulatory organizations.

Further information may be obtained from: CEC, DG XI-A-1, Mr K. SCHNUER, Tel.: (352) 4301-6388, Fax.: (352) 4301-4646.



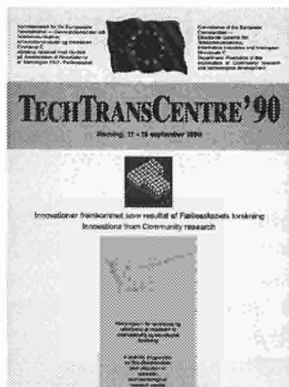
## TECHTRANS CENTRE 1990 SUCCESS

There was indeed an international touch to TechTrans Centre '90, which ended on September 15. People from 43 countries visited TechTrans Centre '90, which was held concurrently with the large Danish building trade fair, 'Herning Fair '90'. Representatives from both industrialized countries and developing countries were gathered in Herning for the exhibition. The next TechTrans Centre will probably be held in 1992. DG XIII-C of the CEC exhibited a selection of research results, chiefly in the field of the environment. The photo shows Dr A.S. Strub, Director of DG XIII-C, welcoming the visitors to the CEC stand.

Contact: Project Manager, Ms. H. Marklund or Press Officer, Mr K. H. Jorgensen, Exhibition Centre Herning, Vardevej 1, DK-7400 Herning, Tel.: (45) 97 12.60.00, Fax.: (45) 97 22.30.60.



### Tech Trans Centre '90 CEC CATALOGUE



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Please return to: Mr M. Leipold, CEC, DG XIII/C/2, B4/086, JMO, L-2920 Luxembourg, Tel.: (352) 4301-2936, Tlx: 3446 CO-MEUR LU, Fax: (352) 4301-4129

✂ .....

## EXPO THERMA

ATHENS, 10-18.11.1990

The CEC will participate in the **EXPO THERMA** fair (Solar Energy, Air-Conditioning, Heating, Insulation, Materials and Equipment Exhibition) in Athens. The following innovations from **Community R&D programme** will be presented: 'Ispra Mark 13A' flue gas desulphurization process; spontaneous downward heat transport; **diesel particulate trap** (see page 35); **revive**, a new system for the recycling of mixed scrap plastics; '**PROTEAS**', Database of European Pre-commercial Results of RTD (see page 40); computer engineering of the fire resistance of composite and steel structure; **ARCHISOL**, ARCHitecture and SOLar energy project (see page 24); **TOWNSCOPE**: a computer aided management system for urban renewal; **AGIP PETROLI EMULSISTEM**, an emulsion of diesel oil and water used as a fuel for diesel engines; turning coal residues into a resources; supervisory control telemanipulationsystem; TV-Trackmeter; database of **BURNERS-BOILERS** in the Greek Market and Solar Thermal Product ELOT Standards for Performance and Reliability in Greece.

Information on the participation of the CEC at **EXPO THERMA** can be obtained from: Mr F. Engels, CEC, DG XIII/C/2, JMO, L-2920 Luxembourg, Tel.: (352) 4301-2356, Tlx.: 3423/3446 COMEUR LU, Fax.: (352) 4301-4129. Contact for EXPO THERMA: EXPO HELLAS S.A. Palaiologoy 7, P.O. BOX 76077, 17110 Nea Smirni-Athinai, Tel.: (30) 9324154, Fax.: (30) 9322842.



## BRITE/EURAM AERONAUTICS

Under its BRITE/EURAM programme, the CEC is running a research initiative specifically relating to **aeronautics** funded with 35 million ECU. The present programme implementation comprises 28 projects, covering aerodynamics, acoustics, systems and propulsion. Participation by industry and research includes centres from Sweden and Norway.

The EC is preparing **open days** to present the major results of the research for next Spring. The operators involved (industry, research, officials) are currently discussing possible follow-up activities. Contact: Mr B. Cocorinos, CEC, DG XII-H, 75 rue Montoyer, 7/10, B-1040 Brussels, Tel.: (32) 2 235.93.48, Fax.: (32) 2 235.06.56.

## REACTOR SAFETY RESEARCH — THE CEC CONTRIBUTION

Edited by W. Krischer

'Reactor Safety Research' presents the proceedings of a seminar held by the Commission at the end of its 1984-88 reactor safety research programme. As such it gives a comprehensive overview of the recent activities and main results achieved in the CEC Joint Research Centre and national laboratories throughout Europe on the basis of shared-cost projects.

Publication arrangements by CEC, DG XIII-C, EUR 12343 EN, ISBN 1-85166-515-3. Published by Elsevier Science Publishing Ltd, Crown House, Linton Road, Barking, Essex IG11 8JU, England, 1990 Brussels — Luxembourg

## DECOMMISSIONING OF NUCLEAR INSTALLATIONS

Edited by K. Pflugrad, R. Bisci, B. Huber, E. Skupinski

The EC is concluding research on the **decommissioning of nuclear installations** with the prime objective of developing effective techniques and procedures to ensure the protection of man and his environment against the potential hazards of nuclear installations that have been finally shut down.

Publication arrangements by CEC, DG XIII-C, EUR 12690 EN, ISBN 1-85 166-523-4. Published by Elsevier Science Publishing Ltd, Crown House, Linton Road, Barking, Essex IG11 8JU, England, 1990 Brussels — Luxembourg.

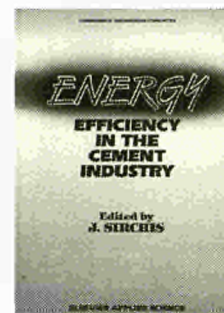
## STANDING CONFERENCE ON HEALTH AND SAFETY IN THE NUCLEAR AGE

This publication contains the proceedings of the second meeting of the Standing Conference entitled '**Informing the Public on Improvements in emergency preparedness and nuclear accident management**' (EUR 12 682 EN, FR, DE, ISBN 92-826-1335-6).

## ENERGY EFFICIENCY IN THE CEMENT INDUSTRY

Edited by J. Sirchis

Publication arrangements by CEC, DG XIII-C, EUR 12756 EN, ISBN 1-85166-546-3. Published by Elsevier Science Published Ltd, Crown House, Linton Road, Barking, Essex IG11 8JU, England, 1990 Brussels- Luxembourg



## COMBINED PRODUCTION OF HEAT AND POWER (COGENERATION)

Edited by J. Sirchis

The European Energy Policy objectives for the year 1995 call for adequate energy supply, controlled energy prices and increased concern for the environment. All these constraints necessitate the rational exploitation of the primary energy sources by the EC Member States.

Publication arrangements by CEC, DG XIII-C, EUR 12714 EN, ISBN 1-85166-524-2. Published by Elsevier Science Publishing Ltd, Crown House, Linton Road, Barking, Essex IG11 8JU, England, 1990 Brussels — Luxembourg



## HIGH TEMPERATURE MATERIALS FOR POWER ENGINEERING 1990

This two-volume publication addresses the field of **high temperature materials**, with particular emphasis on the results of the European Collaborative Programmes with reference to work performed elsewhere. A series of 29 coordinated papers gives an overview of significant achievements.

Publication arrangements by CEC, DG XIII-C, EUR 12806, ISBN 0-7923-0925-1 (Part), ISBN 0-7923-0926-X (Part II), ISBN 0-7923-0927-8 (Set), 1990 Brussels and Luxembourg

## ADVANCES IN BIOLOGICAL TREATMENT OF LIGNOCELLULOSIC MATERIALS

Edited by M.P. Coughlan and M.T. Amaral Collaço

Proceedings of a Workshop on Advances in Biological Treatment of Lignocellulosic Materials, held in Lisbon, Portugal, from 25 to 27 October, 1989, under the auspices of COST.

Publication arrangements by CEC, DG XIII-C, EUR 12671 EN, ISBN 1-85166-542-0. Published by Elsevier Science Publishing Ltd, Crown House, Linton Road, Barking, Essex IG11 8JU, England, 1990 Brussels — Luxembourg

## PUBLICATIONS ON COMMUNITY-FUNDED RESEARCH THE SCIENTIFIC AND TECHNICAL COMMUNICATION UNIT OF DG XIII

The magnitude and range of CEC R&D programmes makes the Commission of the European Communities a major **supplier of scientific and technical information**. Each year the Commission itself issues about 600 scientific and technical publications, and many hundreds of papers resulting from the programmes are published in the scientific journals by the scientists concerned.

The **list of subjects** treated is as broad as the range of scientific and technical areas touched by European Community programmes. It includes coal, steel and nuclear research, renewable forms of energy, industrial health and safety, biotechnology, medicine, agriculture, information technology and telecommunications, and environmental research, to name a few of the major subject areas.

The publications from the Commission include technical reports of individual research projects, details of the overall progress made by the programmes, proceedings of conferences and of meetings of contractors working in particular programmes, and reports of studies executed for the Commission on topics of scientific and technical interest. Most of the publications are issued through the Office for Official Publications of the European Communities. As its name suggests, this is the 'official' publisher for the European Community institutions. It is located in Luxembourg, and has sales agents in every Member State of the Community and in many other countries. A few publications — about 15 % of the total — are placed with specialised scientific and technical publishing houses in the Member States and are available through these publishers. The unit comprises also a **conference organisation team**, which is responsible for the technical implementation of conferences on issues arising from Community funded R&D.



Mr D. Nicolay and Mrs L. Eisen of the DG XIII-C conference team together with Mr A. Poos, Head of Protocol Luxembourg on radioactive waste treatment in Luxembourg (see page 8)

### EUROABSTRACTS AND EABS DATABASE

To keep track of this flow of information, the Commission maintains the **EABS database** containing bibliographic details and abstracts of publications, papers in the scientific and technical literature, and conference papers resulting from the activities of the Community. At present EABS contains about **50,000 entries** and is **updated monthly**. It is accessible **free-of-charge** on the European Communities' ECHO host. EABS will become a component of the new **COR-**

**DIS information service** on Community activities in research and technological development due to be launched this year (see page 45).

Associated with EABS is the monthly abstracting journal Euroabstracts, containing the same bibliographic information and abstracts as the database. EABS and **Euroabstracts** both include information on how to obtain every listed publication.

The Commission also issues a quarterly brochure **Publications on Science & Technology** highlighting recent publications, a journal reporting results of R&D carried out under the European Coal and Steel Community Treaty — **Progress in Coal, Steel and Related Social Research** — and occasional listings of publications in particular subject areas (see page 45)

For more information on EABS, **Euroabstracts** and **Progress in Coal, Steel and Related Social Research**, contact: Dr R. Rapparini, CEC, DG XIII/C-3, L-2920 Luxembourg, Tlx.: 3423/3446 COMEUR LU, Fax.: (352) 4301-4129 or ECHO Customer Service, P.O. Box 2373, L-1023 Luxembourg, Tel.: (352) 48.80.41, Fax.: (352) 48.80.40.

For more details of **Publications on Science & Technology** contact: Dr E. Phillips, CEC, DG XIII/C-3, L-2920 Luxembourg, Fax.: (352) 4301-4129.



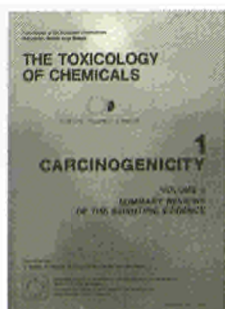
Mr A. Strub, Director of the DG XIII-C, discussing with Mr E. Phillips, Head of the Publications Unit

### EUREKA RESEARCH PROJECT VISIMAR VISUALISATION AND SIMULATION OF MARINE ENVIRONMENTAL PROCESSES

The objective of the project **VISIMAR** is to develop a low cost system for **producing animated sequences of marine environmental processes**, which are based upon observational data, remote sensing, in-situ and in-vitro (tank) measurements and upon empirical and deterministic models. The technical goal is the development of a video animation device. The configuration will be evaluated with existing technology and acceptable prizes for the system components. The hardware of the final product will be based upon the integration of existing technology. The scientific goal is the production of animated sequences of model results and the development of a suitable methodology for film production and a guideline for time-dependent graphical representation.

The CEC participates actively in this project. Contact: JRC, Institute of Remote Sensing, Mr W. Schrimpf, T.P. 690, Building 69, I-21020 Ispra, Tel.: (39) 332 78.91.11, Fax.: (39) 332 78.96.48.

NEW PUBLICATIONS ON THE TOXICOLOGY OF CHEMICALS:  
**SERIES ON CARCINOGENICITY**  
**SUMMARY REVIEWS OF THE SCIENTIFIC EVIDENCE**



Edited by: A. Berlin, M. Draper, E. Krug, R. Roi, M.Th. Van der Venne

Volume 2 EUR 12481 EN, ISBN 92-825-9790-3, 1990, 13.75 ECU, Publication arrangements: CEC, DG XIII-C

Volume 2 provides summary reviews of the scientific evidence that underlines the **assessment of the carcinogenicity of 21 widely-used chemicals**, including 10 nickel compounds. The reviews do not set out to be encyclopaedic, but rather to provide concisely and systematically **the most relevant scientific findings** from studies in animals, from results of short-term tests and from epidemiological studies. The books will appear annually and should prove a valuable guide to those with responsibilities for worker protection.

Available from the Office for Official Publications of the EC, 2 rue Mercier, L- 2985 Luxembourg, Fax.: (352) 49.00.03.

**REDUCING AIR POLLUTION**  
**BEST AVAILABLE TECHNOLOGIES (BAT) NOT ENTAILING EXCESSIVE COSTS FOR:**

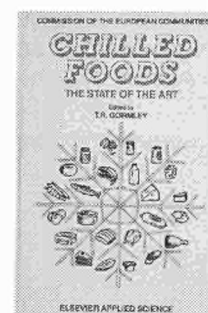
- THE MANUFACTURE, STORAGE AND HANDLING OF BENZENE (EUR 13003)
- AMMONIA PRODUCTION (EUR 13002)
- NITRIC ACID PRODUCTION (EUR 13004)
- THE MANUFACTURE OF CEMENT (EUR 13005)
- SULPHURIC ACID PRODUCTION (EUR 13006)

The Council of the EC adopted a Directive on 28 June, 1984 aimed at the provision of measures and procedures to prevent or reduce air pollution from stationary sources (i.e. industrial process or utility plant). A key element in the Directive is the concept in the **Best Available Technology 'that does not entail excessive costs' (BAT) to prevent or reduce air pollution**. The Commission has taken the initiative in this regard by establishing a Working Party of experts to designate **BAT pertaining to the production of ammonia and other substances**. The first five reports are now available. Published by the CEC, DG XIII, Brussels and Luxembourg, 1990.

**CHILLED FOODS — THE STATE OF THE ART**  
 Edited by T.R. Gormey

This publication brings together a wealth of European expertise on **chilled foods** and the 15 chapters will be of considerable benefit to all involved in the production, distribution and retailing of chilled foods.

Publication arrangements by CEC, DG XIII-C, EUR 12744 EN, ISBN 1-85166-479-3, Published by Elsevier Science Publishing Ltd, Crown House, Linton Road, Barking, Essex IG11 8JU, England, 1990 Brussels — Luxembourg



**IL LAGO DI GARDA**

**EVOLUZIONE TROFICA E CONDIZIONI AMBIENTALI ATTUALI**

Questo studio sulle condizioni ambientali del più grande lago della CE è un esempio particolarmente significativo del modo in cui le competenze scientifiche del CCR possono essere sfruttate per concorrere alla definizione delle basi necessarie per la tutela e la gestione di un'importante risorsa idrica in uno Stato Membro.

Publicato dalla CCE, DG XIII-C, EUR 12925, ISBN 92-826-1569-3, Bruxelles — Lussemburgo, 1990



**EUROPEAN WORKING GROUP ON SOLAR THERMAL PLANT MONITORING**

**Proceedings of the 1st and 2nd meetings**

Edited by: Mr E. Aranovitch, Mr D. Gilliaert, Mr C. Buscarlet and Mr A. Filloux

Monitoring solar thermal systems is not an easy task. It requires a knowledge of sensors, data handling and appropriate analysis, and the results must finally be presented in an understandable form. This publication proposes ideas to resolve this situation. Published by CEC, DG XIII-C, EUR 12740.



FREE SPECIMEN COPY AVAILABLE:

## NEW JOURNAL ON COAL, STEEL AND RELATED SOCIAL RESEARCH

**PROGRESS IN COAL, STEEL AND RELATED SOCIAL RESEARCH** is a European Journal edited by the Commission of the EC and published quarterly by the Office for Official Publications of the EC in Luxembourg. Its contents deal with information **relevant to the coal and steel industries** in the Community; in this sense it replaces the former Section II of Euroabstracts but its scope is wider: it includes in-depth articles, interviews with administrators and policy-makers and practical information on Community action in the coal and steel sector (ECSC programmes, ECSC loans, Framework Programme activities concerning the use of solid fuels for energy generation and the restructuring of declining regions, etc.), statistics, etc.

Subscription information can be obtained from the Office for Official Publications of the European Communities, L-2985 Luxembourg.

A specimen copy can be ordered with the form below:

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Please return to Mr R. Rapparini, Commission of the European Communities, DG XIII/C/3, JMO B4/89, L-2920 Luxembourg, Tel.: (352) 4301-2780, Tlx: 3423/3446 COMEUR LU, Fax: (352) 4301-4129

✕ .....

## CORDIS: COMMUNITY R&D INFORMATION SERVICE SOON TO BE OPENED TO PUBLIC

A new public electronic service named CORDIS (Community R&D Information Service) is addressed to all those interested in the CEC Research and Technological Development activities. Offered by ECHO (see page 15), the objective of CORDIS IS 'to disseminate public information on all Community RTD activities'.

The service will begin its operation with three out of a number of databases planned: one **describing Community programmes (RTD-PROGRAMMES)**, the second providing **summaries of individual projects** under these programmes including the organisations involved (RTD-PROJECTS), and the third incorporating the **EABS database**, which has been in operation for more than ten years and **includes abstracts** of reports generated from Community scientific and technical projects (see page 43). Within a year **other databases** will be added providing information on **R&D results** and prototypes, Commission proposals for new programmes, and contact

persons in the Member States. Smaller databases should include collections of acronyms and lists of organisations that might be interested in partnerships before a Call for Proposals.

Those wishing to subscribe can obtain registration forms from ECHO. Initially, the service will be **free of charge** to users, apart from communication costs. The information in the databases will be in **English**, as the most widely used language in the scientific community. The CORDIS service is part of the VALUE Programme (DG XIII), but there is also close cooperation with DG XII (Research), DG VI (Agriculture), DG VII (Transport), DG XI (Environment), DG XIV (Fisheries), DG XVII (Energy) and the TFHR (Education and Training). It is intended that the service should become operational in November 1990.

Contact: ECHO, P.O. Box 2373, L-1023 Luxembourg, Tel.: (352) 58804, Fax.: (352) 48.80.40.

## ELECTRICAL ENGINEERS EXTEND THEIR COOPERATION NEW EUROPEAN JOURNAL ON ELECTRICAL POWER GENERATION LAUNCHED

Eight national associations of electrical engineers, which have already been working together for many years in a European Federation (EUREL), intend to work even more closely **together in publishing their scientific periodicals**. Since January 1990 they have jointly published '**European Transactions on Telecommunications and Related Technologies (ETT)**'. From 1991 they will publish '**European Transactions on Electrical Power Engineering (ETEP)**', which will contain scientific contributions from all sectors of electrical power engineering, especially power generation,

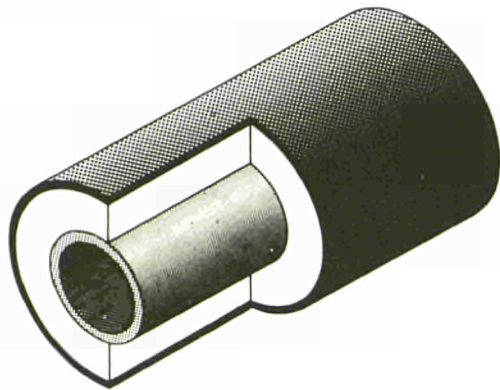
transmission and distribution, power electronics, machinery and drive systems. The signatories to the agreement are: AEE (E), AEI (I), AIM (B), ASN/CFEF (SF), KIVI (DK), SEV/ASE (CH), SRBE/KBVE (B), VDE (D). Dr A. Strub, Director of DG XIII-C will preside over the signing of Agreements on 26.10.1990.

Contact: Dr H.D. Sprang, ETEP-Redaktion, vde-Verlag gmbH, Merianstrasse 29, D-6050 Offenbach, Tel.: (49) 69 84.00.06-25, Fax.: (49) 69 83.10.81.





**teknologisk**



*European Conference*

**Preinsulated Pipes**

12-14 November 1990,  
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- Economic and financial aspects
- Future trends
- Environmental aspects

**Additional Information**

Organizing chairman:  
Leif Amby  
Danish Technological Institute,  
tel. +45 86 14 24 00, ext. 6058.

**Registration**

Registration no later than  
8 October 1990 (Note! Limited  
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**sprint**

The conference is a transnational  
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Language: English.

**Danish Technological Institute**

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Deutsch-Französisches Symposium  
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Anwendung, Möglichkeiten und  
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l'environnement**

Applications, possibilités et limites  
des échangeurs de chaleur

**Waste heat utilisation  
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Application, possibilities and limits  
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28. – 29. 11. 1990, Köln / Cologne

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ON THE  
ADVANCEMENT OF  
REHABILITATION  
TECHNOLOGY

November 5 - 8, 1990  
Maastricht  
The Netherlands

First announcement and call for papers

Organized in cooperation with ISPO  
(International Society for Prosthetics and  
Orthotics),  
ISAAC (International Society for  
Augmentative and Alternative  
Communication) and  
ISEK (International Society for  
Electrophysiological Kinesiology) in the  
MECC, the Maastricht  
Exhibition and Congress Centre.

CONFERENCE EUROPEENE  
SUR LE PROGRES DE LA  
TECHNOLOGIE EN  
READAPTATION  
FONCTIONNELLE

Du 5 au 8 Novembre 1990  
Maastricht  
Pays-Bas

Première annonce et premier appel aux  
communications

Organisée en coopération avec ISPO  
(International Society for Prosthetics and  
Orthotics),  
ISAAC (International Society for  
Augmentative and Alternative  
Communication) et  
ISEK (International Society for  
Electrophysiological Kinesiology) au MECC,  
le Centre d'Exposition et de Congrès à  
Maastricht aux Pays-Bas.



**isaac**



Conference secretariat, Scientific programme inquiries, Dr T.  
Gerritsen, Dr M. Soede, Institute for Rehabilitation Research,  
Zandbergsweg 111, NL-6432 CC Hoensbroek, Tel.: (31) 45  
22.43.00, Fax: (31) 45 22.63.70.

## SPRINT CALL FOR PROPOSALS FOR SPECIFIC PROJECTS

Specific Projects constitute a new type of **SPRINT** project. They are concerned with **transferring new technologies** already applied in one sector or region to another sector or region in the Community **where those technologies are not yet used**, so that this new application in itself constitutes an innovation.

The projects may involve any industrial sector and any technology which has recently become available. However, preference will be given to projects focusing on the applica-

tion of **'broad-spectrum'** technologies (such as biotechnology, manufacturing technologies, assembling technologies, etc.) in traditional industrial sectors and/or in sectors with a high 'social' utility (e.g. environmental, healthcare). The deadline for submission of projects is 7.12.1990.

**Contact:** Mr R. Kremer, CEC, DG XIII-C, JMO B4-105, L-2920 Luxembourg, Tel.: (352) 4301-3136, Fax.: (352) 4301-4544.

### SPRINT PROJECT ON VALUE ANALYSIS



Mr J.R. Tiscar, Secretary of the expert group on Value Analysis

One of the objectives of the **SPRINT** programme is to promote **relevant management disciplines** increasing the competitiveness of European businesses. Value Analysis is a management technique which guides firms in their first innovative steps. Although known, it is still under-used in Europe. Under its **SPRINT** programme the CEC has set up an expert group to devise strategies to support innovation by means of **VALUE ANALYSIS** at European level.

The aim is to analyse systematically how products can be improved at reduced cost while taking customer requirements into account. It is easily accepted by an SME manager as its economic objective is obvious from the outset and its technical content is clearly visible. **Three specific actions are currently supported by the CEC** in order to promote **VALUE ANALYSIS**: publication of a **multilingual glossary** on **VALUE ANALYSIS** in Europe, organisation of **promotional conferences** in different countries to make Value Analysis more widely known and a survey of the needs for transnational **training activities** in **VALUE ANALYSIS**.

The CEC has just published a **status report on bodies promoting VALUE ANALYSIS** in the Member States.

Order form: Please send me a copy of the **STATUS REPORT ON VALUE ANALYSIS** in DE FR EN

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Postal Code: \_\_\_\_\_ Town: \_\_\_\_\_ Country: \_\_\_\_\_

To be returned to: Mr J.R. Tiscar, CEC, DG XIII/C/4, JMO B4/92, L-2920 Luxembourg, Fax.: (352) 4301-4544.

### SPANISH VALUE ANALYSIS ASSOCIATION SET UP

Thanks to the support of the **SPRINT** programme it has been possible not only to promote the techniques of Value Analysis in Spain, but also to prepare for the **Spanish Value Analysis Association (ANAVA)**, which will nurture the awareness and utilization of this technique in a Member State where its use by firms has not hitherto been widespread. Moreover, and further to the support of the Industrial Engineering Association of Catalunya, a **regional association** has been constituted in Catalunya (**ACAVAL**). **ANAVA** will organise a **seminar on Value Analysis** methods in Sevilla on 28-26.10.90. Contact: **ANAVA, C/ Dr A. Cortés Lladó, 6, E-41004 Sevilla, Tel.: (34) 441.64.00, Fax.: (34) 441.63.00.**



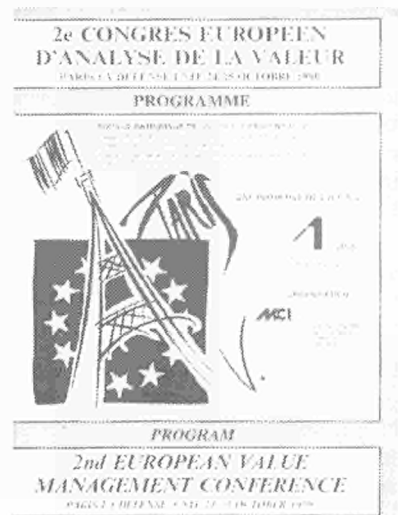
#### EUROTECH DIRECT, Birmingham, 2-4 July 1991

The Congress will present four important conferences on major technical advances in materials and processes; thermofluids engineering; machine system; computers in engineering.

Contact: Mr H.S. Stephens & Associates, 43 Manchester Street, London W1M 5PE, Tel.: (44) 71 224 4647, Fax.: (44) 71 224 4961.

#### ANALYSE DE LA VALEUR, 24-25.11.1990, Paris la Défense CNIT 24-25 Octobre

Contact: 8, rue de l'Isly, F-75008 Paris, Tel.: (33) 42 94.27.67, Fax.: (33) 42 93.29.67.



**ANVAR — 24 JOURNEES DE L'INNOVATION**

29 Novembre 1990

Les **journées de l'innovation** organisées par **Anvar** se tiendront le 29 novembre dans chacune des 24 régions françaises. Accessibles sur invitation, ces journées permettront de faire connaître les **axes stratégiques et les nouveaux produits de l'Agence** (aide au partenariat technologique européen, aide au transfert...).

Elles seront également rythmées par des débats sur

des thèmes choisis par chaque délégation régionale, notamment: l'Europe et l'innovation, Anvar/Eurêka pour le partenariat technologique et l'Anvar, un financement, mais aussi de la technologie, des partenaires, des conseils, des expertises...

Contact: ANVAR — Mme C. Jimenez, 43 rue de Caumartin, F-75436 Paris Cedex 09, Tel.: (33) 40 17.83.00.

**TECHNOLOGY TRANSFER OPPORTUNITIES WITH THE REGION OF MURCIA**

Information on firms in the region of Murcia looking for technology transfer agreements, cooperation possibilities etc. can be obtained from: Mr H. Alarcón Pomares, Instituto

de FOMENTO de la Region de Murcia, C/. García Alix, 17, E-30005 Murcia, Tel.: (34) 968 29.95.98, Tlx.: 67892 ICTO-E, Fax.: (34) 968 29.95.48.



**SFOR-COM '91 — 2nd SUBCONTRACTING EXHIBITION**

TURIN 5-8 JUNE '91

The 'SFOR-COM '91' exhibition is becoming increasingly relevant. It will enable companies to take prompt and concrete steps towards the following prime targets: diversifying their products, exporting to new markets, selling and purchasing licenses, keeping up to date with technological changes, finding and proposing sub-contracts, developing and offering technical services and extending their distribution networks. Contact: SAMMA, Via Vela 17, I-10122 Torino, Fax.: (39) 11 371.83.79.

**AUTO 2000 — PROJET DE COLLABORATION FRANCE-ITALIE DANS LE CADRE DU PROGRAMME SPRINT**

**AUTO 2000**, projet franco-italien qui associe le Nord-Est Franche-Comté et le Piémont, s'intègre dans ce programme SPRINT. Il a été présenté conjointement pour la partie française par: **SOPRIAT**, Société de Promotion de l'Ingénierie Automobile et du Transport, et l'**ADEBT**, Agence de Développement Economique de Belfort et du Territoire. Pour

la partie italienne par: le Centro Estero Camere Commercio Piemontesi (Turin). Contact: SOPRIAT, BP 392, F-25208 Montbéliard Cedex, Tél.: (33) 81 94.52.13, Fax.: (33) 81 94.25.26.



**THE SPRINT REACOL GROUP — ADHESIVES INFRASTRUCTURES IN THE EC**

**AN OVERVIEW OF THE POSITION IN BELGIUM, FRANCE, IRELAND, PORTUGAL, SPAIN AND THE UK**

**REACOL** was established in March 1990, with support from the SPRINT Programme. It has the overall objective of improving the competitiveness of the European manufacturing industry, particularly SMEs, by promoting the dissemination of **adhesives technology** into beneficial applications. Six organisations in six Member States are actively involved in the first year of the project: **The Welding Institute** (UK) — Lead Partner, **CETRA** (FR), **INSAMET** (SP), **CRIF** (B), **EOLAS**

(IR), **ISQ** (P). The review of the infrastructure relevant to adhesives technology in the countries represented by the members of the REACOL group forms part of the programme for the first year of the project.

The report on this research can be obtained from: Mr A. Duncan, The Welding Institute, Abington Hall, Abington, UK Cambridge CB1 6AL, Fax.: (44) 223 89.25.88.

**L'ETUDE DE FAISABILITE TECHNICO-ECONOMIQUE DE LA ROBOTIQUE DE CHANTIER EN EUROPE**

Le rapport de '**l'étude de faisabilité technico-économique de la robotique de chantier en Europe**', (subventionné par le programme SPRINT) comporte une analyse globale des atouts dont dispose l'Europe pour faire face au défi technologique mondiale dont les fers de lance sont le plus

souvent les Etats-Unis et le Japon. Contacts: Mr O. Roland, CEBTP, Domaine de Saint-Paul, B.P. 37, F-78470 Saint-Rémy-lès-Chevreuse, Tel.: (33) 1 30 85.21.48, Fax.: (33) 1 30 85.24.87.



## SPRINT TECHNICAL ASSISTANCE UNIT STARTED WORK

SAC Hitec has been contracted by the CEC to provide the **Technical Assistance Unit for its Strategic Programme for Innovation and Technology Transfer (SPRINT)**. The programme, which is designed to improve the innovative capacity of European industry by providing a technology transfer infrastructure, was originally established in 1984. Since that time the CEC has employed its own team of experts to provide technical assistance. As the external Technical Assistance Unit, SAC Hitec will assume **responsibility for additional administrative demands** created by SPRINT's remarkable success.

To support the programme effectively, SAC Hitec has set up an **office in Luxembourg**, close to the SPRINT headquarter, from which its team of experts will respond to SPRINT requirements throughout the EC. The SAC Hitec Technical Assistance Unit will undertake a **number of tasks** vital to the sustained success of SPRINT. These include preparation of draft contracts and monitoring the implementation of proposals for technology transfer projects, organising annual and regional contractors' meetings, assisting the Commission in improving efficiency and effectiveness of networks and specific projects, and promoting SPRINT and its benefits throughout Member States.

The main expert responsible for the SPRINT Technical Assistance Unit is **Mr M. Arblaster**. 'With the impending removal of trade barriers in 1992, it is vital that an effective

technology transfer infrastructure is established. This is certainly the view that the Commission takes. Otherwise, Europe would not have a sufficiently broad technological base to enable it to win in world markets. SPRINT is the initiative by which this infrastructure will be developed. As an organisation, SAC Hitec is delighted to be a part of it'.



The SPRINT technical assistance unit: M. Arblaster, T. Boylan, J. Kyrtoudis, M. Hamlyn

**Contact:** Mr M. Arblaster, Leading expert, SPRINT Technical Assistance Unit, 119 Av. de la Faiënçerie, L-1511 Luxembourg, Tel.: (352) 46.55.88, Fax.: (352) 41.55.50.

## SPRINTLINK ELECTRONIC MAIL SYSTEM PILOT TEST LAUNCHED



SPRINT participants during the training session

many of the electronic databases available. The SPRINT contractors will participate in a monitored test of the system to evaluate its usefulness in improving the efficiency of the networks — chiefly in the field of exchanging profiles of companies seeking partners for technology transfer agreements. The results of the test will be presented at the **SPRINT Contractors' Annual Conference in Luxembourg on 29 and 30 January 1991**. If the results are favourable the system may be made available to other contractors in the SPRINT Transnational Technology Transfer Networks.

45 representatives of twelve SPRINT Transnational Technology Transfer Networks gathered in Luxembourg on 6 and 7 September for the **launch and training meeting of the pilot SPRINTLINK electronic mail and conferencing system**. The SPRINT contractors will use a specially prepared package developed by **EUROKOM**, the provider of computer conferencing originally established to cater for the participants in the ESPRIT Programme of DG XIII. The special package also includes access to **ECHO — the European Community Host Organisation** — allowing the participants to sample

many of the electronic databases available. The SPRINT contractors will participate in a monitored test of the system to evaluate its usefulness in improving the efficiency of the networks — chiefly in the field of exchanging profiles of companies seeking partners for technology transfer agreements. The results of the test will be presented at the **SPRINT Contractors' Annual Conference in Luxembourg on 29 and 30 January 1991**. If the results are favourable the system may be made available to other contractors in the SPRINT Transnational Technology Transfer Networks.

**Contacts:** Mr I. Traill, CEC, DG XIII C/4, JMO, L-2920 LUXEMBOURG Tel: (352) 4301 4532 Fax: (352) 4301 4544 or: Prof J.T. McMullan, New University of Ulster, Coleraine, Co. Londonderry, N.Ireland Tel: (44) 265, 44141 Fax: (44) 265 40900

## MEDICAL DIAGNOSTIC KITS: TECHNOLOGY TRANSFER UNDER THE SPRINT PROGRAMME

Shield Diagnostics Ltd. of Dundee, Scotland's leading producer of medical diagnostic kits for hospital laboratories, has added Gamma S.A of Liège to its network of European distributors following a recent agreement with the Belgian company.

Both companies produce fast and accurate **diagnostic kits using advanced biochemical technology**. Shield's products, which have undergone extensive field trials organised by Gamma in Belgium in order to obtain government health

service approval for reimbursement to hospitals, include a Urinary Tract Infection test and a range of tests for the detection of specific autoantibodies in blood. This deal was forged through the **SPRINT** Programme.

**Contact:** Mr R. Lauder, Scottish Dev. Agency, 120 Bothwell Street, Glasgow G2 7JP UK, Tel.: (44) 41 248.2700, Fax.: (44) 41 221.37.12 or Mr M. Ramsay, Purvis & Company, Glimerton House, St Andrews, FIFE KY16 8NB, UK, Fax.: (44) 334 77.754.



## NEWS FROM TII, THE EUROPEAN ASSOCIATION OF INNOVATION SUPPORT SERVICES

### NEW TII SERVICE — TECHNOLOGY REQUEST NETWORK

The TII Technology Request Network (TRN) is a method and a European network to help **firms searching for specific technology** (new products, process technology, technical consultancy etc.) to find **technology suppliers** (research centres, industrial research associations, firms wishing to licence out technology, etc) potentially able to meet their needs. TRN technology requests are prepared by experienced consultants from TII's 430 member organizations spread across Europe, using a common, carefully tested profiling format. In the interests of quality, only TII members may enter

requests into the TRN, and all requests are screened for consistency and clarity before onward distribution to TRN subscribers. Non-members may subscribe to the TRN in order to receive requests. They can specify areas of technology of special interest to them and will then receive only requests in those areas.

The TRN will go **operational in November**, following extensive testing of its procedures in a six-month pilot operation earlier this year. Contact: TII (see address below).

### NEW TII SEMINARS

#### I. MARKETING R&D SERVICES AND LICENSING RESEARCH TO INDUSTRY

Compiègne (F), 14-15 November, 1990

This two-day seminar offers a European exchange of views and practice on two key aspects of **research-industry technology transfer**. It is designed for technology transfer and industrial liaison executives in universities, technical in-

stitutes and other research institutions as well as external consultants who work with them. Participation will be strictly limited to 40. Simultaneous interpreting between English and French. Provisional reservations possible.

#### II. BUSINESS COOPERATION WITH EASTERN EUROPE

HANNOVER (D), DECEMBER 12-13

What are the **realistic** opportunities for **east-west technology** transfer, licensing, joint ventures and other forms of business co-operation in the short- to medium-term? The speakers will all be **western** consultants with extensive personal experience of negotiation and implementing co-operation deals with firms in Eastern Europe. Principal focus:

Czechoslovakia, eastern Germany, Hungary and Poland. Participation will be strictly limited to 40. Principal working language English, with simultaneous interpreting from French and German into English. Provisional reservations possible.

### NEW TII PUBLICATIONS

#### I. POLICY PAPER ON RESEARCH-INDUSTRY TECHNOLOGY TRANSFER

TII has recently published a 30 page policy discussion paper, '**Technology Transfer from Higher Education to Industry in Europe: Obstacles to its Development and Proposals for Helping to Overcome Them**', highlighting the key role, actual and potential, of higher education institutions in support of **industrial innovation** in Europe. The paper reviews the main obstacles encountered by higher education institu-

tions wanting to develop effective technology transfer services to industry and gives brief descriptions of over 20 of some of the most innovative technology transfer initiatives in European and American higher education. Publication: September, 1990 (French version available in October, 1990), Publisher: TII asbl, Luxembourg, Price: 15 ECU including postage and packing.

#### II. TII DIRECTORY OF MEMBERS — 1990 EDITION

The 1990 edition of the TII Directory of Members contains detailed profiles of the 430 member organizations of TII. It is the **only European directory of innovation-support organizations**. In addition to standard contact information (names, address, phone and fax numbers, etc) each profile shows the principal innovation-support services offered by the organization, its working languages, areas of technology

specialization, the industrial sectors and geographical areas in which it is principally active, total personnel broken down by function, and free-text entries outlining its principal technical resources and other characteristics. The Directory is generously indexed to allow rapid searches. Publication: October, 1990, Publisher: TII asbl, Luxembourg, Price: 125 ECU, including postage and packing.

#### III. INNOVATION SUPPORT SERVICES IN EUROPE

This book presents most of the papers given at a European conference **Enterprise, Innovation and 1992: Innovation Support Services in Europe** organized jointly by TII and the 'Association la Route des Hautes Technologies' in Nice (F) on

October 26-27, 1989. The conference was designed to review the recent development of the newly emerging innovation-support professions in Europe and to consider the likely impact of 1992 on innovation in the European economy.

Policy makers as well as consultants will find the book a rich source of ideas and real-world examples of how to help innovation and innovative firms flourish. Publication:

November, 1990. Publisher: TII asbl, Luxembourg, Price: 50 ECU including postage and packing.

**For further information or to order, please contact:** TII, 3, rue des Capucins, L-1313 Luxembourg, Tel.: +352-46 30 35, Fax: +352-46 21 85, Orders for publications should be accompanied by a cheque made payable to 'TII asbl' or by proof of payment (e.g. copy of bank transfer) and by a clear indication of your full name and postal address. Payments by bank transfer should be made to: A/c No.: 30-235389-14-2, A/c Holder: TII asbl, Bank: Banque Générale du Luxembourg

**Order form** — Please send me further information:

THE TECHNOLOGY REQUEST NETWORK  
 SEMINAR — RESEARCH — INDUSTRY TECHNOLOGY TRANSFER  
 SEMINAR — BUSINESS COOPERATION WITH EASTERN EUROPE

Name: \_\_\_\_\_  
 Firm/institution: \_\_\_\_\_

Please send me:

Policy paper on Research-Industry Technology Transfer  
 TII Directory of Members — 1990 Edition  
 Enterprise, Innovation and 1992

Address: \_\_\_\_\_  
 Postal Code: \_\_\_\_\_

Payment method: cheque enclosed  
 copy of bank transfer enclosed


Town: \_\_\_\_\_

To be returned to TII (see address above)

### EUROTECH CAPITAL: FUNDING OF TRANSNATIONAL HIGH-TECHNOLOGY PROJECTS

The Community's **EUROTECH CAPITAL** scheme is aimed at stimulating private-capital funding of **transnational high-technology projects** (THTPs). Under the scheme, the CEC grants the **EUROTECH CAPITAL label** to European financial bodies, which have an investment capacity of at least ECU 50 million and which agree to earmark at least 20 % of these resources to acquiring holdings in companies — preferably SMEs, — undertaking transnational high-technology projects (THTPs). The **label** carries with it the right to a number of benefits. Firstly, a **financial contribution**, equal to 4 % of the 'reserved part' earmarked by the financial body for investment in THTPs and secondly, preferential access to **two services** offered by the Commission — **EUROTECH PROJECTS** and **EUROTECH DATA**.

**EUROTECH PROJECTS** is a database containing technical and financial information on company projects stemming from Community research and development programmes (ESPRIT, BRITE, etc.), and on transnational high-technology projects recognized by the Commission. A feasibility study concluded at end of July 1990 the considerable interest in this project on the part of Venture Capitalists. Hence, the database will be operational in 1991. Thanks to **EUROTECH DATA**, financial bodies will be able to obtain within two weeks a rapid overview of the transnational high-technology projects proposed to them by the promoters of the projects.



**SEVENTH ANNUAL CONFERENCE**

CEPS, 33 rue Ducale, B-1000 Brussels, Fax.: (32) 2 511.59.60.

**The EC and Political and Economic  
 Reconstruction in Eastern Europe and  
 the Soviet Union**

Palais d'Egmont  
 Brussels  
 November 14-16th, 1990

Further information on **EUROTECH CAPITAL** scheme can be obtained from: Mr R. Liberali, CEC, DG XVIII, Bâtiment Wagner, L-2920 Luxembourg, Tel.: (352) 4301-6261, Fax.: (352) 436322, Tlx.: 3366 Surfin LU

### EACRO, THE EUROPEAN CONTRACT RESEARCH ORGANISATION



**Contract Research Organisations (CROs)** offer adaptive technology transfer and customized innovative and competitive solutions — across the full range of industrial sectors. This differentiates them from other operators in technology transfer and cooperative research, and their European associations (**FEICRO** and **TII**). To further clarify the profession's leading role in technological development for the CEC, the European Association of Contract Research Organizations was founded at the end of 1988. This shortly followed the Commission's DG XIII report showing the extent of the CRO profession in Europe.

Today EACRO represents 32 companies, with over 18 000 employees and revenues of more than ECU 1 billion. The original circle of five countries that founded EACRO will soon be enlarged to include members from other EC countries and possibly affiliated members from EFTA countries.

EACRO publishes a new Newsletter 'EACRO News', which can be obtained free of charge from: Mr J.P. Husson, EACRO, B.P. N 3, F-78373 Plaisir Cedex, Tel.: (33) 1 34 81.85.81, Fax.: (33) 1 30 54.04.14.



**CEEDA'91 — CONFERENCE ON ELECTRONIC DESIGN AUTOMATION**

**26-28 March 1991**

Bournemouth Polytechnic in England is hosting an international 3-day conference encompassing the latest concepts of **Concurrent Engineering and Electronic Design Automation**. The main theme of the conference will be the application of design automation tools throughout the product design

cycle. The conference will provide an unequalled forum to discuss the latest in: concurrent engineering & VLSI techniques, testability, description languages and synthesis, education.

Contact: Sa'ad Medhat, Department of Electronic Engineering, Bournemouth Polytechnic, Wallisdown Road, Wallisdown, Poole BH12 5BB, Tel.: (44) 202-595 4922/4, Fax.: (44) 202-513 293.

**BEST PRACTICE FOR THE CHEMICAL AND PROCESS INDUSTRIES**

**A CONFERENCE AND TECHNOLOGY MARKETPLACE**

**London 26-27 March 1991**

**Supported by the CEC under the SPRINT Programme**

Contact: Mr R. Glover, the R&D Clearing House, 2.22 Whitechapel Technology Centre, 75 Whitechapel Road, London E1 1DU, UK, Tel.: (44) 71 375 1382, Fax.: (44) 71 247 2217.

**INTERNATIONAL TECHNOLOGY CONFERENCE**



Storstrøm Business Development Centre  
Denmark, 19-20 November 1990



**WORKSHOP**

**INTERFACES IN NEW MATERIALS**

**19-20 November 1990**

**UCL**

Université Catholique de Louvain  
LOUVAIN-LA-NEUVE  
Belgium

Place Croix du Sud 1, Lecture Hall S11

*Organized by : Institut Interfacultaire des Sciences Naturelles Appliquées - UCL  
: Centre de Recherche des Matériaux Avancés - UCL*

*Supported by Commission of the European Communities  
**SPRINT Programme***

Contact: Storstrom Business Development Centre, Marienbergvej 80, DK-4760 Vordingborg, Tel.: (45) 55 34.01.55, Fax.: (45) 55 34.03.55.

Contact : **Dr P. GRANGE**  
Catalyse et Chimie des Matériaux Divisés  
Place Croix du Sud 2 - Bte 17 Tel : 32-(0)10/47 36 48  
1348 Louvain-la-Neuve Fax : 32-(0)10/47 47 45  
Belgium Telex : 59037 ucl b

**TECNOPARK PROCEEDINGS NOW AVAILABLE**

The proceedings of **TECNOPARK 90**, International Conference on Technology Innovation Policies and Regional Development, are now available. This conference was supported by the CEC under the **SPRINT Programme**.

Contact: Mr F. Lopez Peña, Avda. Alcade Portanet, E-36210 Vigo, Tel.: (34) 23 57.42/23.59.17, Tlx.: 83336 CZFV-E, Fax.: (34) 29.24.23

## E.C. INTERNATIONAL INVESTMENT PARTNERS

### JOINT VENTURES IN ASIA, LATIN AMERICA AND THE MEDITERRANEAN REGION



E.C. International Investment Partners, offers **financial support** for several types of operation which might be undertaken during the course of an investment project in one of the eligible countries in Latin America, Asia or the Mediterranean. The programme works as follows: **1. Identification of potential projects and partners** (Countries and sectors with investment potential, E.C. firms with financial resources for involvement in joint ventures, and local firms which would be suitable candidates as joint venture partners with European investors). **2. Operations prior to launching a joint venture** (search for partners for an individual investment project and other issues, as marketing and feasibility studies, setting up pilot production units and the manufacture of prototypes). **3. Financing of capital requirements** (the setting up of a new joint venture or the expansion of an existing one by providing part of its capital requirements). **4. Training and management measures.**

EC International Investment Partners applies only to financial institutions, Chambers of commerce, professional associations and public agencies to undertake general studies. Operations

prior to launching a joint venture and financing of capital requirements apply to firms wishing to undertake a joint venture investment project.

Contact: Mr P. Philippe, CEC, DG I/K/3, BERL 04/106a, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 236.05.49, Fax.: (32) 2 235.97.23 or 60423.

### EVCA TO MANAGE EC SEED CAPITAL NETWORK

EVCA has been awarded a substantial contract by the CEC to manage the **Seed Capital Fund Network** which is currently being set up. The Network is composed of the 24 seed funds receiving support from the EC under its **Seed Capital Scheme**, together with six others that wish to be involved. In

the future the Network will be open to other seed capital funds and possibly to other funds investing largely in seed-stage projects. The CEC plans to provide financial support for the Network during the first five years of operation.

### VENTURE SURVEY SHOWS THE '1992 EFFECT' ACROSS EUROPE

EVCA's survey of the European venture capital industry has produced some fascinating results and a clear indication of the '1992 effect' on venture capital fund raising and investment policy. The **total European pool** of funds-invested or available for investment grew by 34 % to 22.9 billion ECU in 1989. Particularly good news was the marked increase in the level of investment during the year which rose **year-on-year**

by 24 % to an impressive 4.3 billion ECU — a clear sign that the industry is able to invest all the funds it has been raising. The investment pattern as a whole revealed a greater interest in cross-border activity. The EVCA survey, which is sponsored by **KPMG Peat Marwick McLintock** and has recently been published in the EVCA Yearbook, was carried out by Venture Economics (see I&TT 3/90, page 48)

### EVCA: VENTURE CAPITAL FUNDS FOR EASTERN EUROPE NECESSARY

'The whole of Eastern Europe is a vast hunting ground for venture capital', said Helmut Kirchner of the Matuschka Gruppe at the EVCA annual symposium in Monte-Carlo. Eastern European speakers, however, said that their coun-

tries were more in need of joint ventures with Western companies which can bring management and marketing experience. Venture investors cannot expect big returns in the early years: patience is needed.

### SUCCESS FOR VENTURE CAPITAL IN ITALY

Venture capitalists are starting to speak Italian since, despite the legal and fiscal regime, the venture business is booming. Italy attained fourth position in Europe in 1989 with 1.2 billion ECU of funds available and a growth rate of 29 %. The invest-

ment level was the second highest in Europe, rising by 54 % from one year to the next.

Contact: EVCA, Keibergpark, Minervastraat 6, Box 6, B-1930 Zaventem, Tel.: (32) 2 720.60.10, Fax.: (32) 2 725.30.36.

### THE RETAIL TRADE IN EASTERN EUROPE

A study on **retail trade** in Eastern Europe was commissioned by DG XXIII, which is responsible for SMEs. It reveals that the markets of Eastern Europe offer **massive opportunities** for retailers in Western European countries (400 million potential clients), provided this sector can develop on the basis of

Western techniques.

The study may be obtained from: Mrs F. Di Mola, CEC, DG XXIII, ARLN 80 2/74, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.16.42, Fax.: (32) 2 235.89.84 (available are the study in English and a summary in French).

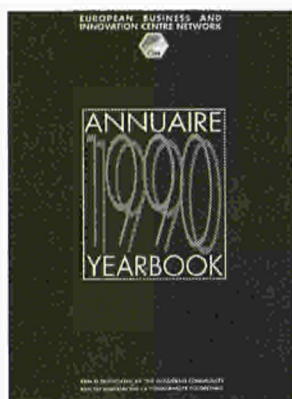
## STRENGTHENING REGIONAL CAPACITIES FOR RESEARCH, TECHNOLOGY AND INNOVATION THE STRIDE PROGRAMME

The **STRIDE** programme is designed to **improve regional capacities in research and development, technology and innovation**. The new programme applies only to the Community's Objective 1 (backward regions) and Objective 2 regions (regions seriously affected by industrial decline). STRIDE will run for three years (1990-93) in the first instance. The CEC (European Regional Development Fund and European Social Fund) will allocate 400 million ECU in grant funding to the programme. Additional funding in the form of loans will be available from the European Investment Bank and the European Coal and Steel Community.

**Applications for STRIDE** funding can be made only by a Member State, and only in the context of an overall development programme. Interested institutes wishing to propose projects for possible STRIDE support should, therefore, contact the appropriate governmental authorities in their country. The Member States must submit their applications to the CEC **before 4.2.1991** (see OJ, C 196 of 4.8.1990)

Contact: The national authorities responsible for regional policy (chiefly ministries of economic affairs, industry, development and research)

## EBN: AN INTERNATIONAL NETWORK OF BUSINESS AND INNOVATION CENTRES (BICs) YEARBOOK 1990 PUBLISHED



The **EBN** was established in 1984 with the support of the CEC within the framework of its policies for **regional development**, SME's and innovation. The aim of the EBN is to establish an **international network** providing all its members with the means of making a more effective contribution to the development of innovative and technologically up-to-date local economies in Europe. In practice EBN is a clearing house for the exchange of commercial and technical information which promotes the **establishment of efficient BICs in Europe**, provides professional support and guidance to new BICs, promotes public private partnership at a European level, facilitates the promotion of the enterprises created or supported by BICs and promotes development of links between BICs and their clients with universities, research centres, and laboratories. EBN has just published its **1990 Yearbook** providing information on the activities of this organisation and its members (50 ECU).

Contact: EBN, rue Belliard 205, B-1040 Brussels, Tel.: (32) 2 231.07.47, Fax.: (32) 2 231.10.16.

## STAR: SPECIAL TELECOMMUNICATIONS ACTION FOR REGIONAL DEVELOPMENT

The aim of the **STAR** Programme is to contribute to the development of **specific less-favoured regions** of the EC by providing small and medium-sized enterprises with **better access to advanced telecommunications services**. Capital subsidies and interest grants for loans can be awarded within the framework of STAR.

The **proceedings of a STAR Seminar** in Lisbon, 23-24 May 1990 and further information can be obtained from: Mr F. Toledano, CEC, DG XIII, 200 rue de la Loi, B-1049 Brussels, Tel.: (32) 2 236.02.35, Fax.: (32) 2 236.30.22.



## LIST OF AREAS ELIGIBLE FOR A COMMUNITY INITIATIVE CONCERNING THE ECONOMIC CONVERSION OF COAL-MINING AREAS (RECHAR)

The CEC has published the list of areas eligible for assistance in the framework of a Community initiative concerning the

**economic conversion of coal-mining areas (RECHAR)** in OJ C 177 of 18.7.1990.

## VALOREN — EXPLOITATION OF THE INDIGENOUS ENERGY POTENTIAL

The **VALOREN** Programme aims to **improve the economic basis of disadvantaged regions** of the Community by **improving the supply of energy at the local level**. VALOREN includes three areas of emphasis: use of local energy resources, (renewable sources of energy, small deposits of turf and brown coal), rational use of energy

in SMEs, promotion and better use of energy potential at local and regional level. VALOREN works with capital subventions or interest grants for loans. The beneficiaries are mainly governments and regional bodies.

Contact: Mrs Van Der Wee, CEC, DG XVI, CSTM 05/28, 200 rue de la Loi, B-1049 Brussels, Fax.: (32) 2 235.01.49

## ORDER FORM FOR "INNOVATION AND TECHNOLOGY TRANSFER" ('I & TT')

"Innovation and Technology Transfer" is published by DG XIII-C of the Commission of the European Communities and reports regularly on the Community's R&D policy under the RTD Framework Programme, new research results originating from the CEC Joint Research Centre and the implementation of the SPRINT Programme and related matters.

Innovation and Technology Transfer (5-6 issues per year) can be obtained free of charge.

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To be returned to Mr Edward Phillips, CEC, DG XII/C/3, JMO, L-2920 Luxembourg, Fax: (352) 4301-4544

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Jean Monnet House  
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London SW1 P 3 AT  
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Tlx.: 23208 EURUK G  
Fax: 222 09 00/222 81 20

Under the **Sprint Programme** the Commission of the EC is promoting the **Europeanisation of conferences on new technologies**. Here is an overview of some of the forthcoming conferences:

Date	Title	Venue	Organizer	see page or contact
24-25.10.90	2ème Congrès d'Analyse de la Valeur	Paris	AFAV	47
25-26.10.90	Cross. Trade Europe 90	Milan	Xcoms International Srl	Via dell'Orsa Maggiore, 23 I-20060 (MI) Cassina de Pecchi
5-8.11.90	Dutch Innovation Programme for Aids for Disabled People	Maastricht	Institute for Rehabilitation Research	46
7-8.11.90	A Estratégia das PME em Inovação e Transferência de Tecnologia	Oporto	Universidade de Porto	Mr Ed. Guimares Do Campo Alegre 877, P-4100 Porto
12.11.90	Preinsulated Pipes	Aarhus	DHI	46
13-16.11.90	Impact of Regulations on the Bio-Industries	The Hague	Biostrategy Associates Ltd, Cambridge	Waterside 10, UK-CB7 4AZ ELY, Cambridgeshire
21-24.11.90	European Management game and system simulation	Bad Neuenahr	Deutsche Planspiel-Zentrale	Mr W.E. Rohn Vonkeln 51 D-5600 Wuppertal 12
26-27.11.90	Benefits of use and transfer of new technology in SMEs	Naestved	Business Centre of Storstrom	Mr K. Primdal Marienbergevej 80 DK-4760 Vordingborg
27-28.11.90	Recherche et Innovation dans la CE	Paris	Centre d'Etude et de Prospective	Mr L. Tribot Av. C. Floquet 44, F-75007 Paris
28-29.11.90	Umweltschutz durch Nutzung von industrieller Abwärme	Cologne	TÜV-Akademie Rheinland	46
5-7.12.90	Emerging information technologies	Amsterdam	European Institute for Technology	Mr E.Paris Via E. Noris, 1 I-37121 Verona

Further information on the abovementioned conferences can be obtained **only** from the addresses indicated above. Information on the SPRINT scheme for the Europeanization of technology transfer conferences can be obtained on written request from: Mr J.R. Tiscar, CEC, DG XIII/C/4, B4/102, JMO, L-2920 Luxembourg, Fax.: (352) 4301-4129/4544.

**SCIENCE, TECHNOLOGY AND SOCIETY:  
THE CHALLENGE OF THE WIDER EUROPE**

The aim of the European Parliament and the CEC in organising the forum entitled '**Science, Technology and Society: the Challenge of a Wider Europe**' is to establish a dialogue between scientific and technological researchers and the users of science and technology, and between all the countries of Europe, including Central and Eastern Europe, the European Free Trade Area and the USSR, as well as the EC Member States. Among the speakers are: Mr **Pandolfi**, Vice-President of the CEC and Mr **Baron**, President of the EP (**Strasbourg, 8-10 November 1990**).

Participation is by invitation only. Contact: Mr P. Venet, CEC, DG XII, SDME R2/86, 200 rue de la Loi, B-1049 Brussels, Fax.: (32) 2 236.33.08.

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