

INNOVATION AND TECHNOLOGY TRANSFER

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Note to readers

The meetings of the Council of Ministers on 6 and 14 March paved the way for a substantial reinforcement of the Commission's technology transfer activities.

As regards the direct promotion of innovation and technology transfer, i.e. the improvement of conditions permitting the rapid transnational spread of new technologies, the Council gave the green light for a new **SPRINT** Programme covering the period from 1989 to 1993. In this issue of **I&TT** you will find information on this new programme and on the Commission's intention to launch the next SPRINT call for proposals.

The Council also adopted a 'common position' on the **VALUE** Programme, whose aim is to improve the transfer into applications of results obtained within the R&D actions of the Framework Programme for Research and Technological Development. We expect the European Parliament to approve VALUE ('second reading') by the end of spring 1989.

The progress of these two new programmes will enable the Commission to upgrade its current technology transfer activities and to launch a series of new initiatives using advanced techniques and methods of dissemination, protection and exploitation. We at DG XIII-C see our challenge as being to assist the European Technology Community as much as possible in its effort to adapt to the forthcoming Single Market. We hope that **I&TT** will be able to make its modest contribution to reaching this ambitious goal.

A.S. Strub

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

SPRINT CALL FOR PROPOSALS
see page 28

NEW SPRINT PROGRAMME ADOPTED

At its meeting of 6 March the Concil of Ministers approved the **SPRINT** Programme (**S**trategic **P**rogramme for **I**nnovation and **T**echnology Transfer) for the period 1989-1993*. The programme will be provided with a budget of 90 million ECU, and will thus enable the Commission not only to reinforce and develop the actions taken during the previous SPRINT pilot phase, but also to launch significant new initiatives in the area of innovation and technology transfer.

SPRINT will, according to Vice-President PANDOLFI, fulfill an essential role in the Commission's efforts to promote the international competitiveness of European industry, to overcome the challenges of the Internal Market and to translate the Community objective of improving its economic and social cohesion into more concrete terms.

SPRINT's main lines of action

On the basis of the experience acquired during the pilot phase, the main phase of SPRINT will have three principal lines of action:

1. Reinforcement and further development of the European infrastructure of services for innovation through the establishment or the consolidation of intra-Community networks of agents for technology transfer and support for innovation (such as consultants, collective sectoral research centres, experts in design, quality, value analysis, science parks, etc.).
2. Support for projects demonstrating by practical examples the intra-Community transfer of innovation, focused chiefly on the application of existing technologies to receptive sectors.

These operations will combine 'awareness' actions, demonstrations of the possibilities of the technologies concerned, training and technical support to enterprises, effective execution of these transfers and the setting-up of close partnerships between the enterprises, research centres or universities, local economic agents and financial organizations.

3. Improvement of the environment for innovation through a better knowledge of its workings and an increased concertation between the Member States and the Commission. Two series of complementary projects will be implemented:

- a close follow-up of innovation in Europe ('European Innovation Monitoring System')
- the reinforcement of the concertation and exchange of experience between the Member States and the Commission.

Further to the Council decision on SPRINT a new call for proposals will be launched by the beginning of May (possible deadline 7 July 1989).

*The official starting date of the SPRINT Programme is not 6 March 1989, but the date of its publication in the Official Journal within the next few days.

See also page 28

SPRINT CALL FOR PROPOSALS

COUNCIL ADOPTS COMMON POSITION ON THE VALUE PROGRAMME

The Council of Ministers adopted a common position on the proposed 38 million ECU, four-year (1989-1992) programme, which now goes to the European Parliament for a second reading before final approval.

VALUE is part of the Community's 1987-1992 Framework Programme for Research and Technological Development. Its main objective is to improve the transfer of results from specific R&D actions of the Framework Programme into industrial application. Two sub-programmes are foreseen:

SUB-PROGRAMME I: DISSEMINATION AND UTILISATION OF THE RESULTS OF COMMUNITY RTD ACTIVITIES

The objective is to disseminate by appropriate channels the results of Community R&D activities so as to ensure an improvement in the level of exploitation and the resulting creation of economic activities by the following means:

1. **Collection and dissemination of information** concerning existing or planned Community RTD programmes, using appropriate methods and means, such as computerised data bases, electronic information services, information and dissemination centres in the Member States and editing and distribution of printed matter (newsletters, brochures, reviews, articles).
2. **Identification, characterisation and screening**, to establish their suitability for dissemination or exploitation, **of relevant results of Community RTD** activities by examining contracts and reports, assessing their scientific/technical and utilisation potential and examining the need for protection by means of patent applications, etc.
3. Action on **legal protection** of the results by having recourse to selected patent agents/advisers, examining reports to ensure confidentiality and protection before publication, assisting contractors and inventors, and through information and awareness activities.
4. **Dissemination of results** which need not be protected by publications (books, reports, summaries, newsletters, etc.), organisation of and participation in seminars, conferences, exhibitions, etc., organisation of targeted dissemination activities, transfer of knowledge by (short-term) secondment of research workers participating in Community RTD projects, collaboration with and assistance to organisations in the Member States in setting up mechanisms for dissemination and electronic means such as data bases and associated services.

5. **Promotion of the exploitation** of relevant results by assessing, with the help of experts, the potential for exploitation of the results, providing expert advice in the setting-up and planning of exploitation projects, assisting in matters of legal and technical protection, exhibitions, assisting in finding partners for joint ventures or work under licence, providing financial and technical support for developing laboratory prototypes for collaborative precompetitive use, and advising participants in finding financial support from third parties.

SUB-PROGRAMME II: COMPUTER COMMUNICATIONS NETWORKS

The objective of this sub-programme is to contribute to the creation of a common integrated computer communications infrastructure and associated services, as well as to develop a network linking up the research and development community in Europe.

1. General support to the development of computer communications networks in the field of RTD.

Technical assistance and support to the RARE (Réseaux associés pour la recherche européenne) Association, particularly its pan-European projects (e.g. in the message handling and file transfer areas), to the implementation phase of the EUREKA COSINE project, and to Member States wishing to develop or adapt networks for the purposes of this programme.

2. Work on requirements for confidentiality and integrity of Community RTD information.

VALUE will call upon the assistance of outside experts in promoting the exploitation of relevant RTD results. To this end appropriate calls for proposals might be launched after final approval of VALUE by Parliament. The Commission has just published an **invitation to tender** (see page 13), chiefly in order to continue the dissemination and utilization of the results of Community RTD not covered by the framework programme, and to cover current dissemination activities (until such time as VALUE is adopted).

Further information on VALUE can be obtained from Mr J.N. Durvy, Commission of the European Communities, DG XIII/C/2, B4/107, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-3610, Tlx: 2423 / 3446 COMEUR LU, Fax: (352) 4301-4129.

Commission of the European Communities, Directorate-General XIII-C

FIRST ANNOUNCEMENT

PATINNOVA '90

MADRID, 24-27 MAY 1990

Palacio de Congressos

- STRATEGIES FOR THE PROTECTION OF INNOVATION - IMPROVING THE ENVIRONMENT FOR EUROPE'S COMPETITIVENESS

PATINNOVA '90 will be the first European conference dealing with 'patent and innovation' matters. It will focus on how to promote innovation and accelerate the spread of new technologies by means of the patent system.

Its overall objective is to improve general awareness of the economic and marketing importance of the patent system.

PATINNOVA '90 aims to have a lasting impact on those who should be concerned in Europe.

PATINNOVA '90 will both highlight to the public the importance of property rights in the innovation process and bring together those currently working in the field of industrial property rights for a mutual and transnational exchange of views and experience.

The following issues will be addressed:

- impact of the patent system in the Member States and for the single market planned for 1992;
- importance of protection for the marketing strategies of SMEs and large firms;
- identification of obstacles for marketing strategies related to industrial property rights (e.g. litigation issues, patent fees, etc.);
- exchange of positive and negative experience in the exploitation of property rights (by bringing together patent and marketing experts);
- impact of national promotion activities for obtaining patent protection;
- relevance of patents and other protection rights for researchers in public institutions (in particular in universities).

The **final version of the programme and an information package** will be available in July 1989. They can be obtained on written request from Mr A. v. Witzleben, Commission of the European Communities, DG XIII/C/1, B4/091 Jean Monnet Building, L-2920 Luxembourg, Tlx: 2423 / 3446 COMEUR LU, Fax: (352) 4301-4129.

COUNCIL DECIDES ON FOUR COMMUNITY RESEARCH AND TECHNOLOGICAL DEVELOPMENT PROGRAMMES

The Council has taken a series of important decisions concerning research and technological development. It adopted definitively four specific programmes to which the European Parliament has already given a second reading:

1. INDUSTRIAL TECHNOLOGIES, NEW MATERIALS, AERONAUTICS - BRITE/EURAM

The main aim of BRITE/EURAM (budget almost 500 million ECU) is to enhance the competitive position of the Community's materials and manufacturing industries in world markets through the support of R&D to provide the industrial and materials technology required for innovative products and process development. It is aimed at the more traditional industrial sectors such as automobiles, textiles, shipbuilding, chemicals, machine tools and aeronautics.

The programme covers the following fields: Advanced materials technologies, Design Methodology and Assurance of Products and Processes, Quality and Reliability, Application of Manufacturing technologies, Technologies for Manufacturing Processes: Surface techniques; shaping; assembly and joining technologies; chemical processes (including membrane technologies) and powder metallurgy and Aeronautics (see the article on page 7 and the section 'Call for proposals' on page 11).

Further information can be obtained from Mr W. van der Eijk (Production and Materials Technology) and Mr J. Wurm (Materials Research), Commission of the European Communities, DG XII, SDME, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.59.60 and (32) 2 235.52.90, Tlx: 21877 COMEUR B, Fax: (32) 2 235.06.56.

2. JOULE - NON-NUCLEAR ENERGIES AND THE RATIONAL USE OF ENERGY

The budget of JOULE will be 122 million ECU covering the following research fields:

- a. **Models for Energy and Environment:** Modelling of resources and energy supply and demand; modelling of energy-environment interactions;
- b. **Rational Use of Energy:** Energy conservation in buildings, combustion technology and industry;
- c. **Energy from fossil fuels:** Oil and natural gas, e.g. new techniques such as coal-water mixtures;
- d. **Renewable Energies:** Solar-derived sources, wind energy, photovoltaic devices, hydraulic energy, biomass and geothermal energy.

Further information on JOULE can be obtained from Mr M. Trousson, Commission of the European Communities, DG XII-E, Programme JOULE, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.39.78, Tlx: 21877 COMEUR B, Fax: (32) 2 235.01.45.

(see also section 'Call for proposals' on page 11)

3. THE USE OF LARGE INSTITUTIONS (ACCESS TO EUROPE'S LARGE SCIENTIFIC INSTALLATIONS AND EQUIPMENT)

The new programme will provide financial support to improve and upgrade existing large-scale installations. The Community contribution may be used to upgrade the equipment, make it more specialised, or to adapt existing equipment to allow a specific project to take place.

In return, the use of the facility must be opened up to all Member States. Community support will facilitate access to these experimental centres for research teams that have little chance of using them at the present time. These opportunities will therefore be particularly valuable to researchers from countries having few facilities and from small and medium-sized firms.

The programme will have a budget of 30 million ECU for the period 1988-1992. A call for tenders was published in Official Journal C 93 of 14 April 1989.

Further information can be obtained from Mr C. Danis, Commission of the European Communities, DG XII/H, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.07.20, Tlx: 21877 COMEUR B, Fax: (32) 2 235.06.56.

(see also section 'Call for proposals' on page 11)

4. RESEARCH INTO THE DECOMMISSIONING OF NUCLEAR PLANTS

The Council adopted a new five-year (1989-1993) research programme on the decommissioning of nuclear installations, including nuclear power plants and nuclear fuel reprocessing plants. It will cost approximately 60 million ECU over the five years, with a Community contribution of 31.5 million ECU.

The new programme will place greater emphasis on the testing of new decommissioning techniques in the field, including a number of selected pilot dismantling projects undertaken in various Member States, with complementary tests performed in other nuclear installations.

A call for proposals might be launched in June/July 1989.

Further information can be obtained from Mr K. Pflugrad, Commission of the European Communities, DG XII, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.84.25, Tlx: 21877 COMEUR B, Fax: (32) 2 236.20.06.

The full text on the above R&D programmes was published in Official Journal L 98 of 11 April 1989.

88 % OF THE FRAMEWORK PROGRAMME ASSIGNED TO SPECIFIC RTD ACTIVITIES

On 28 September 1987 the Council adopted the Framework Programme (FP) for Community activities in the field of Research and Technological Development (RTD) for the period 1987 to 1991. It represents the first application of the single European Act, which entered into force on 1 July 1987. The total amount for the FP has been fixed at 5.396 thousand million ECU. At the first Council meeting under the mandate of Vice-President Pandolfi on 14 March 1989, four further R&D programmes were approved (see page 4).

About 88 % of the total amount of the FP has thus been assigned to specific programmes. A common position has been reached for about 3 %, whereas R&D programme proposals under discussion amount to a total of about 7 %. Together, about 98 % of the FP volume has been earmarked for specific programmes.

Mr Pandolfi announced for the next Research Council on 6 June 1989 the preparation of:

- the final report on the state of science and technology in the community (see I&TT, 1/89, page 3)
- the evaluation report on the current framework programme.



CEC Vice-President
Mr Pandolfi

The table below shows the status of decisions taken up to 14 March 1989 concerning the Framework programme:

Decided		Proposed and common position*/stance		Proposed	
Fisheries Sector	30	Monitor	22 *	Rad. Waste	79.5
Medical Research	55	Eurotra	7 *	Transports	8
STD	80	Value	38 *	Prix S/T	4
Radiop. Rv.	10	Flair	25 *	Solde 2.3	17
Race	550	Bridge	100	Eurot. 91/2	10
Brite-rev.	60	Med. Pred.	15		
Esprit II	1600	Doses	4 *		118.6
Delta	20	Research in Agriculture	55		(2%)
Drive	60	Teleman	19		
Biot. Rev.	20	Mast	50 *		
Science	167	Environment	115		
CBR	59.2	Radioprotection	21.2		
Fusion	551	Rawmaterials	45.0		
JRC	700				
Aim	20		516.2		
Big Installations	30		(10%)		
Joule	122				
Brite/Euram	499.5				
Eclair	60				
Spes	6				
Decommissioning	31.5				
	4761.2				
	(88%)				

Further information on the status of implementation of the FP can be obtained from Mr M. André, Commission of the European Communities, DG XII, SDME 01/38, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 236.07.81, Tlx: 22045 COMEUR B, or Mr P. Kerr, Commission of the European Communities, DG XIII, J-70 01/10, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.54.80, Tlx: 22045 COMEUR B.

COMMISSION OF THE EUROPEAN COMMUNITIES

EUROPEAN COMMUNITY
RESEARCH PROGRAMMES



New Guide to Community R&D programmes published

INVENTORY OF SPECIFIC PROGRAMMES WITHIN THE FRAMEWORK PROGRAMME FOR COMMUNITY ACTIVITIES IN THE FIELD OF RESEARCH AND DEVELOPMENT

(status 16 January 1989)

Copies of the inventory as well as copies of the 'State of Science and Technology in Europe' (see I&TT, 1/89, page 3) can be obtained from Mrs A. Dissy, Commission of the European Communities, DG XII, SDME 1/34, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.64.19, Tlx: 21877 COMEUR B.

'THERMIE' PROGRAMME AIMED AT THE MASTERING OF ENERGY TECHNOLOGIES

The Commission has approved the proposal to the Council for a programme of European technologies for the mastering of energy, called THERMIE. It is aimed at the promotion of energy technologies in order to improve the security of supplies and energy efficiency, while contributing to environmental protection and increasing cooperation between Community industries. The programme should start in 1990, following the expiry, at the end of this year, of the energy demonstration and hydrocarbon technologies programmes.

Further information can be obtained from DG XVII/E/3, Technical Programme, Commission of the European Communities, 200, rue de la Loi, B-1049 Brussels, Tlx: 21877 COMEUR B, Fax: (32) 2 235.01.50.

PUBLICATIONS ON R&D IN THE FIELD OF ENERGY

COMMUNITY
PROGRAMME OF
SUPPORT FOR
TECHNOLOGICAL
DEVELOPMENT IN
THE HYDROCARBONS
SECTOR



Community Programme of Support for Technological Development in the Hydrocarbons Sector. This brochure gives details of the contents of our support programme, which will come to an end on 31 December 1989. The research programme has been governed by Regulation No. 3639/85 (O.J. L 350 of 27. 12. 1985).

Evaluation of the Energy Demonstration Programme. This programme is run in parallel with the hydrocarbons scheme by DG XVII. It is governed by Regulation 3640/85 (O.J. L 350 of 27. 12. 1985) and will also come to an end in December 1989. Likewise, the evaluation contains information on the major results and recommendations for the future.

These brochures can be obtained from the CEC, DG XVII/C-1, Oil Policy Division, Mr E. Millich, 200, rue de la Loi, B-1049 Brussels, Tlx: 21877 COMEUR B, Fax: (32) 2 235.01.50.

EVALUATION
of the
ENERGY DEMONSTRATION PROGRAMME

LIQUEFACTION AND GASIFICATION
OF SOLID FUELS
SUBSTITUTION OF HYDROCARBONS
BY SOLID FUELS

Commission of the European Communities
Directorate - General for Energy



NOVEMBER 1988

R&D PROGRAMME IN THE FIELDS OF RAW MATERIALS AND RECYCLING

This proposal aims to help enhance the international competitive position of the Community's industries involved with raw materials and recycling. It will include primary raw materials, the recycling of non-ferrous and strategic metals, renewable raw materials (forestry and wood products), and the recycling of waste. For further information see Official Journal C 52 of 1.3.1989 or contact Mr M. Donato, Commission of the European Communities, DG XII/C/5, SDME 02/4, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.39.55, Tlx: 21877 COMEUR B.

NOUVELLES
DE LA SCIENCE
ET DES
TECHNOLOGIES

POUR TRANSMETTRE L'INFORMATION RECHERCHES FINANCÉES PAR DES LABORATOIRES
EXTRAITES DE COMMUNIQUÉS DE PRESSE



EUROPEAN RESEARCH AND FRAMEWORK PROGRAMME

Revised version (state
January 1989).

Copies are available from
Mr M. André, Commis-
sion of the European
Communities, DG XII,
SDME 01/18, 200, rue de
la Loi, B-1049 Brussels,
Tel.: 2 236.07.81, Tlx:
22045 COMEUR B.

SPECIFIC AREAS RELATING TO AERONAUTICS UNDER BRITE/EURAM CALL FOR PROPOSALS UNDER WAY

This call invites proposals for precompetitive civil research in technological areas which are of primary relevance to aeronautics (in particular aeroplanes and helicopters). The call covers the following fields: aerodynamics, acoustics, airborne systems and equipment, propulsion systems. The final date for submission of proposals in this area of the BRITE/EURAM Programme is 9 June 1989 at 5.00 p.m. For more information see Official Journals C 33 and S 27 of 9 February 1989 and C 75 of 23 March 1989. The information package including the work programme on aeronautics under the BRITE/EURAM Programme can be obtained from: Commission of the European Communities, DG XII-H-Aerogroup (Mo-75, 7/11), 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.06.56, Tlx: 21877 COMEUR B.

COORDINATED AGRICULTURAL RESEARCH PROGRAMME ON COMPETITIVENESS OF AGRICULTURE AND MANAGEMENT OF AGRICULTURAL RESOURCES

PARTNERS IN PROGRESS

COORDINATED AGRICULTURAL RESEARCH
(1985-1990)

COMMISSION
of the
EUROPEAN COMMUNITIES



EUR 13323

The aim of this programme will be to help EC farmers to adapt to the new situation created by overproduction and restrictive prices and markets, to improve farming conditions in regions that are lagging behind, to encourage environmental protection and land conservation, to develop agricultural information services, and to improve the dissemination of research results.

It will be carried out by shared-cost contracts, high-priority and pilot projects and coordination activities.

The report 'Partners in progress' on the first coordinated agricultural research programme (left) and further information on the new proposal can be obtained from Mr Ph. Moulart, Commission of the European Communities, DG VI, Agriculture, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.24.18, Tlx: 21877 COMEUR B.

ECLAIR PROGRAMME — EUROPEAN COLLABORATIVE LINKAGE OF AGRICULTURE AND INDUSTRY THROUGH RESEARCH

The objective of the programme is to promote the useful application of recent developments in the life sciences and biotechnology in Europe. It will consist of the following sectors: production and evaluation trials of candidate species or organisms, industrial products and services and integrated approaches (see also I&TT 1/89, page 6, and Official Journal L 60 of 3 March 1988).

FLAIR: MULTIANNUAL RESEARCH AND DEVELOPMENT PROGRAMME IN FOOD SCIENCE AND TECHNOLOGY

The proposed programme will focus on the interface between consumer, industry and research, concentrating on the downstream end of food science and technology and coordinating research and industry efforts with the consumer's demands and requirements. It will comprise three sections: measurement and enhancement of food quality; food hygiene, safety and toxicology aspects; nutrition and wholesome aspects. The programme will be implemented through cost-shared and concerted actions. A call for proposals is expected to be launched in the near future. Further information on ECLAIR and FLAIR can be obtained from Mr F. Rexen, Commission of the European Communities, DG XII/F/3 - ECLAIR, SDME, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 236.31.63 / 236.31.64 / 236.09.73, Tlx: 21877 COMEUR B, Fax: (32) 2 236.20.07 / 236.01.45.

COMMISSION PROPOSES BRIDGE — BIOTECHNOLOGY RESEARCH FOR INNOVATION

The essential objective of the Biotechnology Action Programme (BAP) is to develop the Community's capacity to master and exploit the application of modern biology to agriculture and industry. The activities to be carried out under BRIDGE (formerly Biotechnology Action Programme) include not only research activities, but also:

- Monitoring and interpreting worldwide developments in biotechnology, with a view to identification and analysis of opportunities, issues and problems (scientific, technical, economic, social, ethical, etc.) related to the development of biotechnology in Europe;
- Initiatives to encourage start-ups and growth in biotechnology, with special emphasis on small and medium-sized enterprises;
- Concertation of Commission policies and programmes, and between Community and Member State activities, relating to biotechnology;
- Increasing public awareness and understanding of biotechnology.

A call for proposals is expected to be launched in September 1989. For further information see Official Journal C 70 of 20 March 1989 or contact Mr D. de Nettancourt, Commission of the European Communities, DG XII/F/2, SDME 03/67, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.40.44, Tlx: 21877 COMEUR B.

RESEARCH PROGRAMME IN THE FISHERIES SECTOR

The main objective of the programme is to provide a scientific basis for the implementation of the Community fisheries policy. The following research areas are concerned: fisheries management, fishing methods, aquaculture and upgrading of fishery products. A call for proposals is expected to be launched in the second half of 1989. Further information can be obtained from Mr J.P. Repussard, Commission of the European Communities, DG XIV/C/2, L-120 5/219, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.93.02, Tlx: 21877 COMEUR B.

MARINE SCIENCE AND TECHNOLOGY (MAST)

— Call for proposals under way —

The Council adopted a common position on MAST, the first Community research programme specifically devoted to the marine environment. This programme will have a budget of 50 million ECU for the period 1989-1992 and will cover four main sectors: a. Basic and applied marine science, b. Coastal zone, science and engineering, c. Marine technology and d. Supporting initiatives.

The Commission has launched a call inviting proposals for these four fields (see section 'Call for proposals' on page 11). Further details of the programme and how to apply are given in the [MAST information package](#). It also contains the standard application form and notes for applicants. This package can be obtained on request from the following address: Commission of the European Communities, DG XII-E, 200, rue de la Loi, B-1049 Brussels, Tlx: 21877 COMEUR B, Fax: (32) 2 236.30.24.

FORECASTING, EVALUATION AND STRATEGIC ANALYSIS IN THE FIELD OF R&D: MONITOR

The Research Council has adopted a common position on the MONITOR programme, the purpose of which is to help in identifying new directions and priorities for Community research and technological development policy and to help show more clearly the relationships between it and the other common policies.

It comprises three activities: strategic and impact analysis in the field of science and technology (SAST), FAST forecasting and research and studies to improve the methodologies and effectiveness of evaluation of R&D activities (SPEAR). For each of these three subprogrammes the Commission will establish an annual calendar of priority activities. The implementation will involve research centres specializing in strategic and impact analysis etc., the setting up of '12+1' networks, one linked to FAST the other to SPEAR, and secondment of visiting scientists from national institutions.

A call for expressions of interest is expected to be launched in April/May 1989. Further information can be obtained from Mr H. Allgeier, Commission of the European Communities, DG XII, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.40.55, Tlx: 21877 COMEUR B.

DELTA TO PROMOTE ADVANCED TECHNOLOGIES FOR EDUCATION AND TRAINING

The Commission is about to finalize contract negotiations for 30 research and development projects to be launched under the Community's DELTA Programme (Development of European Learning through Technological Advances). These projects have been selected from a total of some 175 project proposals, submitted to the Commission in response to an open call for proposals, which were evaluated in November and December 1988. DELTA is one of three EC programmes studying the application of advanced information, communication and broadcasting technologies in key economic and social areas.

Further information can be obtained from Mr M. Rogers, Commission of the European Communities, DG XIII/F, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.02.89, Tlx: 21877 COMEUR B.

COST PROJECT TO ASSESS EFFECTS OF CHANNEL TUNNEL ON TRAFFIC FLOW STRUCTURE

The European states concerned by the Channel tunnel intend to cooperate in a COST action aiming to promote research to evaluate the effects of the tunnel on traffic flows. This project is to produce a methodology for the quantitative and qualitative evaluation of the effects on traffic flows of large-scale infrastructure projects in general (tunnels, high-speed rail links, etc.). The aim is to make detailed, harmonised and reliable statistics available to all concerned, public and private.

Further information can be obtained from Mr F. Fabre, Commission of the European Communities, DG VII/B/3, Belliard 34 - 2/11, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.39.99, Tlx: 21877 COMEUR B.

SPES — A PLAN TO STIMULATE COOPERATION IN ECONOMIC SCIENCES

The Commission has just adopted the SPES plan, which aims to encourage cooperation between European economists on research themes of Community interest and will come into effect immediately. The creation of cooperation networks linking research institutes should make it possible to reap the benefit of the huge potential for economics research which exists in Europe. Apart from setting up networks between European research institutes the plan has the aim of increasing the mobility of professors and researchers, as well as doctoral students, and thus encouraging them to work in other European institutes on a temporary basis. Main topics of research will be: microeconomic analysis issues in the field of the Community's internal market programme, European integration economics, the determinants of economic growth, 'systemic' issues in the monetary areas and macroeconomic and fiscal policy coordination, problems of employment, environment, advanced technology and innovation, social policy issues.

Further information and application forms can be obtained from Mr R. Thomas, Commission of the European Communities, DG XII/H/1 - SPES, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.47.07 / 235.64.72, Tlx: 22045 COMEUR B, Fax: (32) 2 235.06.56 (see also section 'Call for proposals' on page 11).

TELECOMMUNICATIONS: STRATEGIC PLAN FOR ADVANCED COMMUNICATIONS IN EUROPE IN THE 1990's - RACE

The Commission has approved a series of recommendations which constitute a first step towards developing a strategic plan containing general goals and priorities for the RACE Programme (Research on Advanced Communications Technologies in Europe) for the coming years. The purpose of RACE - in which practically all the telecommunications administrations are involved, along with the manufacturers of telematics equipment from all the countries of the European Community and EFTA - is to quickly and effectively provide Europe with advanced telecommunications services.

The RACE workplan, brochure and information related to calls for proposals is available on request from: Mr J. Rosenbaum, Commission of the European Communities, DG XII-F, RACE Central Office, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.92.35, Tlx: 21877 COMEUR B, Fax: (32) 2 235.01.48.



Telecommunications in Europe

Telecommunications has recently become the infrastructure of a wide variety of services, and thus acquired a new role in Europe's future development. It's evolving into one of the basic foundations of the future communications-based society.

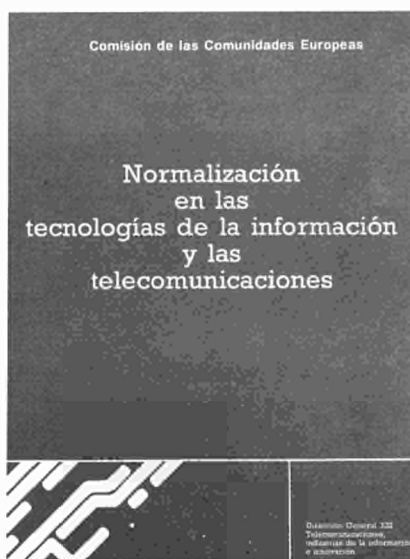
But beyond the details of dramatic changes in technology and of the many new opportunities, this book endeavours to bring theme of Community telecommunications policy: ensuring freedom of choice for the user in Europe's wider 1992 market.

This study will be available shortly in all the community languages.

(259 pp., 17.6 x 25.0 cm); ISBN 92-825-8209-4; cat.: CB-PP-88-009-EN-C; Price: 10.50 ECU.

Office for Official Publications of the European Communities, L-2985 Luxembourg.

STANDARDIZATION IN INFORMATION TECHNOLOGY AND TELECOMMUNICATIONS



Standardization has become a key issue in the development of information technology and telecommunications world-wide. This information pack explains how the Community is responding to the challenge.

Information Technology (IT) and Telecommunications have a three-fold economic and social importance:

- the information industries form one of the largest economic sectors;
- most other sectors are on the way to becoming critically dependent on the use of IT for competitiveness; some are already so;
- the single European market will not become a reality if technical barriers obstruct the flow of information between trading partners who increasingly use electronic means of processing and communicating information.

This information package sets out the problems and describes Community policy and action in tackling them.

It can be received in all Community languages from the press and information offices of the CEC in the Member States or from Mr F. Jorgensen, Commission of the European Communities, DG XIII/E/4, J-37 4/24, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.05.81, Tlx: 21877 COMEUR B.



ECONOMIC AND SOCIAL COMMITTEE IN FAVOUR OF TEDIS

The Economic and Social Committee adopted a favourable opinion on the proposal of the Commission to launch the TEDIS Programme which aims to ensure compatibility between commercial electronic data interchange systems.

Further information on TEDIS can be obtained from Mr E. Peeters, Commission of the European Communities, DG XIII/D/4, J-37 02/15, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.73.30, Tlx: 21877 COMEUR B, Fax: (32) 2 236.30.24.



GUIDE ON CTS NOW AVAILABLE:

CONFORMANCE TESTING SERVICES

The CTS Programme was launched by the Commission of the European Communities (DG XIII - Telecommunications, Information Industries and Innovation) to promote the provision of conformance testing services which correspond to the practical challenge the world now faces if open communication is to become a daily reality.

A guide on CTS is now available from all press and information offices of the Commission (and from the Mr F. Jorgensen, Commission of the European Communities, DG XIII/E/4, J-37 4/24, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.05.81, Tlx: 21877 COMEUR B).

It contains information on conformance testing services in the following fields: Languages, SQA, Graphics, LAN, Telecoms, OSI single layers, OSI applications, Buses, Operating systems and Bankcards.

DOSES AND EUROTRA: COMMON POSITIONS ADOPTED BY THE COUNCIL

The Council has adopted common positions on the following proposals:

1. Proposal for a Council Decision instituting a specific programme for the research and development of statistical expert systems (**DOSES**) — see also section 'Call for proposals' on page 11 ;
2. Proposal for a Council Decision on a specific programme for the completion of a machine translation system of advanced design (**EUROTRA**).

The texts of these common positions as well as on the programmes **VALUE**, **MAST**, **MONITOR** and **FLAIR** can be obtained from Office 12/53, General Secretariat of the Council of the European Communities, 170, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 234.76.21 referring to Official Journal C 93 of 14.4.1989.

EUROPEAN COMMUNITY CONTEST FOR YOUNG SCIENTISTS

The European Commission has decided to sponsor a contest in the EC for young scientists which will be held in Brussels at the end of October 1989. Top finalists from EC and other European countries will participate. Students in secondary schools or higher between 15 and 21 years of age will be eligible, alone or in teams. The prizes will be scholarships for further study: six 5 000 ECU scholarships and six worth 3 000 ECU. The work will be judged by scientists of international renown.

Further information can be obtained from Mr A. Pozzo, Commission of the European Communities, DG XII/H, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.40.67, Tlx: 21877 COMEUR B, Fax: (32) 2 235.06.56.

The ESPRIT workplan, information packages relevant to the calls for proposals, synopses and other information can be obtained from the Commission's information offices in each Member State or from the ESPRIT Information Desk, Mr I. T. Collisson, Commission of the European Communities, DG XII, A-25 8/7, 200, rue de la Loi, L-1049 Brussels, Tel.: (32) 2 23.57666, Tlx: 21877 COMEUR B, Fax: (32) 2 23.50655.

COMMUNITY RESEARCH AND DEVELOPMENT PROGRAMMES

DEADLINES FOR THE NEXT CALLS FOR PROPOSALS

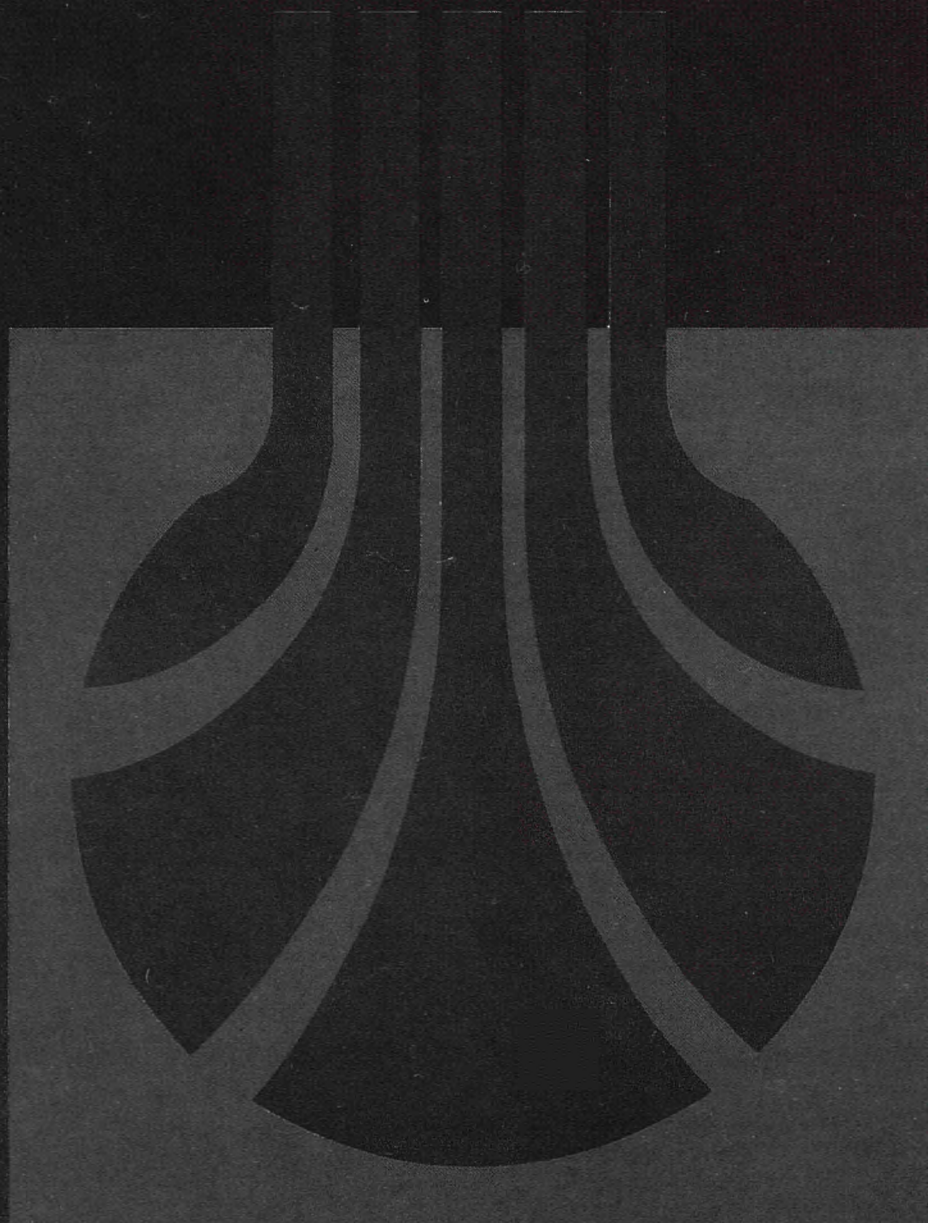
PROGRAMME	DIRECTORATE-GENERAL RESPONSIBLE	DEADLINE
JOULE (non-nuclear energies and rational use of energy — see article on JOULE on page 4)	XII	30.04.1989
CTS (conformance testing services - see article on page 10 or Official Journal C 34 of 10.2.1989)	XIII	10.05.1989
BRITE II (industrial technologies), including EURAM II (advanced materials); see article on BRITE/EURAM on page 4	XII	12.05.1989
BRITE/EURAM (aeronautics); see article on page 6		09.06.1989
Technology research - coal (ECSC)	XVII	31.08.1989
Steel research (ECSC)	XII	31.08.1989
Pilot and demonstration projects in the iron and steel industry (ECSC)	XII	01.10.1989
Plan to facilitate access to large-scale scientific facilities (see article on page 4 and Official Journal C 93 of 14.4.1989)	XII	01.10.1989
MAST (Marine Science and Technology Programme - see article on page 8)	XII	30.06.1989
Plan to stimulate the international cooperation and interchange needed by European researchers: SCIENCE (for further information see Official Journal C 335 of 30.12.1988)	XII	no deadline
Reactor Safety	Joint Research Centre (Ispra)	15.05.1989
STD (Science & Technology for development)	XII	30.06.1989
Dissemination and utilisation of the results of Community RTD; see article on page 13	XIII	20.05.1989
SPES (see article on page 8 and Official Journal C 86 of 7.4.1989)		no deadline
DOSES (Call for expressions of interest; see article on page 10 and Official Journal C 99 of 20. 4. 1989)	Statistical Office	30.06.1989

Application forms can be obtained from the Directorate-General concerned (Commission of the European Communities, DG, 200, rue de la Loi, B-1049 Brussels). The address of the Joint Research Centre is: Ispra Site, I-21020 Ispra (VA).

FORTHCOMING CALLS

PROGRAMME	CALL EXPECTED
SPRINT - Innovation and Technology Transfer (see also article on page 2)	May 1989
DOSES - R&D of statistical experts	May 1989
FLAIR (see also article on page 7)	May / June 1989
DRIVE - Information technology and telecommunications applied to road transport	June 1989
STEP/EPOCH - R&D programmes in the field of environmental protection (see I&TT 1/89, page 3)	June 1989
Decommissioning of Nuclear Plants (see also article on page 4)	June / July 1989
BRIDGE - Biotechnology Research for Innovation (see also article on page 7)	September 1989
ESPRIT II - Research in information technology	November 1989
IMPACT - Information Industries	November 1989
FAR - Fisheries & Aquaculture Research (see also article on page 7)	2nd half of 1989

The information above is a sort of early warning system and reflects our knowledge at the time 'I&TT' goes to print. The dates indicated above may change and are not definitive. 'I&TT' declines all responsibility for any changes.



El gran foro del acero

The steel forum

BILBAO (SPAIN), 25-30 SEPTIEMBRE/SEPTEMBER

25.-30.9.1989, SIDEROMETALURGICA, International Siderometallurgical Trade Fair, Organiser: Feria Internacional de Muestras de Bilbao, Plaza Pedro Ma. de Basterrechea s/n Apartado 468, E-48080 BILBAO, Tel.: (34) 94 44.15.400, Tlx 32617, Fax: (34) 94 44.24.222. [Information on the participation of the CEC at Siderometalúrgica can be obtained from](#) Mr F. Engels, Commission of the European Communities, DG XIII/C/2, B4/106, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-2952, Tlx: 2423/3446 COMEUR LU, Fax: (352) 4301-4129.

JOINT VENTURE OPPORTUNITY FOR EUROPEAN FIRMS FOR LICENSING PRODUCTION AND MARKETING OF A NEW ALL SOLID-STATE BATTERY

The Commission (DG XIII/C/2) is currently taking new measures to improve the level of exploitation of Community RTD activities. One such is assisting contractors in finding the appropriate industrial and financial partners who can fully exploit research results in the interests of the Community. In this context and in cooperation with the regional authorities of the Province of Hainaut (Belgium), an information meeting was organized at the SITE DU GRAND-HORNU to present a new all solid-state battery developed under the energy conservation research programme implemented by DG XII-E.

The meeting was chaired by Mr Claude DURIEUX, Député permanent du Hainaut, Mr Vicente PARAJÓN COLLADA, Deputy Director-General of DG XIII, Mr E. DEWORME, the Belgian State Secretary for Energy and Mr DORSIMONT, representing Mr Robert URBAIN, Belgian Minister of Foreign Trade.

Dr Jørgen LUNDSGAARD of H&L Engineering A/S presented this new invention. His company, involved basically in RTD work, **has decided to license production and marketing** to an industrial company or consortium with sufficient technical and marketing expertise, and financial resources, to achieve maximum market penetration for this product.

This new battery has several advantages:

- its cell configuration, a multilayer cell of 100 µm thick, enables TOTAL DESIGN FREEDOM. Any size and shape can be obtained just by cutting foils.
- HIGH ENERGY DENSITY
- HIGH POWER DENSITY due to high electrode surface area
- SAFETY : no negative environmental impact, and it is non-explosive
- CONTINUOUS MANUFACTURING that allows low-cost production. New coating and lamination techniques have produced the following advantages: NO LEAKAGE, HIGH VOLTAGE, LONG SHELF LIFE and WIDE OPERATING TEMPERATURE RANGE: from -40° to 150°C.

In relation to competitive technologies, this new battery has up to **five times the energy density of an NiCd battery**, the same power density, and a much longer shelf life, apart from other advantages such as no negative environmental effects, no leakage, etc. The market looks most promising. Applications such as portable radios, tape recorders, electronic toys, portable computers, portable tools and many others are waiting for new, low-cost, primary or rechargeable, high-power safe batteries such as the H&L invention. The invention, as well as its production technologies, is fully protected by a large number of worldwide patents.

DG XIII/C/2 will continue promoting the exploitation of Community RTD results under the VALUE Programme, a specific programme for the dissemination and utilization of results from scientific and technological research (see page 2). The Commission is also continuing to support research on advanced solid-state batteries under the JOULE Programme (see article on page 4).

European firms interested in exploiting this battery can obtain further information from: Dr Jørgen Lundsgaard, H&L Engineering A/S, Vestergade 24, DK-5700 Svenborg, Tel.: (45) 9 22.00.99 or Mr J. Hernandez-Ros, Commission of the European Communities, DG XIII/C/2, B4/121, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-4533, Tlx: 3423 / 3446 COMEUR LU, Fax: (352) 4301-4129.



The photo shows Mr Parajón Collada, Deputy Director-General of DG XIII giving his presentation.

INVITATION TO TENDER: WORK RELATING TO THE DISSEMINATION AND UTILIZATION OF THE RESULTS OF COMMUNITY RTD

The present invitation to tender applies in the first instance to those areas which are not covered by the framework programme for Community research and technological development, i.e. essentially research in the coal and steel industries and demonstration projects (e.g. energy and the environment), and in the second instance to other exploitation activities, pending adoption of the 'VALUE' Programme (see page 2). Work will involve one or more of the following activities:

1. Study of markets and scientific and technological developments
2. Identification and characterization of the results of RTD
3. Evaluation of the results of Community R&D
4. Evaluation and determination of activities aimed at facilitating the transmission and exploitation of knowledge and scientific and technical know-how resulting from Community R&D
5. Economic evaluation
6. Drafting and follow-up of plans for exploiting research (licensing agreements or technology transfer contracts)
7. Assistance in organizing events to promote Community R&D
8. Assistance in drawing up dossiers to obtain funding for the exploitation of Community R&D
9. General studies on subjects relating to the dissemination and exploitation of R&D.

The nature of the work will be laid down by the Commission and may relate to one or more of the activities described above, requiring a variety of skills and different levels of expertise. Various profiles have been laid down, the **description of which** (plus all other details necessary for an application) is **published** in Official Journal C 92 of 13.4.1989 (see also OJ, S 58 of 25.5.1986). The deadline for receipt of tenders is 20.5.1989. Awarding authority: Commission of the European Communities, DG XIII - administrative unit 'Promotion of exploitation of Community Research and Technological Development', B4/108, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-2954 / 3453, Tlx: 2423 / 3446 COMEUR LU, Fax: (352) 4301-4129.

SIMAC — MEETING POINT FOR THE CONSTRUCTION INDUSTRY**— LISBON 10-14 MAY 1989 —**

SIMAC is the most comprehensive fair and exhibition held in Portugal for the civil engineering and public works industries. Addressed particularly to professionals in the field, but also open to the public, SIMAC can be considered the high point in publicizing business activities and in promoting domestic and foreign products consumed or used in this sector.

DATE

10/14 May 1989

OPENING HOURS

10/12 May

3 pm/ 7 pm — Professionals

7 pm/11 pm — Public

Further information can be obtained from: ASSACIAÇÃO INDUSTRIAL PORTUGUESA, Praça das Indústrias, P-1399 Lisbon Codex, Tel.: (351) 1 64.41.61/64.53.41, Tlx: 12282 FIPOPT P, Fax: (351) 1 63.90.48.

DG XIII/C/2 will be exhibiting at SIMAC a series of innovations stemming from Community R&D:

1. Revive-System - a new system for the recycling of mixed scrap plastics
2. Acoustic and thermal insulating panelling made of waste paper
3. Non-flammable composite materials made of paper-manufacturing residue or recycled paper/plastic waste
4. CEFICOSS - Computer Engineering of the Fire resistance of Composite and Steel Structures
5. Access control
6. Spontaneous Downward Heat Transport
7. Low-air-pollution incineration system for wastes
8. ARCHISOL

Information on the participation of the CEC at SIMAC can be obtained from Mr J. Hernandez-Ros, Commission of the European Communities, DG XIII/C/2, B4/121, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-4533, Tlx: 3423, 3446 COM-EUR LU, Fax: (352) 4301-4129.

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Please return to: Mr M. Leipold, Commission of the European Communities, DG XIII/C/2, B4/086, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-2936, Tlx: 3423, 3446 COMEUR LU, Fax: (352) 4301-4129.



IMPROVING THE UTILISATION OF PUBLICLY FUNDED RESEARCH

First comprehensive report on the state of technology transfer in the Community now available

— Studies on the situation in the Member States just published —

There has been growing concern in recent years that the results of publicly funded research and development should be fully exploited and that society should derive maximum benefit from them.

First of all, there has been a lack of information on the actual measures adopted throughout the Community and on their effectiveness. In order to fill this gap and to identify measures which might have general utility, the Commission initiated a series of studies to be made under the SPRINT Programme by groups of experts from university or the economy (see list of authors below). The objectives of these studies were to examine the procedures adopted in each Member State to promote the effective utilisation of publicly funded R&D, and to suggest measures which, in the opinion of the consultants, would be useful at both national and Community level. These studies have now been published:

Title: Utilisation of the results of public research and development (plus the name of the Member State concerned)

Edited by: H. Corsten/K.-O. Junginger-Dittel/B.B. Goodman/A.v. Witzleben - 1989, Published by: CEC, DG XIII-C, Kirchberg, Luxembourg, Price (excluding VAT) in Luxembourg: ECU 5 to 15

IMPROVING THE UTILISATION OF PUBLIC AND PUBLICLY FUNDED R&D RESULTS

List of studies and authors:

Summary report
EUR No. 11528 EN
ISBN 92-825-8269-8

John T. McMullan
Centre for Energy Research
University of Ulster
UK-Coleraine BT52 1SA

Ireland
EUR No. 11534 EN
ISBN 92-825-9050-X

B.A. O'Sullivan and D.J. Cogan
Science Policy Research Centre
Department of Business Administration
University College Dublin

Belgium
EUR No. 11529 FR
ISBN 92-825-9045-3

Michel Allé
Programmation de la Politique Scientifique
8, rue de la Science
B-1040 Bruxelles

Italy
EUR No. 11535 EN
ISBN 92-825-9062-3

Guiseppe Bellei, Domenico Corradetti and Renato Facci
FORMIT
Fondazione per la Ricerca sulla Migrazione e sulla Integrazione delle Tecnologie
Via Giovanni Gemelli Careri 11
I-00147 Roma

Denmark
EUR No. 11530 EN
ISBN 92-825-9046-1

Leif Christensen
DTO - Danish Technical Information Service
Rygaards All 131 A
DK-2900 Copenhagen, Hellerup

Luxembourg
EUR No. 11536 FR
ISBN 92-825-9051-8

M. Oestreicher
LUXINNOVATION
7, rue Alcide de Gasperi,
B.P. 1304, L-1013 Luxembourg

France
EUR No. 11531 FR
ISBN 92-825-9047-X

Thomas Durand, Thierry Gonard and Roland Schell
ANVAR
43, rue de Caumartin
F-74536 PARIS Cédex 09

Netherlands
EUR No. 11537 EN
ISBN 92-825-9052-6

F.A. de Jonge
Stichting LICENTEC
Bernadottelaan 15
NL-3503 RH Utrecht

Germany
EUR No. 11532 DE
ISBN 92-825-9048-8

Gerhard Bräunling
Fraunhofer-Institut für Systemtechnik und Innovationsforschung
Breslauer Strasse 48
D-7800 Karlsruhe 1 and
Michael Maas Universität -
GHS Duisburg

Spain and Portugal
EUR No. 11538 EN
ISBN 92-825-9053-4

Prof. Pedro Nueno
IESE, Universidad de Navarra
Avenida Pearson 21
E-08034 Barcelona

Greece
EUR No. 11533 EN
ISBN 92-825-9049-6

D. Deniozos, T. Giannitsis and H. Tshipouri
University of Athens
Omirou 19, GR-10672 Athens

United Kingdom
EUR No. 11539 EN
ISBN 92-825-9054-2

R.E. Quince
Segal Quince Wicksteed
Economic and Management Consultants
Hall Keeper's House
42, Castle Street
UK-Cambridge CB3 0AJ

Utilization
of the results of public
research and development
in the Netherlands

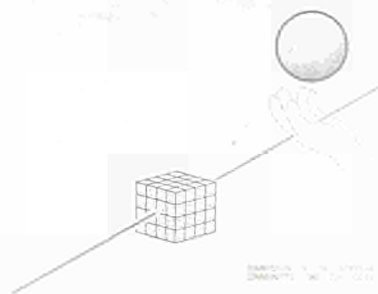
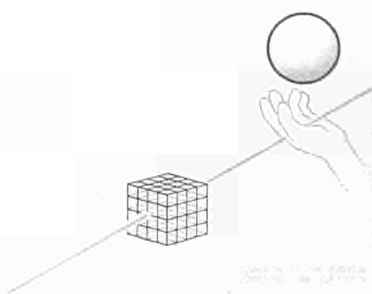
COLLECTION
INNOVATION
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TRANSFER

Nutzung
der Ergebnisse aus öffentlicher
Forschung und Entwicklung
in der
Bundesrepublik Deutschland

SAMMLUNG
INNOVATION
UND
TECHNOLOGIE
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Utilization
of the results of public
research and development
in Spain and Portugal

COLLECTION
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European Conference on Management of New
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Bitnet: B 180 Meulenbroek @ HTI KUB 5 BITN

Tilburg University The Netherlands
Monday 19th and Tuesday 20th June, 1989

COMMISSION EXPLORES THE SCOPE FOR PROMOTING AWARENESS OF INDUSTRIAL PROPERTY RIGHTS

At its last meeting in February 1989 the CIT Sub-group on 'Innovation and Patents' gave special attention to how to improve the awareness of inventors and researchers of the important role property rights play in the innovation process. To this end five speakers had been invited.

Prof. Reboul from the CEIPI, Strasbourg, gave an outline of the activities of this institute. It offers training on licensing, property rights and technology transfer both for French students (national section), European Patent Agents and people from commerce and industry, members of the legal profession etc. (international section). Mr Gering (University of Karlsruhe) described the patent and licence advisory office (PLAO), which is unique in Germany, being at a University and funded as a pilot project by the state of Baden-Württemberg. The PLAO cooperates with the patent management group for German research of the Fraunhofer Gesellschaft in Munich. Mr Gering said public relations measures for industrial property rights within the university are necessary, but not sufficient in themselves, since patent awareness must be complemented by the expert assistance of the patent advisory unit at the university. The 'patent-conscious' researcher should have a 'short cut' to obtaining all the relevant information he needs (whether to file a patent or not, and if so, how to file it, possibilities of financial support, etc.). Mr Kloss, senior lecturer at the Centre for European Studies (University of Manchester), presented his proposal for training staff in European SMEs in innovation management.

The expert group also discussed the results of an **inventory** compiled by Prof. Giannitsis (University of Athens) **on measures** adopted in the Member States **to promote innovation by the patent system**. The study will be published by the end of 1989.

Another item was the preparation of **PATINNOVA '90** (see the announcement on page 3). Dr Täger from the IFO Institute, Munich, which is specialised in research on patent and innovation matters, suggested some ideas on how to organise this conference. A draft programme has meanwhile been drawn up, and it is expected that a finalized version will be available by the end of July.

Further information can be obtained from: Prof. Y. Reboul, CEIPI, Université Robert Schuman, Place d'Athènes, F-67084 Strasbourg Cédex, Tel.: (33) 88.61.56.04, Dr U. Täger, IFO-Institut, Postfach 86 04 60, Poschingerstr. 5, D-8000 München, Tel.: (49) 89 92.24-345, Prof. T. Giannitsis, Department of Political Sciences, University of Athens, Omirou 19, GR-10572 Athens, Tel.: (30) 1 801.37.25, Mr G. Kloss, Centre for European Studies, Dover Street, UK-Manchester M13 9PL, Tel.: (44) 61 275.47.40, Mr T. Gering, Beratungsstelle für Patentfragen, Universität Karlsruhe, Kaiserstraße 12, D-7500 Karlsruhe 1 or Mr H. Bank, Commission of the European Communities, DG XIII/C/1, B4/071, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-2939/-3711, Tlx: 2423 / 3446 COMEUR LU, Fax: (352) 4301-4129.

FIB
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DE BARCELONA

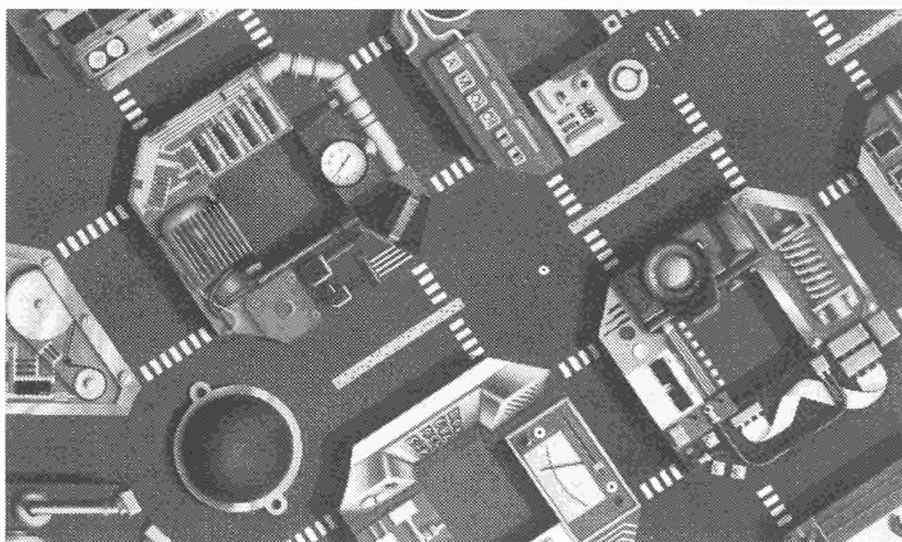
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Mr PARAJON COLLADA, Deputy Director-General of DG XIII, will present the SPRINT Programme on 7 June 1989, 12.30 p.m.

PATENT APPLICATIONS RECENTLY PUBLISHED

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

1. "A BUOY SERVING AS BI-DIRECTIONAL RELAY BETWEEN A SUBMARINE CAPSULE TRANSMITTING AND RECEIVING ULTRASOUND SIGNALS AND A LAND BASE"

Inventors: C.N. MURRAY, M.M.P. WEYDERT

Ref.: EUR Pat 2217

Data on oceanographic phenomena in the sea bed are usually gathered by measuring capsules placed in the sediment and then transmitted, by cable or ultrasound, to research ships. These, however, can only stay in one place for a limited period of time and carry onboard equipment which only permits a preliminary evaluation of the data acquired.

The buoy invented (3) takes the place of the research ships and offers a more sophisticated method of evaluation. It stays operative for years without maintenance. It links the submarine source of signals (capsule - 1) with a land-based evaluation centre (7) to which it transmits the data in real time at distances of more than 5000 km.

The transmitter/receiver of the measuring capsule (1) communicates with the ultrasound transmitter (4) and the ultrasound hydrophone (5) of the buoy. From there, the measurement data are transmitted, in the microwave range, through an omnidirectional antenna (18) to a satellite (6), and directly through a bi-directional antenna (19), in the short wave range, to the land base (7). A metal tube (8) contains in its upper part the instrumentation chamber (9) and a weight of 1500 kg in its bottom fixed in a float. Above the water level, a pylon (12) supports warning panels (13), solar panels (14), radar reflectors (15), a light source (16), an antenna for passive satellite navigation (17), and the described omnidirectional and bidirectional antennae.

The instrumentation is arranged around a computer which supervises the data flow of the transmission circuits, the sensors measuring meteorological and geochemical water values, the indicator of the buoy's location, the memory storing the signals and their digital equivalents, and a generator of control signals going from the ultrasound transmitter to the capsule, as well as means for amplifying and encoding signals flowing from the hydrophone to the computer, automatically forwarding them to the transmission circuit which feeds the antennae.

FIG. 1

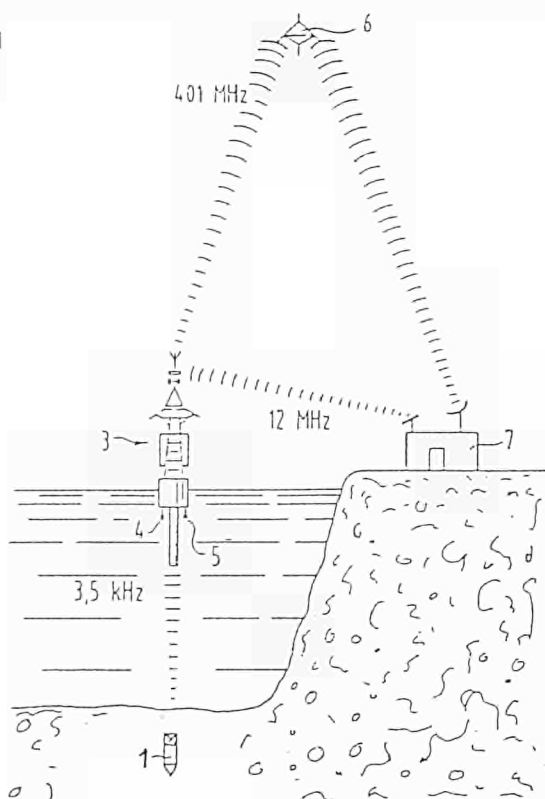
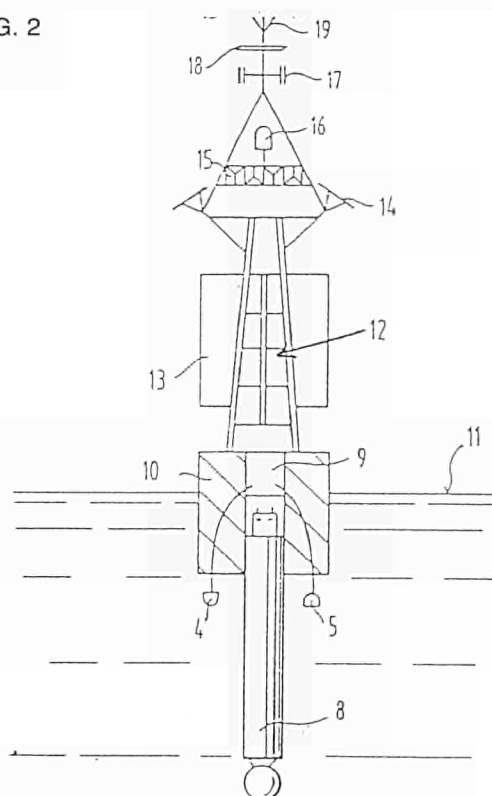


FIG. 2



2. PROCESS AND EQUIPMENT FOR THE CONTROLLED DISPOSAL OF AN AEROSOL CLOUD

Inventor: J. MAGILL

Ref.: EUR Pat 2221

In the event of a major chemical or nuclear accident (e.g. Chernobyl), the atmospheric propagation of the hazardous material released can now be prevented through the rapid removal and disposal of the aerosol cloud formed.

If, for example, radioactive substances escape through a crack (3) in the roof of a nuclear reactor (2), high-intensity sound waves transmitted from sources (5, 7, 9, 12) arranged in a matrix structure (5, 6, 7, 11) will be directed towards the aerosol cloud (4) causing its particles to collide and to coagulate. Then, the frequency of sound will be increased up to a level where the

coagulated particles move towards the source of sound transmission (12). There they hit a reception wall (14) permeable to sound, and are then conveyed by a mobile wiper (15) into a collecting groove (16), whence they are discharged or sucked off by a collecting container before they can fall to the ground.

The sound transmitters (such as piezoelectric transducers, magnetostrictive converters, whistles, combustion engines, sirens) may be arranged on a ground station (5), mounted on an aircraft (10) or on a remotely controlled airship (8), which can be flown directly into the cloud. In the latter case, a reflection wall (13) will be fixed opposite the sound transmission matrix so that a field of stationary sound waves can be maintained in the space between both walls, thus allowing 'cleaning' of the interspace aerosol volume within seconds while the airship is slowly moving with the wind inside the cloud, thus treating its various parts.

The invention can be used for removing all kinds of undesired aerosol clouds (even fog banks in airfield areas).

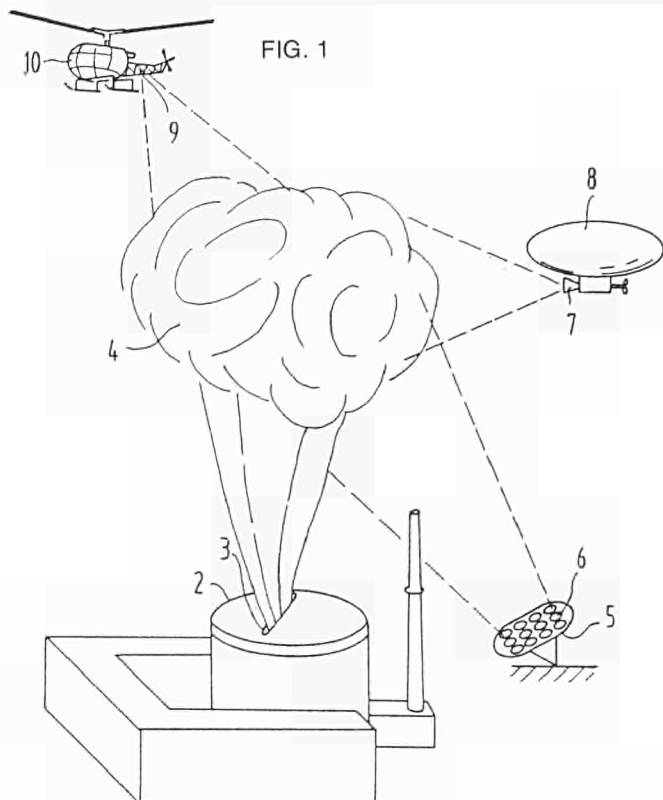


FIG. 1

FIG. 2

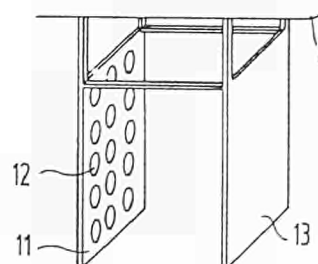
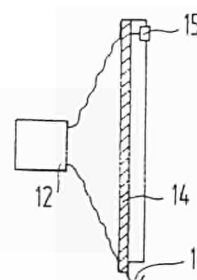


FIG. 3



Further information can be obtained from Ms L. Gerlach, Commission of the European Communities, DG XIII/C/1, B4/068, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-2922, Tlx: 2423 / 3446 COMEUR LU, Fax: (352) 4301-4129.

SEMINAR

CONTRIBUTION OF REMOTE SENSING TO THE STUDY OF DESERTIFICATION APPLICATION TO THE MEDITERRANEAN BASIN

THE PRESIDENCY OF THE COUNCIL OF THE EUROPEAN COMMUNITIES
THE SPANISH MINISTRY OF EDUCATION AND SCIENCE

with the collaboration of
Presidency of the Generalitat Valenciana

THE JOINT RESEARCH CENTRE OF THE COMMISSION OF THE EUROPEAN COMMUNITIES

In the Mediterranean basin, the degradation of ecosystems due to the combined action of man and climate appears more and more to be a phenomenon of great concern to be observed, studied and brought under control.

The symptoms of desertification appear in soils, water systems, vegetation and landcover. Although the causes are still not fully determined, it seems that man can curb the process at least partially, and thus limit its consequences. However, he needs a better understanding of the process and the ability to follow its evolution at close hand.

The purpose of the seminar is to analyse the desertification problem and to evaluate the potential contribution of present and future remote sensing methods to its solution. The seminar will gather together experts of international renown and encourage the exchange of information on the various research activities on this matter.

Above all, the objective of the seminar is to highlight those points most likely to improve comprehension of the desertification process and to define research priorities.

VALENCIA
29 and 30 MAY 1989

Further information can be obtained from Mme GARCIA DE LA RASILLA, Direction Générale, Centre Commun de Recherche, 200, rue de la Loi, B-1040 BRUXELLES, Tel.: 235 86 35

**International conference
'Pyrolysis and gasification'
Luxembourg, 23.-25. May 1989**

The Commission of the European Communities is organizing an international conference on the pyrolysis and gasification of waste materials (including plastics, rubber and wood wastes, various forms of biomass and other low-grade solid fuels) as a potential resource for:

- (i) the production of storable fuels, chemical intermediates, synthesis gas, monomers, or activated carbon;
- (ii) the fuelling of spark-ignited engines, gas turbines or retrofitted boilers.

Weitere Auskünfte erteilt:

For further information, please contact:

Pour de plus amples informations, s'adresser à:

Per ulteriori informazioni, rivolgersi a:

Commission of the European
Communities — DG XVII/E1
Att. Mr G.L. Ferrero
200, rue de la Loi (Terv 06/8)
B-1049 BRUSSELS
Tel. (32/2) 235 79 72
Telex: COMEU B 21877

Announcement
and Call for Papers



**9th European
Photovoltaic
Solar Energy
Conference
and Exhibition**

Albert-Ludwig University
Freiburg
Fed Rep of Germany
25-29 September 1989

Sponsored by the
Commission of the European Communities

**9TH EUROPEAN PHOTOVOLTAIC SOLAR ENERGY
CONFERENCE AND EXHIBITION**

ALBERT-LUDWIG UNIVERSITY

FREIBURG, WEST GERMANY - 25-29 SEPTEMBER 1989

As in previous years, the conference (organized by the Commission of the European Communities), will cover all aspects of photovoltaic activities - from laboratory devices to complete photovoltaic systems, from material research to economic projections, from university research to industrial production.

Further information can be obtained from Prof. G. Wrixon or Dr S. MacCarthy, NMRC, University College, Lee Maltings, Prospect Row, Cork, Ireland, Tel.: (353) 21 276.871 ext. 2256/2171.

**THE 1989 INTERNATIONAL CONFERENCE ON DECOMMISSIONING OF NUCLEAR
INSTALLATIONS**

The European Community is conducting 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.

A conference will be organised again upon completion of the programme, to present the results achieved and to provide an opportunity for discussions between experts and scientists from within and outside the European Community on the issue and options for future research.

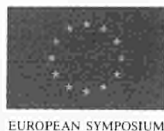
Topics which will be covered are:

- Long-term integrity of buildings and systems;
- Decontamination for decommissioning purposes;
- Dismantling techniques;
- Treatment of specific waste materials;
- Large waste containers;
- Estimation of radioactive waste quantities;
- Influence of installation design features;
- Testing of new techniques under real conditions.

Only invited papers will be presented by scientists involved in the programme through contracts, members of the Commission's scientific staff and guest experts. The Scientific Secretary is: Mr K. Pflugrad, Commission of the European Communities, DG XII, 200, rue de la Loi, B-1049 Brussels, Tel.: (32) 2 235.84.25 or 236.04.63, Tlx: 21877 COMEUR B, Fax: (32) 2 236.20.06.

Information regarding the conference programme, registration, fees, accommodation, transport, official and social events, will be communicated early in 1989, together with the preliminary programme. The following address may be of use to persons and organisations interested in receiving the preliminary programme:

CONFERENCE SERVICES
Mrs F. Rey
Avenue de l'Observatoire 3
Boîte 17
B-1180 BRUSSELS



SCIENCE, TECHNOLOGY AND EUROPEAN CULTURAL HERITAGE

Bologna, Italy, 13 - 16 June 1989

under the Patronage of:
FILIPPO MARIA PANDOLFI
Vice-President of the Commission of the European Communities

Organized by:
COMMISSION OF THE EUROPEAN COMMUNITIES
Directorate-General for Science, Research and Development

In association with:



Consiglio Nazionale delle Ricerche



Alma Mater Studiorum
Secretaria Scientifica



COMUNE DI BOLOGNA

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To be returned to: Dr A. Sors, Commission of the European Communities, DG XII-E, 200, rue de la Loi, B-1049 Brussels or Dr. ssa C. Sabbioni, Istituto FISBAT - CNR, via de' Castagnoli 1, I-40126 Bologna.

JOINT RESEARCH CENTRE, ISPRA, WILL BE HOLDING THE FOLLOWING SEMINARS:

A. Information Science

Cellular Automata: Methods and Applications

11-15 September 1989

Parallel Processing with Personal Computers

5-9 June 1989

Selected Topics of Monte Carlo: Applications in Science and Technology

6-10 November 1989

B. Health Physics and Radioprotection/Fondamenti di Radioprotezione

28 March - 7 April 1989

Advanced Seminar on Selected Topics in Radiation Protection

12-16 June 1989, Lisbon, Portugal

organized in collaboration with the Laboratorio Nacional de Engenharia e Tecnologia Industrial, Departamento de Proteçao e Segurança Radiologica (SACAVEM), Lisbon, Portugal.

C. Environment

Physico-Chemical Methods for Trace Analysis in Chemistry and Biochemistry

19-23 June 1989

D. Remote Sensing

Imaging Spectroscopy: Fundamentals and Prospected Applications

23-27 October 1989

E. Reliability and Risk Analysis/Structural Reliability

18-22 September 1989, Lisbon, Portugal

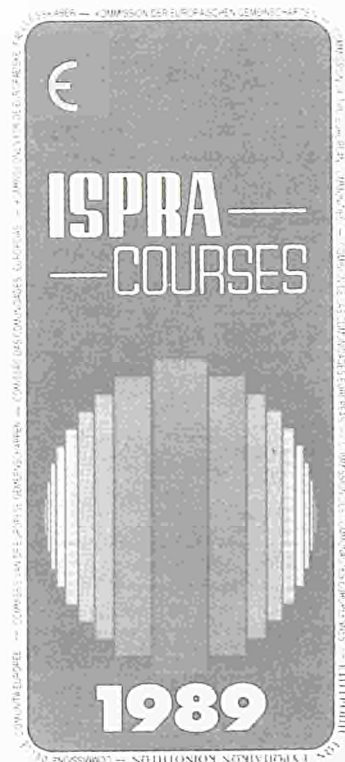
F. Energy

Parameter Identification Techniques for the Thermal Analysis of Buildings

9-11 October 1989

G. Various/Scientific Methods in Dating and their Applications

9-13 October 1989, Athens, Greece



Further information can be obtained from ISPRA Courses Secretariat, Joint Research Centre, I-21020 ISPRA (Varese), Tel.: (39) 332 78.98.39 / 78.98.19, Tlx: 380042 / 380058 EUR I.

EUROPEAN CONFERENCE ON LANGUAGE AND COMPUTERS

19-20 June 1989 — Palais de l'Europe, Strasbourg

The European conference on 'Language and Computers' is jointly organised by the Commission of the European Communities and the Council of Europe. Its principal aim is to highlight the growing economic, social and cultural importance of computerized language processing applications. The attention of decision-makers from key levels of government, science and industry will be drawn to the need for Europe to play an increasingly active role in this evolving area, not only for the sake of preserving the diversity of its languages and cultures, but also with a view to reducing the obstacles to communication in the perspective of 1992 and after.

The two-day conference will offer the possibility to consider the implications of computerized language processing and to assess the current situation and future prospects of applied research, especially with regard to:

- the essence of computational linguistics,
- research and development in the field of computational linguistics,
- speech synthesis and recognition.

The conference will also address industrial aspects, as regards industry as a supplier, industry as a user and policy aspects, with regard to national and international initiatives. This event will thus provide an opportunity for an active search of ways to build a comprehensive framework for concerted action at European level.

For further information, please contact Mr P.P. Rotondò, Commission of the European Communities, DG XIII, B4/083, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-3166 or 4805, Telex: 2423 / 3446 COMEUR LU, Fax: (352) 3401-3909.

Seminar on

Reactor Safety Research

20-24 November 1989, Congress Centre 'Villa Ponti', Varese (Italy)

The seminar is organized by the Joint Research Centre (JRC) of the Commission of the European Communities with the aim of presenting the results of the Reactor Safety Research Programme carried out between 1984 and 1988.

Request for further information

Surname

Forename

Mailing address

Please return to: Mr. W. Krischer, Commission of the European Communities, Institute of Safety Technology, Joint Research Centre — Ispra Site, I-21020 Ispra (Varese), Italy

AUGUST 16 - 18, 1989 · MUNICH · DEU

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MT SUMMIT II
c/o Mrs. J. Briehn
Deutsche Gesellschaft fuer Dokumentation e.V. (DGD)
Westendstrasse 19, D-6000 Frankfurt am Main 1
☎ 069-740805



Symposium on Technology Transfer by Cooperation

10th Anniversary of the
TT Program of the Karlsruhe
Nuclear Research Center

May 9 and 10, 1989

Questions should be addressed to:
Kernforschungszentrum Karlsruhe GmbH
Koordinationsstelle Technologietransfer
Postfach 3640 · D-7500 Karlsruhe 1
telephone (07247) 825581, Frau Ansbach

CORDIS DATA BASE WILL IMPROVE INFORMATION ON COMMUNITY R&D

Under the VALUE Programme (see page 2), the Commission is planning to set up a new electronic 'CRD Information Service' to provide information on Community R&D programmes within the Framework Programme (see page 5).

This system, whose name is **CORDIS** (**CO**munity **R**esearch and **D**evelopment **I**nformation **S**ervice), will disseminate:

- information on each of the Community RTD programmes and its projects and results;
- associated information on these programmes to assist policy makers and researchers in the Member States to better coordinate their activities at Community level. (In that capacity relevant information from initiatives outside the Commission, such as the EUREKA Programme, might also be available.)

The system is intended to provide the following categories of information:

1. Information for Planning and Programme Participation

References to programme definition documents, lists of expressions of interest in assisting in partnership formation, reference listings of R&D organisations, references to Commission public policy papers, sources of information associated with Community research, and announcements for related tenders or calls for proposals.

2. Information for Programme Execution

Objectives, structures and organisation of various programmes, project information within each programme, project participants, news on various programme activities and developments, announcements of major meetings, interim results of projects, reference to key Programme documentation.

3. Information for Exploitation of Results

Announcements of final project results, expressions of interest in cooperation for commercial exploitation, general programme evaluations, information and statistics for policy makers, reference to documents resulting from projects.

CORDIS will be based on the following key implementation principles:

The system will consist of a reference database and associated service components operated under the responsibility of the Commission. Copies or extracts of the database might in due course be made available for commercial external hosts in the information market.

In its final stage, **CORDIS** is intended to contain the following major **visible components**:

1. **Information Computer Host** - through which the databases of the service will be available. This host will be accessible through all European public data networks and possibly some specialised videotex or teletext services.
2. **Documentation Service** - expanding the present activities of DG XIII-C and including:
 - a. A reference and ordering service for documents published in association with Community RTD activities by the Commission Publications Office or external publishers.
 - b. Production of a series of reference documents based on material available to the service.
 - c. A periodical publication for service users reporting on new developments and facilities.
3. **News Service** - which will collect news items and disseminate these through different media, such as electronic bulletin boards, videotex services, etc.
4. **Telephone Enquiry Service** - which will be associated with a User Support Unit and will provide, in all major Community languages, information about the Service itself.

Of course it will take several years before all these components and services are fully operational. A first experimental CORDIS scheme including only some of the above features is planned to be operational in 1989. I&TT will keep you up to date with developments.

NEW CATALOGUE OF DG XIII-C PUBLICATIONS

The Scientific and Technical Communication Unit of DG XIII-C is to start issuing details of recent scientific and technical publications from the research and technological development programmes of the European Communities in the form of a regular booklet. If you would like to receive a specimen copy of the first of these booklets, when it becomes available, please write to:

Mr E. Phillips, Commission of the European Communities, DG XIII/C/3, B4/078, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-2916, Tlx: 2423 / 3446 COMEUR LU, Fax: (352) 4301-4129.

A SELECTION OF RECENT PUBLICATIONS FROM THE SCIENTIFIC AND TECHNICAL COMMUNICATIONS SERVICES

KEY TECHNOLOGIES

TURBULENT CHANGES IN INDUSTRY AS A RESULT OF INNOVATIVE DYNAMICS

Edited by H. Revermann, P. Sonntag

The upcoming European common market will have a decisive impact on technology policies. Managers will have to deal with current technical progress and structural change at the same time. Recent technological developments were assessed in this study with the objective of pinpointing on the critical areas for Europe, and of determining those components with significance for the future. The innovative effects of the information technologies involved were particularly examined in this paper. Emphasis was placed on the consequences for various sectors of industry. The breathtaking qualitative advances made in engineering hold out the promise of a number of product innovations.

The study was sponsored by the FAST (Forecasting and Assessment in Science and Technology) Programme of the Commission of the European Communities.

Commission of the European Communities, DG XIII-C, EUR 11380, ISBN 3-80071-516-3

Published by Avebury, Gower Publishing Company Ltd., Gower House, Croft Road, Aldershot, Hants GU11 3HR, United Kingdom, Luxembourg, 1989

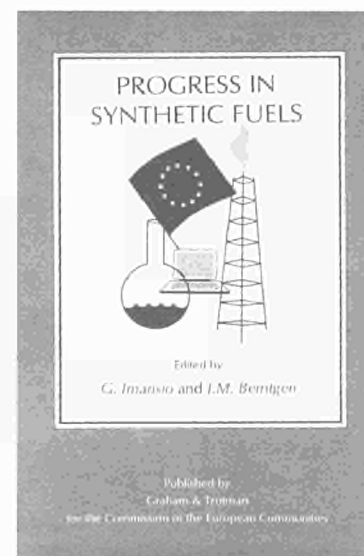
PROGRESS IN SYNTHETIC FUELS

Edited by G. Imarisio, J. M. Bemtgen

This first seminar on 'Progress in Synthetic Fuels' organised by the Commission of the European Communities, provides an excellent opportunity to survey the present status of the technologies involved in the use of synthetic fuels as an energy vector and the advances that have been achieved through the European Community R&D programme. It also provides an opportunity for disseminating the results as widely as possible.

EUR 11843, CEC, DG XIII-C, ISBN 1-85333-161-9

Published by Graham & Trotman Ltd., Sterling House, 66, Wilton Road, UK-London SW1V 1DE, ECSC, EEC, EAEC, Brussels and Luxembourg, 1988



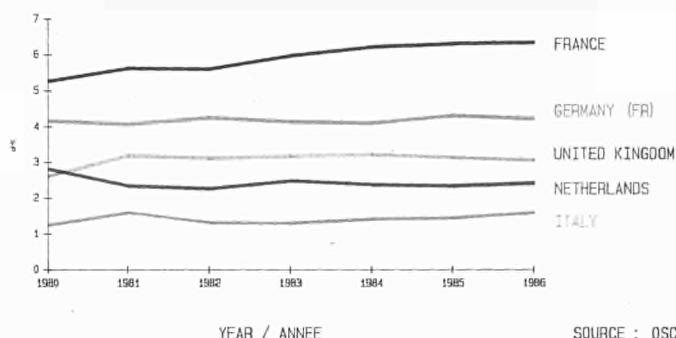
SCIENTIFIC RESEARCH AND TECHNOLOGICAL DEVELOPMENT IN THE COMMUNITY - THE FACTS IN FIGURES -, 1988 EDITION, COPOL 88

The aim of this report is to provide a brief and overall view of Research and Development in the Community. By providing some statistical data concerning the government financing of R&D in the Member States and their human research potential, it attempts to situate each one of them in the overall European framework as regards their R&D potential.

CEC, DG XIII-C, ISBN 92-825-9286-3

Published by the Office for Official Publications of the European Communities, ECSC, EEC, EAEC, Brussels and Luxembourg, 1989

R&D FINANCING AS A % OF THE TOTAL GOVERNMENT BUDGET
CREDITS DE R-D EN % DU BUDGET TOTAL DE L'ETAT



The graphs taken from this booklet show R&D financing as a % of the government budget

SOURCE : OSCE

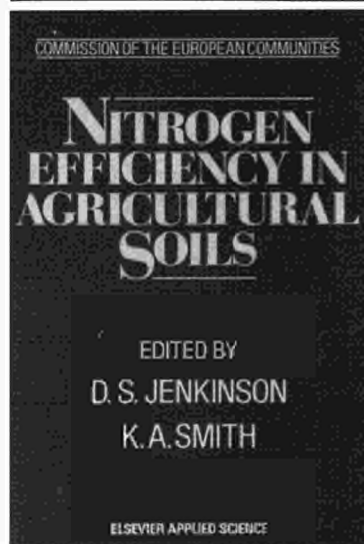
PUBLICATIONS ON AGRICULTURAL RESEARCH

AGRICULTURE - VACCINATION TO CONTROL RABIES IN FOXES / LA VACCINATION ANTIRABIQUE DU RENARD

Edited by P.P. Pastoret, B. Brochier, I. Thomas, J. Blancou

Proceedings of a symposium organized jointly by the 'Fonds pour la recherche contre la rage (Fo.Re.Ra.)', and the Commission of the European Communities, Directorate-General for Agriculture, Coordination of Agriculture Research Division, held in Brussels on 17 and 18 November 1987.

Published by the Commission of the European Communities, DG XIII-C, EUR 11439, ISBN 92-825-8377-5, Luxembourg, 1988



NITROGEN EFFICIENCY IN AGRICULTURAL SOILS

Edited by D.S. Jenkinson, K.A. Smith

This book contains the papers presented at a Seminar on 'Nitrogen efficiency in agricultural soils and the efficient use of fertilizer nitrogen', held at the University of Edinburgh, 16-18 September 1987. The Seminar was organised on behalf of the Commission of the European Communities as part of their 'Energy in Agriculture' Research Programme.

Commission of the European Communities, DG XIII-C, EUR 11542, ISBN 1-85166-240-5

Published by Elsevier Applied Science Publishers Ltd., Crown House, Linton Road, Barking, Essex IG11 8JU, United Kingdom

Brussels and Luxembourg, 1988

FLAX: BREEDING AND UTILISATION

Edited by G. Marshall

This publication contains the proceedings of a Flax Workshop held in Brussels, Belgium, on 4-5 May 1988, under the auspices of the Commission of the European Communities, as part of the EEC Common Research Programme on Plant Productivity.

Commission of the European Communities, DG XIII-C, EUR 11585, ISBN 0-79230-065-3

Published by Kluwer Academic Publishers, P.O. Box 17, NL-3300 AA Dordrecht, Brussels and Luxembourg, 1988

AGRICULTURE - PROGRAMME DE RECHERCHE AGRIMED

Edited by Ch. Grasselly

7e colloque du Gremipa, Groupe de recherche et d'étude méditerranéen pour le pistachier et l'amandier. Recueil des communications, Reus (Tarragone), Espagne, 17-19 juin 1987

Commission of the European Communities, EUR 11557 - FR/EN/IT/ES, ISBN 92-825-8425-9

Published by the Office for Official Publications of the European Communities, Brussels and Luxembourg, 1988

THE MANAGEMENT AND HEALTH OF FARMED DEER

Edited by H.W. Reid

The purpose of the book is to provide a review of recent developments and experience in the field of deer and to bring together all available information on the subjects of breeding, nutrition, growth, husbandry, management and the diagnosis and control of deer-specific diseases.

Commission of the European Communities, DG XIII-C, EUR 11540, ISBN 0-09838-408-7

Published by Kluwer Academic Publishers, P.O. Box 17, NL-3300 AA Dordrecht, Brussels and Luxembourg, 1988

A PRELIMINARY ASSESSMENT OF THE RADIOLOGICAL IMPACT OF THE CHERNOBYL REACTOR ACCIDENT ON THE POPULATION OF THE EUROPEAN COMMUNITY

Edited by M. Morrey, J. Brown, J.A. Williams, M.J. Crick, J.R. Simmonds, M.D. Hill

The aim of the study was to review information on the environmental contamination measured in Member States of the EC; to make a preliminary assessment of individual and population doses for each country; to make an estimate of the resulting health impact and to indicate the effects of the various countermeasures taken by Member States in terms of the reductions in both individual and population exposure which they produced. All of the main pathways by which people have been and will be exposed to radiation as a result of the accident were included in the assessment.

Commission of the European Communities, DG XIII-C, EUR 11523, ISBN 92-825-8499-2

Published by the Office for Official Publications of the European Communities, Brussels and Luxembourg, 1988

EXPLOITING THE RESULTS OF PUBLICLY-FUNDED RESEARCH NEW EUROTECHALERT INITIATIVE

— ABSTRACTS SOON AVAILABLE IN A PERIODICAL —

The **EuroTechAlert** scheme aimed at supplying industry with information extracted from technical reports resulting from publicly-funded research is soon to get a face-lift. Since its inception in 1986, EuroTechAlert has depended on the trade and technical journals as the means of bringing this information to the attention of potential users. As an experiment aimed at broadening the target audience, EuroTechAlert information is also to be made available in the form of a newsletter.

The original inspiration for EuroTechAlert was a British scheme called TechAlert, in which technical reports are sifted for potentially innovative information, which is then brought to the attention of industry through the medium of the trade and technical press. In EuroTechAlert, the TechAlert idea is expanded from the national to the European scale, as a contribution under the SPRINT strategy to improve access to information and knowledge that will encourage innovation and technology transfer across the European Community.

At present, EuroTechAlert closely follows the precedent set by TechAlert. Participating Member States scan the technical reports resulting from their publicly-funded research programmes for items which are likely to be of particular interest to industry, and summaries are produced of promising material. An important factor is that the summaries should be written in a style compatible with publication in the trade and technical press. The summaries are circulated among the participants; each participant is then responsible for picking out summaries containing information likely to be of interest in their Member State, and for getting them published in the appropriate journals. In practice however it has proved possible to disseminate in this way only a fraction of the information generated under EuroTechAlert, chiefly because of the pressure on space in the technical journals, which has meant that their editors often select only a few of the EuroTechAlert summaries submitted to them for publication. Much of the EuroTechAlert material is as a result being disseminated in only a few of the participating Member States.

It is to overcome this problem that the EuroTechAlert newsletter has been conceived. In this experiment, each issue of the newsletter will contain details of all current EuroTechAlert items. EuroTechAlert participants will be able to choose how they use the newsletter: it could, for example, be given away at exhibitions, or distributed through chambers of commerce, trade associations and professional societies, and — in keeping with the original TechAlert idea — issued as an insert in the trade and professional journals. The newsletter is being compiled by Microinfo Limited, the United Kingdom firm which operates EuroTechAlert on behalf of the UK Department of Trade and Industry, which is the project manager for EuroTechAlert.

If you are interested in receiving a specimen copy of the newsletter when it is published later this year, please write to: Mr E. Phillips, Commission of the European Communities, DG XIII/C/3, B4/078, Jean Monnet Building, L-2920 Luxembourg. Tel.: (352) 4301-2916, Tlx: 2423 / 3446 COMEUR LU, Fax: (352) 4301-4129.

FLUE GAS AND FLY ASH/COAL/WATER MIXTURES

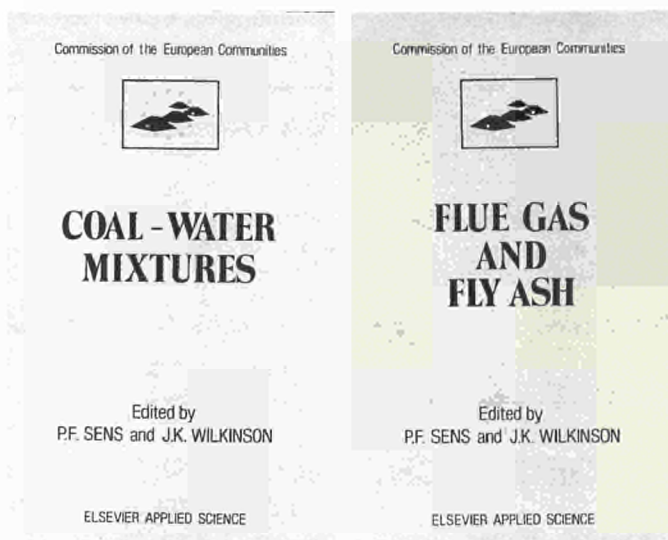
Edited by P.F. Sens, J.K. Wilkinson

The present volumes represent the second and third publication from the energy R&D programme 'Utilization of Solid Fuels', performed under the supervision of Directorate-General XII for Science, Research and Development of the Commission of the European Communities. The 'Utilization of Solid Fuels' programme addresses the following issues: fluidized bed combustion, coal/water mixtures, burner development, solid fuels in integrated cycles, environmental aspects, transportation and handling and basic studies of solid fuel combustion and properties.

Published by the Commission of the European Communities, DG XIII-C, Brussels and Luxembourg, 1989

Flue gas and fly ash, EUR 11845, ISBN 1-85166-324-X, Coal/water mixtures, EUR 11846, ISBN 1-85166-323-1

Published by Elsevier Science Publishers Ltd., Crown House, Linton Road, Barking, Essex IG11 8JU, United Kingdom



JUST PUBLISHED — TRAINING IN INNOVATION MANAGEMENT

Proceedings of a European symposium organized jointly by the Commission of the European Communities, DG XIII, the Ministry of Research and Higher Education (France) and ANVAR (Agence nationale de valorisation de la recherche) and held in Paris (France), 14 and 15 April 1989.

EUR 11868, ISBN 92-825-9192-1 (English) and 92-825-9193-X (French), Brussels and Luxembourg, 1989

EACRO LAUNCHED - THE EUROPEAN ASSOCIATION OF CONTRACT RESEARCH ORGANISATIONS EUROPEAN SYMPOSIUM PROPOSED

Following the recommendations of the study of Contract Research Organisations in the CEC commissioned by DG XIII-C of the CEC last year (see I&TT, 1/89, page 32), EACRO, the European Association of Contract Research Organizations has been launched. Mr G. Mordchelles-Regnier, Director-General of BERTIN & Cie, France, and President of ASIRDI (Association des Sociétés Indépendantes de Recherche et Développement Industriels) was elected as the first Chairman of the new association. Founder members also include the Fraunhofer Gesellschaft, West Germany, TNO, The Netherlands, members of AIRTO, United Kingdom, and the Italian organisations CISE/CESI and ISMES. The Association will also have links to FEICRO (Federation of European Independent Contract Research Organisations).

The aims of the Association are to promote awareness of the CROs among governmental and private sector organisations, to obtain better conditions for the profession and to enhance cooperation between members in order to improve their individual efficiency. Specific aims include the establishment of a European network of technological excellence between members and to establish cooperation with the Commission for the creation and diffusion of generic technologies of interest to several industrial sectors.

Further details and membership criteria can be obtained from Mr G. Mordchelles-Regnier, Chairman of EACRO, Société Bertin & Cie, B.P. 3, F-78373 Plaisir Cédex, Tel.: (33) 1 34.84.85.07, Fax: (33) 1 30.54.04.14 or Mr I. Traill, Commission of the European Communities, DG XIII/C/1, B4/105, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-4532, Tlx: 2423 / 3446 COM-EUR LU, Fax: (352) 4301-4129.

A second meeting of the working group of experts from Contract Research Organisations was held under the auspices of DG XIII/C/1 in Luxembourg on 19 April. Among the projects discussed was the proposal from TNO to organise a European Symposium on Contract Research later this year.

EUROPEAN COMMUNITY DESIGN PRIZE 1990 — BARCELONA CENTRO DE DISEÑO ENTRUSTED WITH THE PREPARATIONS —

At its last meeting the CIT design working group (see I&TT, 1/89, page 27) reached a consensus to entrust the Barcelona Centro de Diseño with the preparations for the European Community Design Prize. At the next meeting of the group on 10th May 1989 in Luxembourg further details of the selection procedure, the composition of the jury, etc., will be discussed. The Design Task Force also agreed in principle to set up a working party on Design Auditing Methodology. This proposal had been put forward by the Bilbao Centro de Diseño Industrial, which is to present to the Commission a proposal covering the envisaged work programme and detailing the financial resources necessary to carry it out.

Further information can be obtained from Mr F. Simoes, Commission of the European Communities, DG XIII/C/1, B4/101a, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-4564, Tlx: 2423 / 3446 COMEUR LU, Fax: (352) 4301-4129.

SPRINT/COMETT SURVEY ON THE RESEARCH-INDUSTRY INTERFACE IN THE COMMUNITY AND THE ROLE OF INDUSTRIAL LIAISON OFFICERS

The Commission has concluded a contract with FHG-ISI, Karlsruhe, West Germany, as lead partner, and TNO, The Netherlands, Ecole Centrale de Management, Paris, France, PREST University of Manchester, United Kingdom, to set up a survey on the role of the so-called Industrial Liaison Officers - ILOs. This joint SPRINT/COMETT initiative will examine the procedures adopted in each Member State and evaluate the impact of the ILOs in the innovation process.

Another joint COMETT/SPRINT project aims to identify all those professionals engaged in the research-industry interface (in particular the ILOs) and their respective training needs. A directory of relevant bodies in the Community will be an end product of this survey. The launching of Community-sponsored training courses for ILOs and the setting-up of a European Association of ILOs might be envisaged as medium-term objectives.

Further information can be obtained from Mr J.E. de Freitas, Commission of the European Communities, DG XIII/C/1, B4/075a, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-4851, Tlx: 2423 / 3446 COMEUR LU, Fax: (352) 4301-4129.

DIRECTORY OF COLLECTIVE INDUSTRIAL RESEARCH CENTRES IN EUROPE

A directory containing the coordinates of about 400 collective industrial research centres in Europe - often called 'industrial research associations' in the United Kingdom, 'centres techniques' in France and 'Forschungsgemeinschaften' in Germany - has been compiled on a country-by-country basis as a part of the SPRINT action to promote transnational cooperation between these centres.

Further information on 'industrial research centres' can be obtained from Mr D. Janssens, Commission of the European Communities, DG XIII/C/1, B4/101, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-4407, Tlx: 2423 / 3446 COMEUR LU, Fax: (352) 4301-4129. A copy of this directory can be obtained on written request from Mrs S. Dria (see address above).

SPRINT CALL FOR PROPOSALS EXPECTED SOON

Subject to the forthcoming discussions in the relevant institutions the Commission plans to launch a SPRINT call for proposals by May 1989. The possible deadline for submitting proposals will be two months after publication.

Proposals will be invited for three schemes:

A. PROMOTION OF TRANSNATIONAL COOPERATION BETWEEN TECHNOLOGY AND INNOVATION MANAGEMENT ADVISORY SERVICES

This scheme covers transnational cooperation projects between technology advisory organisations, including regional development agencies, chambers of commerce, technology and licence brokers and private management consultants. The aim of these cooperation projects should be to promote and bring about international exchanges of technology involving SMEs from the respective regions and/or sectors.

Proposals may be submitted by any natural or legal person, public or private body, institution or group established in the territory of a Member State and that provides, wholly or in part, technology and innovation management advisory services to firms.

B. PROMOTION OF TRANSNATIONAL COOPERATION BETWEEN INDUSTRIAL RESEARCH ASSOCIATIONS, TECHNICAL INSTITUTES AND OTHER SIMILAR BODIES

Under this scheme proposals will be welcomed for transnational cooperation between industrial research associations, technical institutes and other similar bodies, the aim being to promote technology transfer towards, and innovation in, enterprises in the respective sector. Proposals may be submitted by any industrial research association, technical institute or similar organization offering services in the fields of innovation and technology transfer to industry. Proposing organizations must be established on the territory and serve the industry of a Member State of the European Communities. They may be profit making, but must be non-profit-distributing.

In addition to supporting collaboration between industrial research associations and technical institutes, it is intended to gather a limited number of proposals for transnational cooperation between contract research organizations, university-industry or research-industry liaison organizations and engineering consultancies, the aim of which will be to promote industrial innovation and technology transfer at a transnational level.

C. PROMOTION OF EUROPEAN CONFERENCES OR WORKSHOPS ON TECHNOLOGY AND INNOVATION

This scheme is intended to promote the Community-wide dissemination of information concerning innovation and/or technology transfer. Proposals will be invited from the organizers of conferences on innovation or technology who are prepared to give a European dimension to conferences which would normally be held on a national or regional basis. Proposals may be submitted by any natural or legal person, public or private body, institution or group established in the territory of a Member State. Only proposals for European conferences etc. which are scheduled to take place after 31 March 1990 will be accepted.

Please note:

- Your proposals under Schemes A and B must involve partners in at least two different Member States, but preferably more;
- Applications should be submitted on a special form which can be obtained by returning the information sheet on the next page, duly completed;
- The complete Calls for Proposals will be published in the Official Journal.



INTERNATIONAL CONFERENCE ON ENGINEERING DESIGN

22nd TO 25th AUGUST '89, HARROGATE INTERNATIONAL CENTRE, UK

Organised by: INSTITUTION OF MECHANICAL ENGINEERS; Sponsored by the CEC under the SPRINT Programme

ICED '89 is about improving engineering design in industry by consideration of the latest international developments in technology, management, education and training.

All enquiries about the Conference should be addressed to: Miss M. Lee, Conferences Manager ex 314, Conference Department C 377, The Institution of Mechanical Engineers, 1 Birdcage Walk, UK-London SW1H 9JJ, Tel.: (44) 1 222.78.99, Tlx: 917944, Fax: (44) 1 222.98.81.

SPRINT CONTRACTORS' CONFERENCE

LUXEMBOURG, 11-12 JULY 1989

This year, the annual meeting of the 150-plus contractors participating in the networks of technology transfer intermediaries will take place in Luxembourg on Tuesday and Wednesday 11 and 12 July.

There will be, for the first time, experimental 'Networking Sessions'. We hope to be able to report on the outcome of this meeting in a later issue.

SPRINT CALL FOR PROPOSALS

ORDER FORM FOR APPLICATION FORMS

(to be returned to the SPRINT Secretariat - see address below)

Name of the person requesting the application form(s)

If applicable, name of the enterprise or organization which you represent

Address

Telephone

Telefax

Telex

1. Please send to the above address an application form for the:

- ☐ Call for proposals for the promotion of transnational cooperation between technology and innovation management advisory services to small and medium-sized enterprises and accompanying measures (see A.)
- ☐ Call for proposals for the promotion of transnational cooperation between industrial research associations, technical institutes and other similar bodies (see B.)
- ☐ Call for proposals for the promotion of European conferences on technology and innovation (see C.)

2. Please send the application form in the following languages:

- ENGLISH ☐
- FRENCH ☐
- GERMAN ☐

3. Please send a list of the projects and participants currently supported in the context of the action on:

- ☐ transnational cooperation between technology and innovation management advisory services to small and medium-sized enterprises
- ☐ transnational cooperation between industrial research associations, technical institutes and other similar bodies

Please return to: The SPRINT Secretariat, Commission of the European Communities, DG XIII/C/1, B4/100, Jean Monnet Building, L-2920 Luxembourg.

EUROTECH PROJECT FORGES AHEAD

At the last meeting of the EUROTECH Group on 3 March in Paris, further progress was made. The discussion focused on the rules and procedures to be applied within the group after its extension to include five new partners (see I&TT, 1/89, page 27).

EUROTECH aims to improve the level of exploitation of national R&D results in other Member States through the mutual assistance of the partners. A number of technologies have already been identified and are about to be fully assessed and marketed in different stages of acceptance by the members.

The group also agreed to draft a detailed proposal on the main phase of EUROTECH (1990-1993) within the next few months. Its next meeting will be held in Madrid on 15 and 16 June 1989.

Further information on EUROTECH can be obtained from Mr J.E. de Freitas, Commission of the European Communities, DG XIII/C/1, B4/075a, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-4851, Tlx: 2423 / 3446 COMEUR LU, Fax: (352) 4301-4129.

TECHNOLOGY TRANSFER NETWORKS

— Transnational technological cooperation between enterprises under SPRINT —

Under the SPRINT Programme a transnational network of specialised intermediaries has been built up (working within chambers of commerce and industry, consultancy bureaux, industrial liaison offices at universities, regional development agencies, etc.). These intermediaries help enterprises to find partners in other European countries with whom they can come to satisfactory technology-based agreements.

About 170 SPRINT contractors in this action are organized in about 50 projects or micro-networks. Most of these have 3-4 partners in as many different Community countries.

In this section of 'I & TT' we are publishing on a regular basis the addresses and contact persons of all SPRINT-sponsored advisory bodies and their partners. They will help you in carrying out your transnational technology transfer projects. Do not hesitate to contact them when you think your innovations, new products and processes are eligible for applications abroad. In this issue we publish the addresses of the advisory bodies in the Netherlands, Luxembourg and Spain. In I&TT 3/88 we published the addresses in Belgium, Greece and Germany, in issue 4/88 in Denmark, Portugal and the United Kingdom, and in issue 1/89 France, Italy and Ireland.

NETHERLANDS

NAME AND ADDRESS OF ADVISORY BODY	PARTNER ADVISORY BODIES		NAME AND ADDRESS OF ADVISORY BODY	PARTNER ADVISORY BODIES	
MARKETING ADVISORY BUREAU RODERKERK Mr RODERKERK Tweede Morgen 56 NL-5233 BJ DEN BOSCH Tel: 31.73-423771	EUROPOOL CTA ECONOMIC & EXPORT ANALYSIS IBCOM	(B) (UK) (I)	EINDHOVEN UNIVERSITY OF TECHNOLOGY Mr J.M. VERVOORT Den Dolech 2 NL-5612 AZ EINDHOVEN Tel: 31.40-47204 Telex: 51163 tuehv Fax: 31.40-455925	EOLAS GOM ANTWERPEN DTO	(IRL) (B) (DK)
BTC — TWENTE Mr VAN DIREM Hengelosestraat 705 P.O.Box 545 NL-500 AM ENSCHEDE Tel: 31.53-336355 Telex: 44277 btctw	CENTRE SOCRAN DENAC METROPOLITAN BOROUGH OF CALDERDALE PROMOTECH	(B) (E) (UK) (F)	VENTURE MARKET BV Mr H. TAMMINGA Van Eeghenstraat 81 NL-1071 EX AMSTERDAM Tel: 31.20-750160 Fax: 31.20-10353	MARCH TECHNOLOGIES LTD XENIUS SA FRANCE PACIFIC CONSULTANTS SARL DIPL.-ING. K. HÜBNER	(UK) (E) (F) (D)
NV REDE Mr SANDERS Stadhuisplein 6 P.O. Box 2009 NL-5611 EM EINDHOVEN Telex: 51835	HERIOT-WATT UNIVERSITY RESEARCH PARK LIFE TECHNOLOGIEZENTRUM DORTMUND LANARKSHIRE INDUSTRIAL FIELD EXECUTIVE	(UK) (UK) (D) (UK)	TECHNOLOGY MANAGEMENT CONSULTANCY Mr S.A. HEIJN Jansbuitensingel 7/8 NL-6811 AA ARNHEM Tel: 31.85-510098 Telex: 75281 snc nl Fax: 31.85-438050	PAX TECHNOLOGY TRANSFER LTD BYRNE LOWE ASSOCIATES DUREXPORT INTERNATIONAL LICENSING SERVICES SRL ACTINOVE INDUSTRIE- & WIRTSCHAFTS-BERATUNG	(UK) (IRL) (E) (I) (F) (D)
EINDHOVEN UNIVERSITY OF TECHNOLOGY TRANSFER Mr N.H. DOUBEN Den Dolech 2 NL-5612 AZ EINDHOVEN Tel: 31.40-472047 Telex: 51163 tuehv Fax: 31.40-455925	UNIVERSITÄT BREMEN	(D)	UNIVERSITY OF TWENTE Mr C. VAN LOOKEREN CAMPAGNE P.O.Box 217 NL-7500 AE ENSCHEDE Tel: 49.53-899111 Telex: 44200	EUROPEAN TECHNOLOGY ENTREPRENEURS CENTRE ZAM DER BAYERISCHEN FACHHOCHSCHULEN LABORATÓRIO NACIONAL DE ENGENHARIA CIVIL UNIVERSITAT POLITÈCNICA DE CATALUNYA	(UK) (D) (P) (E)
EXPORT SERVICE CENTRUM Mr VAN DER MOLAN Zijpendaalsweg 21-23 NL-6814 C ARNHEM Tel: 31.85-512716 Telex: 45672 esc nl Fax: 31.85-515677	CEGOS BELGIUM SA MUNDT CONSULTING COMPANY HEIDEMIJ FRANCE	(B) (I) (F)			

LUXEMBOURG

NAME AND ADDRESS OF ADVISORY BODY	PARTNER ADVISORY BODIES		NAME AND ADDRESS OF ADVISORY BODY	PARTNER ADVISORY BODIES	
CHAMBRE DES METIERS Mr Eugène MÜLLER 41, rue Glesener L-1631 LUXEMBOURG Tel: 352-400022/1	HANDWERKSKAMMER TRIER HANDWERKSKAMMER DES SAARLANDES	(D) (D)	FED. API-PME Mr Robert HOLTZ 22 Bvd de la Foire L-1528 LUXEMBOURG Tel: 30.1-7787775 Telex: 218819 hmih Fax: 30.1-799647	EOMMEX	(GR)

SPAIN

NAME AND ADDRESS OF ADVISORY BODY	PARTNER ADVISORY BODIES		NAME AND ADDRESS OF ADVISORY BODY	PARTNER ADVISORY BODIES	
ASESORÍA INDUSTRIAL ZABALA Mr J.M. ZABALA Navas de Tolosa, 5 2 Izquierda E-31002 PAMPLONA Tel: 34.48-228963 Telex: 37868 Fax: 34.48-222009	CCI ARIST AQUITAINE GOMOV NESDA	(F) (B) (UK)	SAGAZDE ÁLAVA SA Mr SAGAZDE C/ Arca N° 2 E-01005 VITORIA Tel: 34.45-282300 Telex: 35259 sgzd e Fax: 34.45-233474	GESELLSCHAFT FÜR WIRTSCHAFTSFÖRDERUNG SAAR MBH SCOTTISH DEVELOPMENT AGENCY CRCI CENTRE	(D) (UK) (F)
CCIN BARCELONA Mr MINGUELLA Calle Ample 11-13 E-08002 BARCELONA Tel: 34.3-3023366 Telex: 54713 coiba e Fax: 34.3-3016176	MIPRAX CCI TOULOUSE	(D) (F)	UNIVERSIDAD DE CANTABRIA Mr E.M. AMROSIO ORIZOLA Avenida de los Castros E-SANTANDER Tel: 34.42-217811	UNIVERSITY DE ROUEN UNIVERSITE DU HAVRE	(F) (F)
SOFAD Mr RECONDO Rodríguez Arias 23-305 E-48011 BILBAO Tel: 34.4-4447610 Telex: 34788 sfad e Fax: 34.4-4447610	GOM VLAAMS BRABANT INDUSTRIAL DEVELOPMENT AUTHORITY DTO EETAA ARIST LORRAINE (F) THE TECHNOLOGY EXCHANGE	(B) (IRL) (DK) (GR) (UK)	INSTITUTO DE FOMENTO REGIONAL Mr Fernandez FELGUEROSO C/ Cervantes N° 27 E-33004 OVIEDO Tel: 34.85-257399 Telex: 8419 zura e Fax: 34.85-252101	CCI DU MORBIHAN	(F)
DENAC Mr E. AMIANO Plaza de España 4 E-48001 BILBAO Tel: 34.4-4248645 Telex: 34194 mpsi e Fax: 34.4-4242280	CENTRE SOCRA BTC TWENTE METROPOLITAN BOROUGH OF CALDERDALE PROMOTECH	(B) (NL) (UK) (F)	IMPIVA Mr Rafael RAMOS Plaza del Ayuntamiento 6 E-46002 VALENCIA Tel: 34.6-3510100 Telex: 62210 ipiva Fax: 34.6-3514064	DTO AGENCE REGIONALE DE DEVELOPPEMENT NORD-PAS-DE-CALAIS	(DK) (F)
CCI TARRAGONA Mr J.R. GISPERT Apartado 356 Rovira i Virgili 2 E-4301 TARRAGONA Tel: 34.77-219676 Telex: 56573 Fax: 34.77-210900	CCI MULHOUSE CCI BERGAMO	(F) (I)	CORPORACIÓN DE GESTIÓN BARCELONA Mr José Fernandez APARICI Rosellón 257 5°E E-08037 BARCELONA Tel: 34.3-2155959 Fax: 34.3-3194147	TECHNOLOGY INTERNATIONAL EXCHANGE EXTRAMET MANAGEMENT SA MASBIOTECH SPA TECHNOLOGY INTERNATIONAL EXCHANGE DANISH TECHNOLOGY TRANSFER	(UK) (F) (I) (UK) (DK)
IFA Mr A. PRIETO Avenida Bías Infante 8P11 E-41011 SEVILLA Tel: 34.4-56011	APRODI IAPMEI	(F) (P)	XENIUS SA Mrs Susana MATAIX Calle Velazquez 126 E-28006 MADRID Tel: 34.1-2612544	MARCH TECHNOLOGIES LTD FRANCE PACIFIC CONSULTANTS SARL DIPL.-ING. K. HÜBNER VENTURE MARKET BV	(UK) (F) (D) (NL)
CCI Y NAVEGACIÓN DE VALENCIA Mr Gerardo CANET Poeta Querol 15 E-46002 VALENCIA Tel: 34.6-3511301 Telex: 62380 cocine Fax: 34.6-3516349	CCI BREST EMDEME LEVI SACERDOTTI	(F) (P) (I)	DUREXPORT Mr Anton IMAZ LORONO Maspe 28 E-48200 DURANGO Tel: 34.681-883 Telex: 34434 tabi e	PAX TECHNOLOGY TRANSFER LTD BYRNE LOWE AND ASSOCIATES INTERNATIONAL LICENSING SERVICES ACTINOVE INDUSTRIE- UND WIRTSCHAFTSBERATUNG TECHNOLOGY MANAGEMENT CONSULTANCY	(UK) (IRL) (I) (F) (D) (NL)
LAFORA & COMAS Mr José LAFORA Avda Diagonal 405 E-08008 BARCELONA Tel: 34.3-231722 Telex: 50533 lawb-e Fax: 34.3-2180448	D'ADLER RACZ EMDEME INFOGROUP AGRICONTACT POLYTEC	(B) (P) (GR) (DK) (D)	UNIVERSITAT POLITÈCNICA DE CATALUNYA Mr Juan PERACAU Avda. Diagonal 64 E- 08028 BARCELONA Tel: 34.3-2401937 Fax: 34.3-3334864	UNIVERSITY OF TWENTE EUROPEAN TECHNOLOGY ENTREPRENEURS CENTRE ZAM DER BAYERISCHEN FACHHOCHSCHULEN LABORATÓRIO NACIONAL DE ENGENHARIA CIVIL	(NL) (UK) (D) (P)
GDS TECNOGESTIÓN Mr Roberto GILI Tuset 5-11 Planta 3ª E-08006 BARCELONA Tel: 34.3-2017133 Telex: 97156 Fax: 34.3-2016055	INNOVI NV CGI WOLFRAM CIMO	(B) (D) (F)	INSTITUTO TECNOLÓGICO DE ARAGÓN Mr C. VERA ALVAREZ Calle Poeta Luciano Gracia s/n E-50015 ZARAGOZA Tel: 34.76-513600	CENTRE EUROPEEN DU DEVELOPPEMENT REGIONAL CENTRO REGIONALE SERVIZI PMI SRL COMISSÃO DE COORDENAÇÃO DA REGIÃO NORTE	(F) (I) (P)
IMPIVA Mr Fernando PALOP Plaza País Valenciano 6 E-46002 VALENCIA Tel: 34.6-3510100 Telex: 62210 circet e	EOLAS TECNOMEDIA	(IRL) (I)			

SPRINT COOPERATION ON CAD TRAINING PROGRAMME IN THE FOOTWEAR SECTOR

Within the framework of the SPRINT Programme, and as one of the results of the RA/020 project, the training manual on CAD systems (Computer Aided Design) was drawn up and applied to the footwear sector.

This manual is divided into the following chapters:

- I — Study of lasts, international widths and sizes.
- II — Pattern-making and fitting of footwear models according to traditional systems.
- III — CAD applied to pattern design/grading and cutting.
- IV — Graphic design theory applied to the footwear sector.
- V — The guide to purchasing CAD systems.



The INESCOP Building in Elda, Spain

The first chapter deals with lasts, the materials they are produced with, the processes in last manufacturing and the various systems used in their grading. The following chapter begins with a study on foot anatomy, with reference to load distribution, deformations and growth, followed by the theories of fittings on patterns, definition of pieces, and grading and obtaining of patterns. In the third chapter the knowledge of footwear pattern design/grading and cutting is applied, using CAD systems to carry out this process interactively between computer and pattern-engineer. The fourth chapter deals with design as an artistic conception, its functional, anatomical and expressive aspects, the methodology and its applicability to footwear design, and design as a factor in competitiveness in the footwear industry.

The guide to purchasing CAD systems indicates to the future purchasers of footwear CAD/CAM equipment some of the points to be considered before investing in computer aided design and some of the questions to be put to CAD system suppliers in order to help when making a decision to buy.

The following partners participate in the RA/020 project:

- SATRA. Footwear Technology Centre. (UK)
- INESCOP. Instituto Español del Calzado y Conexas. (E)
- PFI. Prüf- und Forschungsinstitut für die Schuhherstellung. (D)
- CTC. Centre Technique Cuir Chaussure Maroquinerie. (F)
- HELKEDE. Hellenic Leather Centre. (GR)
- CTCA. Centro Tecnológico do Calçado. (P)
- TNO. Leather and Shoe Research Institute. (NL)

Further information can be obtained from Mr. F. SALAS, INESCOP, Tel.: (65) 39 52 13, Tlx: 682 69, Fax: (65) 38 10 45 and Mr J.R. Tiscar, Commission of the European Communities, DG XIII/C/1, B4/102, Jean Monnet Building, L-2920 Luxembourg, Tel. (352) 4301-4102, Tlx: 2423, 3446 COMEUR LU, Fax: (352) 4301-4129.

SPRINT GIVES BIRTH TO TECHNOLOGY CENTRE IN NAPLES

The low level of innovation among firms in the south of Italy — a result of the tendency for high technology to congregate in the more "advanced" areas — is destined to be a thing of the past in a typical area of underdevelopment where industry has simply copied the production of the more developed areas.

This is the premise for the start-up of the **FOUR TECH** project, which is designed to regulate the implementation of the SPRINT Programme of the Commission of the European Communities. The cooperation involves a kind of alliance among those who are the technology experts: on the one side there are European leaders such as Centec Business and Technology Consultants of Denmark, the German VDI/VDE Centre for Information Technology and the Scottish Development Agency, while on the other side you have **INNOVARE**, the limited company with Enzo Giustino as chairman which was set up two years ago with a capital of Lit 10 000 million. The main shareholder is the Banco di Napoli which holds 90%, with the rest held by a group of private investors in Naples.

The **FOUR TECH** project is basically aimed at three particular sectors: waste processing (with pollution monitoring), alternative sources of energy (with special emphasis on solar, wind and tidal energy) and biotechnology.

Another project in the SPRINT Programme using the same approach of international collaboration has recently been finalized and will look at the current situation regarding automation and the potential for further development among small and medium-sized undertakings in two key areas of underdevelopment in Europe: the south of Italy and Ireland. The idea is to identify the pattern of circumstances which hinders the spread of industrial automation in the depressed areas of Europe. A typical sample of 500 small and medium-sized undertakings in the two regions in question will be reduced to 100 firms which will be approached directly for interviews. In this second project **INNOVARE** will operate in liaison with the Science Policy Research Centre of the University of Dublin.

(partial reprint of an article published in 24 Ore of 3rd March 1989)

For further information please contact Mr N. Vincenzo, **INNOVARE** SpA, Largo Ferrantina, 1, I-80121 Naples, Tel.: (39) 81 40.41.33, Tlx: 710 008 INNOV I, Fax: (39) 81 40.47.23.

INCREASING NUMBER OF TRANSNATIONAL CONTRACTS CONCLUDED UNDER THE SPRINT TECHNOLOGY TRANSFER NETWORK SCHEME

— Agreements reached in 1988 double the average for 1983-1987 —

Following up a survey carried out at the end of 1987 on the number and nature of inter-company agreements reported by SPRINT contractors, an enquiry was addressed in October 1988 to the lead partners of the technology transfer networks supported by the Commission during 1988. Here are the main findings of the enquiry:

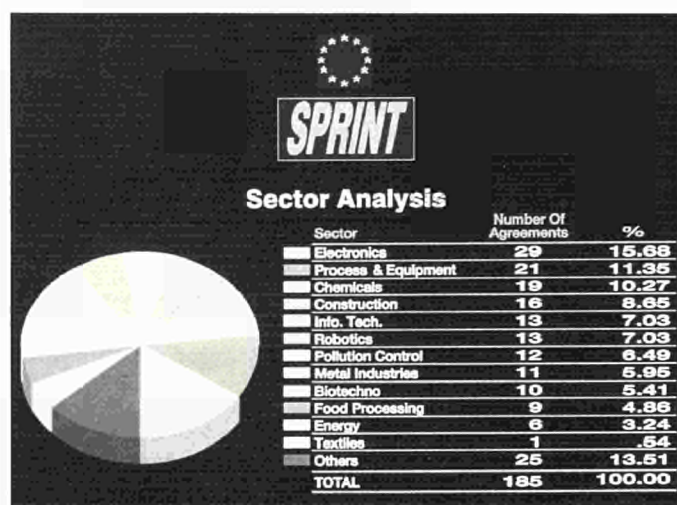
1. Number of agreements

	Signed	Pending	Total
Agreements 1983-1987	121	—	121
Agreements 1988	64	121	185
Total	185	121	306

The table shows that SPRINT contractors have produced 306 agreements since 1983, of which 185 have already been signed and 121 are still in negotiation. It should be noted that these 306 agreements represent 612 companies involved in the SPRINT network. The above figures also underline the fact that the efficiency of the networks has increased considerably since the 1987 survey: whereas, in the period between 1983 and 1987, an average of 30 agreements were signed per year, the 1988 survey reveals that the performance of the networks has doubled, with over 60 agreements signed during the last year. About 60 % of all the agreements signed aim at a specific form of cooperation, whereas the remaining 40 % involve several fields of cooperation.

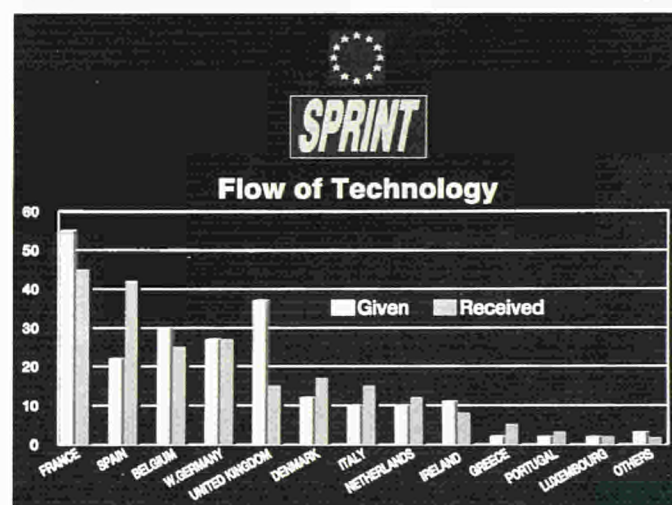
2. Sectors concerned

Graph 1 shows the breakdown of the sectors involved.



3. Flow of technology

Graph 2 shows the flow of technology agreements between the Member States.



Further information on this evaluation of the SPRINT Technology Transfer Network can be obtained from Ms G. Hetterich or Mr I. Traill, Commission of the European Communities, DG XIII/C/1, B4/105, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-4788 or 4301-4532, Tlx: 2423 / 3446 COMEUR LU, Fax: (352) 4301-4129.

FIRST EUROPEAN CONFERENCE ON THE OUTSIDE INSULATION OF FACADES

The first European Conference on the Outside Insulation of Facades was held in Paris on 3 and 4 November 1988. Together with the associated exhibition, it was attended by more than 450 people.

It was organized by the Agence Française pour la Maîtrise de l'Energie (AFME), the Plan Construction et Architecture and the Centre Scientifique et Technique du Bâtiment (CSTB) under the patronage of the SPRINT Programme of the Commission of the European Communities and the aegis of the Union Européenne pour l'Agrément Technique dans la Construction (UEATC).

There were two groups of participants. The first comprised construction engineers interested in these technologies but not acquainted with the research into these processes, and for them most of the papers presented contained a substantial amount of new information. The second group was made up of specialists in outside insulation long acquainted with the subject, and for them it was undoubtedly useful to keep up with progress and enlarge their field of knowledge at European level.

Further information can be obtained from Mr B. Abraham, Agence Française pour la Maîtrise de l'Energie (AFME), Service Habitat et Tertiaire, Route des Lucioles, F-06767 Valbonne-Sophia-Antipolis.

IMPROVING TECHNOLOGY FOR SMALL FOOD MANUFACTURERS — A SPRINT PROJECT

Three Research Associations — the Leatherhead Food RA, UK, National Food Centre, Ireland, and Adria, Quimper, France — have joined together in a SPRINT project to evaluate the mechanisms involved in technology transfer in small manufacturing enterprises in the food industry, to establish new channels for technology transfer and improve standards through consultancy. In accordance with the SPRINT philosophy of building up networks of bodies for technology transfer, emphasis has been put first on establishing which manufacturing enterprises are receptive to new technology and consultancy advice. In the next phase, starting in 1989, we shall be exchanging technologies for a short period between the research organizations so that they can work with firms in the countries they are visiting.

Some examples of the sort of work undertaken include the following:

A company processing eggs wanted to extend activities into making high-quality omelettes. Assistance was given in identifying a suitable cooking technology and the design of a continuous oven.

A company making a cured meat product had a problem in thawing raw materials. Assistance was given in evaluating a radio frequency thawing device that would be quick and hygienic and give the flexibility required. The preliminary conclusion was that the capital cost was too high.

A third company processing turkeys on a small scale wished to make contact with a similar company in another country to exchange ideas on quality and technology. Suitable contact names were provided.

Collaboration during the first phase has been very helpful to the three participating organizations, and several firms in each country have received useful assistance in improving their operations. The collaborating organizations would welcome other organizations to join with them in this project.

Further information can be obtained from Mr W.E. WHITMAN, Leatherhead Food R.A., Randhalls Road, Leatherhead, Surrey KT22, 7RY, Tel.: 44.372/376761 or Mr J.R. TISCAR, Commission of the European Communities, DG XIII/C-1, B4/102, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-4102, Tlx: 2423, 3446 COMEUR LU, Fax: (352) 4301-4129.



The photograph shows, Mr A. HUNTER (NFC) and Professor C. BOURGEOIS (ADRIA).

1992: L'ANALISI DEL VALORE FATTORE DI SUCCESSO DELL'IMPRESA EUROPEA

1° CONVEGNO EUROPEO DI ANALISI DEL VALORE

Milano, Hotel Executive, 16-17 ottobre 1989



1992: VALUE MANAGEMENT KEY TO SUCCESS IN EUROPEAN BUSINESS

1st EUROPEAN CONFERENCE ON VALUE MANAGEMENT

Milano, Executive Hotel, October 16-17 1989



The AIAV (Italian Value Analysis Association) in conjunction with the following European national associations:

ADV — Belgium, AEA — France, APAV — Portugal
VDI — Germany, ZWA — Austria and the assistance of specialists from Ireland, The Netherlands, The United Kingdom and Spain announces the

1st EUROPEAN CONFERENCE ON VALUE MANAGEMENT

The event is part of the 'Value Analysis Project' of the EEC's SPRINT Programme.

The Conference will include presentations by the most respected VM specialists in Europe and the world, along with testimonials by qualified users from the world of industry, services and public administration. Debates and round tables will offer the opportunity to compare different schools of thought and operating schemes, opinions and results.

Further information can be obtained from the Organizing Secretariat, MGR S.r.l., Via Servio Tullio, 4, I-20123 Milano, Tel.: (39) 2 481.35.58, Tlx: 315469 MGRMIL I, Fax: (39) 2 498.07.23. For information on the SPRINT Working Party on 'Value Analysis' contact Mr J. Tiscar, Commission of the European Communities, DG XIII/C/1, B4/102, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-4102, Tlx: 2433 / 3446 COMEUR LU, Fax: (352) 4301-4129.

EVCA FORUM DÜSSELDORF INTERNATIONAL FINANCE FOR FAST-GROWTH COMPANIES

— First-ever multi-country investment forum —

More than twenty of the most promising high-growth companies in Belgium, Germany and the Netherlands assembled in Düsseldorf on February 27-28 to meet investors from across Europe as part of a joint SPRINT/EVCA initiative to bring together financiers and innovative entrepreneurs.

The companies were selected by the national venture capital associations of Germany (DVCV), The Netherlands (NVP) and Belgium (BVA) - the co-organisers of the event - from a broad cross-section of industries ranging from biotechnology to computer graphics. All have shown potential for fast growth on an international scale and will be seeking finance for expansion in the foreseeable future.

Participating in the two-day event at the invitation of EVCA were more than 80 financiers representing venture capital firms, institutional investors, investment banks and corporate investors from a number of European countries. The investors were given short presentations in the morning sessions by the companies, while the afternoons were reserved for confidential discussions between interested parties. This was the first-ever multi-country forum organised for companies located in Belgium, Germany and The Netherlands.

One of the objectives of the FORUM is to introduce high-growth companies in these three countries to international financiers as opportunities for investment. The FORUM should encourage and facilitate greater collaboration and networking between financial groups and initiate transnational investment syndicates - an important factor in enabling companies to grow on a European scale. The Düsseldorf event, which was financially supported by the Commission of the European Communities under its SPRINT Programme, is seen as a pilot, and the intention is to organise further EVCE FORUMS in conjunction with national VC associations in other parts of Europe.

'Through the EVCA FORUM we are helping young companies with growth potential to meet potential financial backers. At the same time we are also encouraging the creation of transnational groups of investors which, in our view, can provide more effective backing for young companies as they expand on a Europe-wide scale,' said EVCA Chairman, Klaus Nathusius (GENES GmbH Venture Services, Cologne). 'Pan-European syndicates of venture capital investors, for example, have already demonstrated the extra support, both financial and managerial, they can give to companies as they expand into new markets in new territories.'

Further information can be obtained from Mr Y. Fassin, EVCA, Clos du Parnasse 11 F, B-1040 Brussels, Tel.: (32) 2 513.74.39, Tlx: 23379 or Mr D. Janssens, Commission of the European Communities, DG XIII/C/1, B4/101, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-4407, Tlx: 2423 / 3446 COMEUR LU, Fax: (352) 4301-4129.

TECHNOLOGY TRANSFER FORUM JOURNEES DE TRANSFERT DE TECHNOLOGIE

Pamplona, Spain 26 - 27 June 1989

'Iniciativas Empresariales de Navarra', the Business and Innovation Centre (BIC) of the region of Navarre, in Spain, in association with the Department of Industry, Trade and Tourism of the Regional Government of Navarre, and the SPRINT member 'Asesoria Industrial J.M. ZABALA', is organizing a Technology Transfer Forum. It will be held in Pamplona (Navarre-Spain) on 26-27 June 1989.

The purpose of the meeting is to allow those firms that want to consider diversifying into new activities to meet technology transfer agents who have in their portfolio technologies likely to fit their specific needs. Approximately fifty Navarran businessmen will get in touch with technology transfer agents from most Community countries.

Mr. Vicente Parajón Collada, Deputy Director-General of the Directorate-General XIII (Telecommunications, Information Industries and Innovation) of the European Commission, will give a lecture about the SPRINT Programme: achievements and forecasts. Some other lectures about the technological environment of Navarre will be held.



**Iniciativas Empresariales
de Navarra**

Tomamos la Iniciativa.

For further information please contact: ASESORIA INDUSTRIAL J.M. ZABALA, Navas de Tolosa 5-2., E-31002 Pamplona, Tel: (34) 48 22.89.63, Fax: (34) 48 22.88.82.

SPRINT SEMINAR ON ELECTROSTATIC PROBLEMS IN INDUSTRY

Rome, Italy: 14 June 1989

This Seminar is organized under the related SPRINT contract and will be held in conjunction with AT 89, the Annual Meeting of the Italian CNR-Research Group on High Voltages, which is also active in insulating materials studies.

Venue: Università di Roma, Dipartimento Elettrico per l'Energia, via Eudossiana 18, Roma, 14.00 to 18.00

PROGRAMME: General techniques of measurement. Survey of existing and draft IEC and national standards. Electrostatic discharges (ESD) in electronic devices. EMC (Electromagnetic Compatibility) and ESD: complementary aspects. Floorings and ESD. ESD in the pharmaceutical and petrochemical industries. ESD aspects in space technology. Resistivity measurements: special cases.

SPEAKERS: Experts from European countries will illustrate the 'state of the art' in above fields.

AUDIENCE: Participation in the Seminar is open to representatives of industry and to other interested parties.

LANGUAGE: The working language will be Italian, but foreign speakers will contribute in English.

For further information about the Seminar, please contact one of the research centres listed below:

D.I.E.
Università di Genova
Prof. L. Centurioni
via Opera Pia 11A
16145 GENOVA — Italy
tel. +39 10 3564 728
fax. +39 10 3564 700
tx 272399 DIEGE I

Dip. Elettrico per l'Energia
Università 'La Sapienza'
Prof. C. Mazzetti
via Eudossiana 18
00100 ROMA — Italy
tel. +39 6 4755051
fax +39 6 463235



Prof. Centurioni, an electrostatics expert, with his assistants at the University of Genova.

SPRINT SEMINAR ON ELECTROSTATIC PROBLEMS IN INDUSTRY

FONTENAY-AUX-ROSES, FRANCE - 24-25 OCTOBER 1989

This seminar is being organized by the Laboratoire Central des Industries Electriques (LCIE) under the European programme for innovation and technology transfer (SPRINT). Its aim is to help European industry in combating the problems caused by static electricity by creating a greater awareness of the phenomena involved. It will be held in Fontenay-aux-Roses, a southern suburb of Paris, on 24 and 25 October 1989.

The papers will deal with the phenomena behind static electricity, methods of measurement and identification, possible solutions and trends in standardization. There will be sessions on the problems encountered in various industries, e.g. mines and potentially explosive atmospheres, electronics (components and hardware), chemistry, textiles, petroleum.

The official language of the seminar will be French. The papers will be presented by specialists from the LCIE, from various branches of French industry, or from the organizations in the United Kingdom, Spain, Italy and Germany taking part in the SPRINT Programme.

Further information can be obtained from: Ms M. Morange, LCIE, 33, av. du Général Leclerc, F-92260 Fontenay-aux-Roses, Tel.: (33) 1 40.95.60.60, Tlx: 250080 F, Fax: (33) 1 40.95.60.50. or Mr J. Tiscar, Commission of the European Communities, DG XIII/C/1, B4/102, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-4102, Tlx: 2423 / 3446 COMEUR LU, Fax: (352) 4301-4129.

FISCAL ENVIRONMENT OF, AND CORPORATE VEHICLES FOR, VENTURE CAPITAL IN THE EUROPEAN COMMUNITIES

— STUDY SOON AVAILABLE —

The underlying report compares the fiscal environments relevant to venture capital inside and outside the European Communities as of 31 December 1987. It is the update of a similar study which had December 1984 as reference date and which was published in 1985 by the Office for Official Publications of the European Communities under the number EUR 10172. The study, which was funded by the European Communities' SPRINT Programme and carried out by DELOITTE, HASKINS & SELLS, touches on one of the key priorities for the EC's policy for financing of innovation, which is the promotion of venture capital in Europe through fiscal measures and their harmonization across the different Member States.

Further information can be obtained from Mr D. Janssens, Commission of the European Communities, DG XIII/C/1, B4/101, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-4407, Tlx: 2423 / 3446 COMEUR LU, Fax: (352) 4301-4129. Advance copies of the report can be obtained from Mrs S. Dria, Commission of the European Communities, DG XIII/C/1, B4/100, Jean Monnet Building, L-2920 Luxembourg, Tlx: 2423 / 3446 COMEUR LU, Fax: (352) 4301-4129.

— TECHNOLOGY TRANSFER DAY ON MAY 25th 1989 in ORLEANS —



FIST 89 (Forum-Expo Interrégional de la Sous-Traitance — Salon des Techniques et Technologies Nouvelles) will take place in Orleans on 23-26 May 1989. The 25th May will be wholly devoted to technology transfer between firms within the Community.

Further information can be obtained from Chambre Régionale de Commerce et d'Industrie 'Centre', B.P. 109, Zone d'Activité d'Ingré, 6, rue Pierre-et-Marie-Curie, F-45142 Saint-Jean-de-la-Ruelle Cédex, Tel.: (33) 8 38.43.19.90, Tlx: 780274.



The common stand of the SPRINT partners at the FOROTECH

FOROTECH '89 SUCCESS

The SPRINT network between GW Saar, Sagazde Álava S.A., the Scottish Development Agency and Arist (Orleans) was represented with a common stand at the FOROTECH '89 in Bilbao (4-7 April 1989). FOROTECH is held every two years and is the most important fair on new technologies in the North of Spain. The photo shows the common stand of the SPRINT partners.

Further information can be obtained from Mr Laespada, Sagazde Álava S.A., S/Vicente Goikoetxea 6-1º, E-01008 Vitoria-Gasteiz, Tel.: (34) 45 28.23.00, Tlx: 35259 SGZD E.

SPRINT CONFERENCE IN ATHENS ON TECHNOLOGY TRANSFER



ΜΕΤΑΦΟΡΑ ΤΕΧΝΟΛΟΓΙΑΣ ΣΤΗ ΒΙΟΜΗΧΑΝΙΑ

στους τομείς:

ΠΡΟΣΤΑΣΙΑΣ ΠΕΡΙΒΑΛΛΟΝΤΟΣ
ΕΝΕΡΓΕΙΑΣ
ΠΛΗΡΟΦΟΡΙΚΗΣ

The conference was held with the aim of encouraging Greek industry to avail itself of the opportunities for innovation and technology transfer supported by Community programmes such as SPRINT.

A keynote address was given by Mr C. MANIATOPOULOS, Director-General, DG XVII - Energy, who announced the introduction of the THERMIE Programme, which will call for specific projects possibly involving Joint Ventures with EFTA States (see also the article on page 6).

The conference was divided into four main sessions: Technology Transfer under SPRINT, Environmental Protection, Energy and Information Technology.

INFOGROUP 
ΣΥΜΒΟΥΛΟΙ ΕΠΙΧΕΙΡΗΣΕΩΝ Α.Ε.



Με την υποστήριξη της
Επιτροπής των Ευρωπαϊκών
Κοινοτήτων στο πλαίσιο του
προγράμματος SPRINT

Further information can be obtained from INFOGROUP (Athens) or its subsidiary EUROPRISE, 207, av. Louise, B.P. 8, B-1050 Brussels, Tel.: (32) 2 640.07.96 or Mr I. Traill, Commission of the European Communities, DG XIII/C/1, B4/105, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-4532, Tlx: 2423 / 3446 COMEUR LU, Fax: (352) 4301-4129.



TII — THE INNOVATION LINK IN EUROPE

News from TII, the European Association for the Transfer of Technologies and Industrial Information

Programme of TII Events

8-9 June 1989	Group visit to Copenhagen	18-20 Sept. 1989	Group visit to Dublin/Waterford/S.E. Region of Ireland
26-30 June 1989	One-week Intensive Induction Seminar in Technology Transfer and Innovation Advisory Techniques and Methods (for newcomers to the profession), Luxembourg	25-26 Sept. 1989	UDIL group visit (university industrial liaison officers), Edinburgh
		28-30 Sept. 1989	ISPIM Conference , Consulting in Innovation, in conjunction with TVA, EFMD, DABEI, Berlin
30 June 1989	LES/TII Conference , The Management of Technology Transfer, Cambridge	26-30 Oct. 1989	TII Conference 'Enterprise, Innovation and 1992 — Innovation-Support Services in Europe', Nice

TII Secretariat:

3 rue des Capucins, L-1313 Luxembourg, Tel. (352) 46 30 35

EUROPEAN JOINT PROJECTS - HOW DO YOU FIND PARTNERS?

On March 2nd 1989 about 160 people, drawn from a wide spectrum of organisations in Britain, attended a one-day conference on 'European Joint Projects - How do you find partners?', organized by the Institute of European Trade & Industry, a recently created non-profit making organisation. Among the talks given by British and Community officials were those by Dr P. Diwon (DG X) on the Single European Market, by Dr P. Williams on the R&D Clubs run by the UKAEA, Harwell, Dr B.B. Goodman (DG XIII) on SPRINT, Mr M. Roberts on the Department of Trade and Industry Export Initiative and Mrs Monique Poirat (DG XXIII) on Community schemes designed for SMEs. TII activities were described by its Secretary-General, Mr Michel Duhamel.

Further information can be obtained from IETT, Institute of European Trade & Technology, 64, West Smithfield, UK-London EC1A 9DY, Tel.: (44) 1 606.29.30, Fax: (44) 1 606.29.35.

SPRINT SUPPORT FOR SCIENCE PARKS

At the latest meeting of the Ad-hoc Group on Science Parks in Luxembourg, new initiatives and opportunities for Science Parks were discussed in relation to the recently adopted SPRINT-Programme.

The discussions centred on three issues, the first being the need to increase the awareness of decision-makers on the role and contributions of science parks to technological development and growth.

Secondly, it was considered important to increase the flow of information between science parks themselves, possibly taking the form of 'open days' or group visits or exchanges of staff. As another possible pilot experiment the initiation of a light video-conference network between science parks was also mentioned.

Thirdly, the need to provide not only funds but also advice to less favoured regions on how to establish and operate a science park was stressed. It was mentioned that possible answers may be the setting up of specific advisory services of the 'twinning' of old and new parks.

It is expected that the participants will come forward with detailed action plans that give the ideas discussed a more concrete form.

Further information can be obtained from Mr E. Faroult, Commission of the European Communities, DG XIII/C/1, B4/101a, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-4851, Tlx: 2423/3446 COMEUR LU, Fax: (352) 4301-4129.

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
- 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 the Commission of the European Communities, DG XIII/C/1, B4/091, JMO, L-2920 Luxembourg

THE TECHNOLOGY TRANSFER PROCESS: A PILOT STUDY ON THE ROLE OF INTERMEDIARIES

This report (authors: W. Faulkner, J. O'Connor, M. O'Gallagher, M. Thompson) was prepared as part of the SPRINT initiative by the Scottish Enterprise Foundation and the Shannon Development Company. It looked at technology transfer process in SMEs, and in particular the role of intermediaries in this process. It is based on the practical experience of collaboration between the Social Research Centre, NIHE, Limerick, on behalf of Shannon Development Company, Ireland, and the Scottish Enterprise Foundation, Scotland. In concentrating on the role of intermediaries the study is not intended to provide an evaluation of specific individuals or organisations. Rather, it seeks to identify, in broad terms, the ways in which intermediaries might positively influence the technology transfer process in SMEs. The study says that intermediary technology transfer organisations run by a number of regional development agencies can provide expert advice, but the final decision on the technology must come from the companies involved. It makes a number of suggestions for good practice in reaching technology transfer agreements.

The Technology Transfer Process: A Pilot Study on the Role of Intermediaries. Obtainable from the foundation at the University of Stirling, Stirling, Scotland FK9 4LA, Price £ 15.

Under the SPRINT Programme the Commission is promoting the Europeanisation of conferences on new technologies. Here is an overview of some of the forthcoming conferences:

Date	Conference	Venue	Organizer
02-03.05.89	Les Rencontres Internationales des Organismes de Sous-Traitance	Biarritz (F)	Entente Interconsulaire du Bassin de l'Adour (Chambre de commerce de Bayonne, Pau, Tarbes, Landes), Bayonne (F)
08-10.06.89	The application of advanced technology in European medium- & small-scale clothing and footwear production	Limerick (IRL)	2000 Plus BV, Maastricht (NL), Plessey Technology Park, Limerick (IRL)
16.06.89	The spread of new materials & the development of small and medium-scale firms in the European Community	Paris (F)	Bureau d'informations et de prévisions économiques, BIPE, Neuilly s/Seine (F)
19-20.06.89	Introduction and successful managing of new technologies in SMEs in Europe, with reference to Japanese experience	Tilburg (NL)	Tilburg University, Office of International Relations (NL)
22-23.06.89	International conference on the impact of new technology on freight transport in Europe	Lisbon (P)	PTRC Education & Research Services Ltd., London (UK)
22-25.08.89	International Conference on Engineering Design	Harrogate (UK)	Institution of mechanical engineers, London (UK)
25-27.9.89	4th Conference on sensors and their applications	Canterbury (UK)	Dr. K.T.V. Grattan, Dept. of electrical, electronic and information engineering, City University, London (UK)
05-06.10.89	Venture capital and the Greek market: a start-up	Athens (GR)	Katsigiannis & Associates, Athens (GR)
11-14.10.89	European Footwear Technologies Days	Nantes (F)	Centre Technique Cuir, Chaussure, Maroquinerie, Lyon (F)
26-27.10.89	Enterprise, Innovation and 1992: Innovation support services in Europe	Nice (F)	TII, Luxembourg (L)
02-04.11.89	La gestion totale de la qualité, clé de la mutation que les PME européennes doivent réussir pour relever le défi de 1992	Lille (F)	Eurosoft-System SA, Bruxelles (B)
06-07.11.89	The cooperation phenomenon in industry — Prospects for small firms and smaller countries in the EEC	Dublin (IRL)	EOLAS, Dublin (IRL)
27-30.11.89	Application of new technologies to traditional industrial sectors	Bilbao (E)	Parque Tecnológico, Bilbao (E)

Further information can be obtained from: Mr. E. Pérez Carbonell, Commission of the European Communities, DG XIII/C/1, B4/092, Jean Monnet Building, L-2920 Luxembourg, Tel.: (352) 4301-4117, Tlx: 3423 / 3446 COMEUR LU, Fax: (352) 4301-4129.

The Cooperation Phenomenon — Prospects for Small Firms and the Smaller Economies

Sponsored by the Commission of the European Communities under its SPRINT Programme

This conference will examine critically the recent experience of small firms in networking and cooperation - particularly in the smaller economy context - and the regional, national, international and EC policies and programmes aimed at encouraging and enhancing that cooperation. The Conference is intended for international, national and regional decision makers, as well as advisers and researchers who are interested in maximising the benefits for SMEs of the cooperation phenomenon.

For further information please contact Ms Renee Browne, Head - Industrial Education Programme, EOLAS - The Irish Science and Technology Agency, Glasnevin, Dublin 9, Ireland, Tel.: (353) 1 37.01.01 ext. 2327, Fax: (353) 1 37.96.20.

EVCA Programme of events

May	4-6:	FINANCIAL SERVICES '89, Düsseldorf (Info: IC Congresse + 49.21.67.20.57).
May	17:	ASPETTI FISCALI & LEGALI DELLE INNOVAZIONI FINANZIARIE, Milan (Info: IRI: +39.2.89010829).
May	22/26:	1989 SEMINAR ON EUROPEAN TAXES, Leuven (Info: +32.16.28.52.06).
June	1/2:	VENTURE SYMPOSIUM 89, Berlin (Info: EVCA + 32.2.513.74.39).
June	5/6:	STRATEGIC ALLIANCES, London (Info: BSI +44.1.823.8740).
June	9:	TAX, ACCOUNTING & LEGAL ISSUES IN EUROPEAN LMO'S & ACQUISITIONS, London (Info: +44.1.434.1017).