



NEWSLETTER

52

new technologies and innovation policy

LIBRARY

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Editorial:

HUMAN NETWORKS

In November 1983 the Council adopted a three-year *Plan for the transnational development of the supporting infrastructure for innovation and technology transfer* to provide Europe with a better chance of meeting today's many and varied economic challenges by means of an innovation policy coordinated throughout the Community.

One of the pillars of this wide-ranging innovation plan (see Newsletter No 43) is the setting up of 'human networks', the aim of which is to improve the dissemination of information on innovations and new technologies throughout the Community and across national frontiers by increasing contacts between people and institutions engaged in this field in industry, public administration and science.

Extensive networks of this kind have already been set up under the plan and are working efficiently. Here is a survey of the present situation.

Link-ups between advisory services

The greater part of the work and most of the funding available for innovation under the plan are devoted to setting up transnational cooperation schemes between advisory bodies on technology for small and medium-sized enterprises (SMEs) — both private and public. The Commission now supports about 170 such advisory bodies, which act as intermediaries for transnational cooperation between SMEs in their respective catchment areas. A practical example of such a cooperation scheme would be the innovation advisory service of a German Chamber of Commerce and Industry establishing contact with a corresponding body in France with view to preparing the ground for cooperation between SMEs in their respective regions. This cooperation has proved to take many different forms, extending from exchanges of information to actual joint ventures. A report on an evaluation seminar held in October 1985 was published in Newsletter No 50. A further evaluation seminar, attended by representatives of all 170 partners involved will take place in Marseilles on 21 and 22 October 1986.

Alongside these individual partnerships, the 'European Association for Transfer of Technologies, Innovation and Industrial Information' (TII) was founded in 1984 with help of the Commission as a Community-wide umbrella organisation. So far more than 200 advisory bodies have joined it. TII promotes, among other things, the flow of information on new technologies between its members, organises seminars, international conferences, etc., and sets up working parties on topics relating to innovation and technology transfer.

As well as promoting the above mentioned individual cooperation projects and providing institutional support for TII, the Commission provides support for the organisation of secondments or group visits abroad by members of innovation advisory services and technology transfer agencies. Both measures are intended to establish new personal contacts or strengthen existing contacts between these bodies in order to create the mutual confidence necessary for successful transnational cooperation.

Human networks have also proved very useful in a number of other fields. The following are examples.

European cooperation over design

A particularly interesting project is the promotion of transnational cooperation in the field of design, a very important factor for product innovation.

In this connection the Commission supports a transnational exchange of experience, which involves organising conferenc-

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L-2920 Luxembourg
Tel. call (352) 4301 extension 3577

es and other meetings, producing publications, for the attention both of design professionals and SME, and other activities.

The European Venture Capital Association

In order to facilitate innovation financing and to promote transnational syndication between venture capitalists, the Commission supports the European Venture Capital Association (EVCA) whose task is to promote the development of a venture capital sector to provide equity for innovative SMEs. Effective stimulation of transnational syndication has been achieved through the Community-backed *Venture Consort* scheme.

Other actions include a programme of visits to foreign trade fairs by the heads of SMEs, the promotion of transnational cooperation between industrial research associations, and a special programme to promote the transfer of technologies relevant to the rejuvenation of 'mature' industries (initially in the textiles, ceramics and leather goods sectors).

Further information may be obtained from the Commission's Directorate General XIII-A in Luxembourg (Tel. 4301 extension 2918 or 4180 or 3577 or 3351)

II. THE TRANSNATIONAL INNOVATION PLAN FORGES AHEAD

The CIT (Consultative Committee on Innovation and Technology Transfer), which assists the Commission in its implementation of the transnational innovation plan (see editorial) recently held its ninth meeting in Luxembourg. On the agenda figured the review of some of the actions already under way. A series of new actions was also considered.

Among those soon to be launched as a result is a scheme to promote transnational cooperation between *Industrial Research Associations* in the Member States. Such collective research organisations can often play a vital role in product or process innovation and in the dissemination of new technologies in their industrial sectors. This is especially true of sectors with large numbers of SME's, which can rarely afford to have their own R&D departments as larger enterprises do. A call for proposals directed specifically towards Research Associations has therefore already been launched.

Another action was approved to support the introduction of *robotics technology in Ireland* which is thought to be behind in this field. Experts in robotics technology in other Member States will be asked to consult Irish firms (visits, seminars, etc.) and to carry out feasibility studies in selected Irish firms. The CIT also gave a favourable opinion to support the creation of *active information centres in Greece*.

Another interesting initiative is the creation of a working group set up to examine ways of *promoting innovation and technology transfer towards SME's* through the improved use of the possibilities of *the patent system* and of other methods of protecting industrial and intellectual to discuss the general property. A first meeting has already taken place. Concrete proposals for action should be prepared for a next meeting of the working-group on 'Innovation and patents' on November 24./25. in Luxembourg.

III.

**Information, Documentation,
Transfer of Knowledge
'European Information Area'
Strasbourg, 12-14 May 1987**

IDT 87

CALL FOR PAPERS

The gradual establishment of a European trading area and the expanding framework for business activities have, together with ongoing technological developments, caused upheavals

in human relations in large undertakings and organizations. One result has been a further increase in the importance of documentation in information systems.

Capacity for decision making, or for anything else for that matter, increasingly depends on documentation. There is therefore a need to re-examine the role played by documentation itself, as well as that of the persons involved and of human relations in a wider international context.

With the constant flow of new conceptual tools, software and hardware, technology offers faster and faster access to information which is increasingly complex from the organizational point of view.

Thus, in the face of increasingly fierce competition, public and private undertakings alike have been obliged to change their approach to decision-making and rely more and more on external information for this purpose.

This has led, at European level, to new lines of development closely linked to the process of decentralization and devolution, where the issues at stake are totally without precedent.

It is against this constantly changing European background that IDT 87 intends to get seriously to grips with the developments still in store for us.

**Information, Dokumentation,
Transfer von Kenntnissen
IDT 87 „Der Europäische Informationsraum“
Straßburg, 12.-14. Mai 1987**

AUFRUF ZUR EINREICHUNG VON BEITRÄGEN

Die allmähliche Strukturierung des europäischen Wirtschaftsraumes, der gegenwärtige Wandel im Umfeld der unternehmerischen Tätigkeit und der ständige technologische Fortschritt führen zu tiefgreifenden Veränderungen in der Kommunikation innerhalb großer Unternehmen und Organisationen. Die Dokumentation rückt dabei immer mehr in den Mittelpunkt der Informationssysteme.

Die Entscheidungsträger oder — allgemein gesprochen — die Machtzentren hängen in verstärktem Maße von der Dokumentation ab. Aus diesem Grunde ist es erforderlich, die Aufgaben der Dokumentation, die der Personen, die sich damit befassen, und die der Kommunikation in einem erweiterten internationalen Rahmen zu hinterfragen.

Aufgrund ständig neuer Entwicklungen auf dem Gebiet der konzeptionellen Hilfsmittel sowie im Hard- und Softwarebereich verkürzt sich die Zeit, die man für den Zugriff auf eine Information braucht, deren Handhabung sich insgesamt als immer schwieriger erweist.

Die Unternehmen, ob in öffentlicher oder privater Hand, sind einem wachsenden Konkurrenzdruck ausgesetzt und von daher gezwungen, ihre Art der Entscheidungsfindung zu ändern, indem sie immer mehr auf externe Informationen zurückgreifen.

Durch die Zunahme des Informationsaustausches entstehen europaweit neue „Entwicklungsachsen“, was wiederum eng mit dem Prozess der Dezentralisierung und der Gewichtsverlagerung auf die Regionen zusammenhängt. Noch nie zuvor hat es einen Wandel von dieser Tragweite gegeben.

Angesichts dieser Situation in Europa, die sich in ständigem Wandel befindet, versucht IDT 87 eine zukunftsorientierte Analyse der bevorstehenden Veränderungen.

**Information, Documentation,
Transfert des Connaissances
IDT 87 «L'espace européen de l'information»
Strasbourg, 12-14 mars 1987**

APPEL AUX COMMUNICATIONS

La structuration progressive de l'espace européen des échanges, l'évolution actuelle du cadre de l'activité des entreprises, le progrès continu des technologies ont comme conséquence de bouleverser les relations humaines dans les grandes entreprises et organisations. La fonction documentaire ne s'en trouve que davantage au cœur des systèmes d'information.

Les pouvoirs de décision, le pouvoir tout court, en dépendent d'une façon accrue. Cette situation amène à remettre en question la fonction elle-même, celle des personnes qui y participent, et celle des relations humaines dans un cadre international élargi.

Avec l'apparition incessante de nouveaux outils conceptuels, logiciels et matériels, le développement technologique offre en effet des conditions d'accès toujours plus rapides à une information qui se révèle (de plus en plus) plus complexe à organiser.

Soumises à une concurrence encore plus contraignante, les entreprises, tant publiques que privées, sont ainsi amenées à changer leur mode de prise de décision en faisant un appel croissant à des informations externes.

Ce développement des échanges induit à l'échelle européenne de nouveaux axes de développement, étroitement liés au processus de décentralisation et de régionalisation. Les enjeux de ce mouvement n'ont pas de commune mesure avec ceux qui existaient auparavant.

C'est dans ce contexte européen, en constante évolution, qu'IDT 87 aborde les mutations à venir d'une manière résolument prospective.



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F-75007 PARIS

Nom, Name

Prenom, Forname, Vorname

Fonction, Function, Tätigkeit

Organisme, Body, Institution

Adresse, Address, Postanschrift

- Désire proposer une communication et en enverra un résumé d'une page avant le 15. 7. 1986.
Wishes to propose a paper and will send a 1-page typed summary by 15. 7. 1986.
Ich möchte einen Beitrag liefern und schicke eine Zusammenfassung von einer Schreibmaschinenseite bis spätestens 15. 7. 1986.
- Désire recevoir le dossier d'exposant.
Please send exhibitor's file.
Ich bitte um Zusendung der Unterlagen für Aussteller.
- Désire présenter une réalisation dans le cadre de la revue de produits.
I would like to make a contribution to the product review.
Ich möchte einen Beitrag zur Produktshow leisten.

IV. REMINDER

The Commission of the European Communities organizes a European symposium on
THE UTILIZATION OF THE RESULTS OF PUBLIC RESEARCH AND DEVELOPMENT
which will take place from 23 to 25 September 1986 in Luxembourg.

A brochure containing the programme, the registration forms and other useful information on this event is available at the following address:

Commission of the European Communities
Directorate General XIII/A2
Att. Mr. D. NICOLAY — JMO B4/086
L-2920 LUXEMBOURG
Tel. 4301-2946 — Telex: 3423/3446 Comeur Lu

ZUR ERINNERUNG

Die Kommission der Europäischen Gemeinschaften organisiert ein europäisches Symposium über
DIE NUTZUNG DER ERGEBNISSE AUS ÖFFENTLICHER FORSCHUNG UND ENTWICKLUNG
das vom 23. bis 25. September 1986 in Luxemburg stattfinden wird.

Eine Broschüre, in dem das Programm, ein Einschreibeformular sowie sämtliche Informationen enthalten sind, kann bei der folgenden Adresse angefragt werden:

Kommission der Europäischen Gemeinschaften
Generaldirektion XIII/A2
z. Hd. Herrn D. NICOLAY — JMO B4/086
L-2920 LUXEMBOURG
Tel. 4301-2946 — Telex: 3423/3446 Comeur Lu

RAPPEL

La Commission des Communautés européennes organise du 23 au 25 septembre 1986 à Luxembourg un symposium européen sur

L'UTILISATION DES RESULTATS DE LA RECHERCHE ET DU DEVELOPPEMENT PUBLICS OU FINANÇÉS PAR LE SECTEUR PUBLIC

Une brochure contenant le programme, les bulletins d'inscription et toutes autres informations utiles est disponible à l'adresse suivante:

Commission des Communautés européennes
Direction générale XIII/A2
A l'att. de M. D. NICOLAY — JMO B4/086
L-2920 LUXEMBOURG
Tel.: 4301-2946 — Telex: 3423/3446 Comeur Lu

V. ZU NEUEN UFERN?

Dr. H. Burgard, Direktor der Direktion A (Innovation und neue Technologien) der Generaldirektion XIII tritt am 1. 7. 1986 in den vorzeitigen Ruhestand. Herr Burgard, ein Schüler des bekannten deutschen Ökonomeprofessors Herbert Giersch, konzentrierte sein Arbeitsinteresse bereits sehr früh auf die Probleme der europäischen Integration, d. h. insbesondere auf deren wirtschaftlichen Aspekte.

Er begann 1958 seine Tätigkeit bei der Europäischen Gemeinschaft in Brüssel, wo er bis 1964 stellvertretender Sekretär des Währungsausschusses der EG war. Von 1964-68 war er als Gutachter der EG-Kommission für Investitionen der Europäischen Investitionsbank in Griechenland und in der Türkei tätig, was eine nicht immer ungefährliche Aufgabe gewesen sein soll. 1968-73 leitete er die Abteilung „Mittelfristige Wirtschaftspolitik“ bei der GD II in Brüssel, die unter seiner Ägide eine erste in sich geschlossene Weltzahlungsbilanz erstellte. Im selben Zeitabschnitt war er auch Sekretär des EG-Ausschusses für mittelfristige Wirtschaftspolitik. In diesen Jahren war Herr Burgard, der sein Faible für die Wissenschaft nie völlig verbergen konnte, ebenfalls Lehrbeauftragter für Struktur- und Wachstumspolitik am Europainstitut der Universität Saarbrücken.

1973 zum Leiter der Abteilung „Internationale Währungsfragen“ bei der EG-Kommission befördert, entwickelte er — ob-

wohl er dienstlich nicht oder nur wenig mit europäischen Währungsfragen befaßt war — die konzeptionelle Grundlage für das Europäische Währungssystem, dem wohl wichtigsten Meilenstein auf dem Weg einer europäischen Integration in den 70iger Jahren. Für ein gutes Jahr übernahm er dann 1981/82 die geschäftsführende Leitung der Direktion für „Struktur und Entwicklung“ bei der GD II. Mitte 1982 wurde H. Burgard Direktor für den Bereich „Innovationspolitik und neue Technologien“ bei der GD XIII in Luxemburg, eine Funktion, die er bis zu seinem Ausscheiden aus dem Dienst versah. In dieser Zeit war er u. a. für die Durchführung des Plans für die transnationale Entwicklung der unterstützenden Infrastruktur für Innovation und Technologietransfer verantwortlich. In diesem Rahmen vertrat er auch die Kommission als Präsident des BAITT.

Seine Mitarbeiter hoffen, daß Herr Burgard sich auch nach seinem Ausscheiden in Zukunft europäischen Fragen widmen und gelegentlich auch der GD XIII-A mit seinem Sachverstand zur Seite stehen wird.

Man rätselt noch, ob der Ruf der Wissenschaft H. Burgard erneut ereilen wird. Auf jeden Fall wünschen ihm seine Mitarbeiter für seinen weiteren Weg alles Gute.

VI. COMMISSION COMMUNICATION CONCERNING THE NON-NUCLEAR ENERGY RESEARCH AND DEVELOPMENT PROGRAMME

Call for proposals

The Commission of the European Communities is implementing a non-nuclear energy research and development programme for a four-year period starting on 1 January 1985⁽¹⁾.

After a first call for proposals⁽²⁾ in 1985, the Commission publishes this second call for research proposals from persons and undertakings in the Community, interested in concluding cost-sharing R & D contracts exclusively in the domains of subprogrammes:

1. Solar energy
 - Photovoltaic pilot programme II
 - Solar radiation data from satellite images
2. Energy from biomass
 - Ethanol pilot plants (ETHANOL II)
3. Wind energy
 - Development of medium-size wind conversion systems (MECS)
4. Production and utilization of new energy vectors
 - A. Direct liquefaction of coal
 - process improvements
 - development of catalysts
 - properties of coal-derived liquids
 - liquefaction byproducts
 - B. Indirect liquefaction of coal
 - development of catalysts.

The main objectives and the areas and fields of activity which are eligible under this second call for proposals are described in Annexes 1 to 4 of OJ N° C 146 of 13. 6. 86.

The proposed research must be completed before 31 December 1988.

Research proposals may be submitted by any natural or legal person established on the territory of a Member State. The procedure to be followed and the basic principles covering research contracts are summarized in the information note (Annex 5 of OJ N° C 146 of 13. 6. 86.)

Persons and undertakings are requested to submit their proposal as soon as possible and not later than 15 September 1986, the postmark being accepted as the date of dispatch. The Commission reserves the right not to consider proposals submitted after that date.

Only R & D proposals in the fields and areas of activity defined will be taken into account. Proposals concerning demonstration projects will not be considered.

The Commission will give preference to proposals submitted jointly by cooperating bodies located in different Member States. It reserves the right to call for cooperation from bodies proposing research in related fields.

The Commission alone will decide on the action to be taken concerning the proposals, which will be regarded as confidential in order to protect the industrial-property rights and the commercial interests of proposers.

Persons and organizations interested are requested to forward proposals only on standard forms to be obtained from:

Commission of the European Communities,
Directorate-General for Science, Research and Development,
Non-Nuclear Energy R & D Programme,
Subprogramme... (see 1 to 4 above),
rue de la Loi 200
B-1049 Brussels,

or from one of the Press and Information Offices of the Commission of the European Communities.

(1) OJ N° L 83 of 25. 3. 85

(2) OJ N° C 69 of 16. 3. 85

PRESS AND INFORMATION OFFICES OF THE COMMISSION OF THE EUROPEAN COMMUNITIES

DENMARK

Højbrohus
Ostergade 61
Postbox 144
DK-1004 Copenhagen K
Tel. (01) 14 41 40

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Zitelmannstraße 22
D-5300 Bonn
Tel. (02 28) 23 80 41

Kurfürstendamm 102
D-1000 Berlin 31
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Erhardtstraße 27
D-8000 München
Tel. 23 99 29 00

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61, rue des Belles-Feuilles
F-75782 Paris Cedex 16
Tel. (01) 501 58 85

CMCI/Bureau 320
2, rue Henri Barbusse
F-13241 Marseille Cedex 01
Tel. 91 91 46 00

GREECE

2, Vassilissis Sofias
GR-TK 1602, Athens 134
Tel. 724 39 82/724 39 83/
724 39 84

IRELAND

39 Molesworth Street
IRL-Dublin 2
Tel. (01) 71 22 44

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Via Poli, 29
I-00187 Rome
Tel. (06) 678 97 22

Corso Magenta, 61
I-20123 Milan
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à Lapa
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Calle de Serrano 41
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435 15 28

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— England
8 Storey's Gate
UK-London SW1 P3
Tel. (01) 222 81 22

— Northern Ireland
Windsor House
9/15 Bedford Street
UK-Belfast BT2 7EG
Tel. (02 32) 407 08

— Wales
4 Cathedral Road
UK-Cardiff CF1 9SG
Tel. (02 22) 37 16 31

— Scotland
7 Alva Street
UK-Edinburgh EH2 4PH
Tel. (031) 225 20 58

MITTEILUNG DER KOMMISSION ZUM FORSCHUNGS- UND ENTWICKLUNGS- PROGRAMM AUF DEM GEBIET DER NICHTNUKLEAREN ENERGIE

Aufforderung zur Einreichung von Vorschlägen

Die Kommission der Europäischen Gemeinschaften führt ein Forschungs- und Entwicklungsprogramm auf dem Gebiet der nichtnuklearen Energie mit einer Laufzeit von vier Jahren durch, mit Beginn am 1. Januar 1985⁽¹⁾.

Nach der ersten Aufforderung zur Einreichung von Vorschlägen⁽²⁾ im Jahre 1985 bittet die Kommission Personen und Unternehmen aus der Gemeinschaft, die daran interessiert sind, FuE-Verträge auf Kostenteilungsbasis abzuschließen, ein zweites Mal um Einreichung einschlägiger Forschungsvorschläge ausschließlich in den Bereichen der Teilprogramme 1-4:

1. Sonnenenergie
 - Pilotprogramm Photovoltaik II
 - Sonnenstrahlungsdaten von Satellitenbildern
2. Energie aus Biomasse
 - Äthanol Pilotanlagen (ETHANOL II)
3. Windenergie
 - Entwicklung mittelgroßer Windumwandlungsanlagen (MECS)
4. Produktion und Nutzung neuer Energieträger
 - A. Direkte Kohleverflüssigung
 - Verbesserung der Verfahren
 - Entwicklung von Katalysatoren.

(1) ABI Nr. 83 vom 25. 3. 85

(2) ABI Nr. C 69 vom 16. 3. 85

- Eigenschaften der flüssigen Kohlederivate
- Nebenprodukte der Verflüssigung

B. Indirekte Kohleverflüssigung

- Entwicklung von Katalysatoren.

Die Hauptziele, der für diese zweite Aufforderung zur Einreichung von Vorschlägen in Frage kommenden Forschungsgebiete und Tätigkeitsbereiche sind in den Anhängen 1 bis 4 im Abl Nr. C 146 vom 13. 6. 86 beschrieben.

Die Forschungsarbeiten müssen bis zum 31. Dezember 1988 abgeschlossen sein.

Forschungsvorschläge dürfen von jeder natürlichen oder juristischen Person mit Sitz im Hoheitsgebiet eines Mitgliedstaats eingereicht werden. Das Verfahren und die Grundsätze für Forschungsverträge sind im Informationsvermerk (Anhang 5 im ABI Nr. C 146 vom 13. 6. 86) zusammengefaßt.

Die Personen und Unternehmen werden gebeten, ihre Vorschläge so rasch wie möglich, spätestens aber bis zum 15. September 1986, einzureichen; maßgebend ist das Datum des Poststempels. Die Kommission behält sich das Recht vor, nach diesem Datum eingegangene Vorschläge nicht zu berücksichtigen.

Es werden lediglich FuE-Vorschläge auf den unter 1 bis 4 festgelegten Forschungs- und Tätigkeitsbereichen in Betracht ge-

zogen. Vorschläge für Demonstrationsvorhaben werden nicht berücksichtigt.

Die Kommission wird Vorschläge, die von Einrichtungen aus verschiedenen Mitgliedstaaten gemeinsam vorgelegt werden, bevorzugt behandeln. Sie behält sich vor, Antragsteller, die Forschungsarbeiten auf verwandten Gebieten vorzuschlagen, zur Zusammenarbeit aufzufordern.

Die Kommission befindet selbst über die weitere Behandlung der Vorschläge, die aus Gründen des gewerblichen Rechtsschutzes und des kommerziellen Interesses der Antragsteller vertraulich behandelt werden.

Interessierte Personen und Organisationen werden gebeten, ihre Vorschläge nur auf Standardformularen einzureichen, die erhältlich sind bei der

Kommission der Europäischen Gemeinschaften,
Generaldirektion Wissenschaft, Forschung und Entwicklung
FuE-Programm „Nichtnukleare Energie“,
Teilprogramm. . . (siehe 1 bis 4),
Rue de la Loi 200
B-1049 Brüssel

oder bei einem der Presse- und Informationsbüros der Kommission der Europäischen Gemeinschaften.

COMMUNICATION DE LA COMMISSION RELATIVE AU PROGRAMME DE RECHERCHE ET DE DEVELOPPEMENT DANS LE DOMAINE DE L'ENERGIE NON NUCLEAIRE

Appel aux propositions

La Commission des Communautés européennes met en œuvre, à dater du 1^{er} janvier 1985 ⁽¹⁾, un programme de recherche et de développement, d'une durée de quatre ans, dans le domaine de l'énergie non nucléaire.

Après un premier appel aux propositions lancé en 1985 ⁽²⁾, la Commission émet un appel aux propositions de recherche de la part de personnes et d'entreprises de la Communauté intéressées à conclure des contrats de recherche et de développement à frais partagés dans les domaines couverts par les sous-programmes

1. Energie solaire
 - Programme pilote photovoltaïque II
 - Données afférentes aux radiations solaires à partir d'images fournies par satellite
2. Energie de la biomasse
 - Installation pilote éthanol (Ethanol II)
3. Energie éolienne
 - Développement de systèmes de conversion de l'énergie éolienne de moyenne capacité (MECS)
4. Production et utilisation de nouveaux vecteurs énergétiques
 - A. Liquéfaction directe du charbon
 - Amélioration des procédés
 - Mise au point de catalyseurs
 - Propriétés des liquides dérivés du charbon
 - Sous-produits de la liquéfaction
 - B. Liquéfaction indirecte du charbon
 - Mise au point de catalyseurs

Les principaux objectifs de ces sous-programmes, ainsi que les domaines de recherche et les champs d'activité éligibles au titre du présent appel aux propositions sont décrits aux annexes 1 à 4 du J.O. n° C 146 du 13. 6. 86.

L'exécution de la recherche ne doit pas aller au-delà du 31 décembre 1988.

Les propositions de recherche peuvent être présentées par toute personne physique ou morale, établie sur le territoire des Etats membres de la Communauté européenne. La procédure à suivre, ainsi que les principes de base régissant les contrats de recherche sont résumés dans la note d'information (Annexe 5 du J.O. n° C 146 du 13. 6. 86).

Les personnes et organismes concernés sont priés de soumettre leurs propositions le plus rapidement possible et, au plus tard le 15 septembre 1986, le cachet de la poste faisant foi. La Commission se réserve le droit de ne pas prendre en considération des propositions soumises après cette date.

Seules les propositions concernant la recherche et le développement dans les domaines et les champs d'activité définis seront prises en considération. Les propositions relevant de la démonstration sont exclues.

La Commission donnera la priorité aux propositions communes émanant d'organismes de différents Etats membres. Elle se réserve le droit d'inviter à la coopération des organismes proposant des recherches connexes.

La Commission reste seule juge des suites à donner aux propositions qui seront considérées comme confidentielles, afin de protéger les droits de propriété industrielle et les intérêts commerciaux de leurs auteurs.

Les personnes et organismes intéressés sont priés de soumettre leurs propositions uniquement sur les formulaires types pouvant être obtenus auprès de la

Commission des Communautés européennes,
Direction générale de la science, de la recherche et du développement,
Programme recherche et développement énergie non nucléaire,
Sous-programme. . . (voir 1 à 4 ci-avant),
rue de la Loi 200,
B-1049 Bruxelles,

ou auprès de l'un des bureaux de presse et d'information de la Commission des Communautés européennes.

(1) J.O. n° 83 du 25. 3. 85

(2) J.O. n° C 69 du 16. 3. 85

Call for Proposals:

COMMUNITY R&D PROGRAMMES IN THE FIELD OF THE ENVIRONMENT

In June the Council adopted R&D programmes in the field of protection of the environment, climatology and pilot projects on major technological hazards. The programme will cover work carried out as shared-cost contract research, concerted actions, coordination and training activities. The programmes will last for four years and cover 75 million ECU subdivided as follows:

- Protection of the environment 55 million ECU
- Climatology and natural hazards 17 million ECU
- Pilot projects on major technological hazards 3 million ECU.

The protection of the environment project consists of the following subprogrammes:

Scientific content of the programme

- 1) Health effects of pollutants
- 2) Ecological effects of pollutants
- 3) Assessments of chemicals
- 4) Air quality
- 5) Water quality
- 6) Soil quality
- 7) Noise research
- 8) Echo system research
- 9) Waste research
- 10) Reduction of pollution
- 11) Scientific basis of environmental legislation and management including the development of scientific criteria for environmental impact assessment.

Concerted actions

- 1) Air-pollution effects on terrestrial and aquatic ecosystems
- 2) Physico-chemical behaviour of atmospheric pollutants
- 3) Organic micropollutants in the aquatic environment
- 4) Treatment and use of organic sludge and liquid agricultural waste
- 5) Coastal benthic ecology
- 6) Indoor-air quality and its impact on man
- 7) Protection of species
- 8) New technologies and environmental protection
- 9) Compatibility of fibres with the environment and health.

The climatology and natural hazards project consists of the following subprogrammes:

Climatology

- 1) The physical basis of climate
- 2) Climate sensitivity
- 3) Climatic impacts

VII.

Natural hazards

- 1) Causes, mechanisms and impacts of climatological anomalies and extreme or abrupt events, with the aim of reducing human and material losses.
- 2) Seismic risk evaluation

Pilot projects on major technological hazards

- 1) Physical and chemical phenomena and mitigation of consequences of accidents
- 2) Assessment and management of risk.

In a further decision in June the Council adopted a research programme on materials (raw materials and advance materials) which will last over a period of four years from 1 January 1986. The amount estimated as necessary to carry out the programme will be 70 million ECU, including expenditure for a staff of 23.

The project consists of the following subprojects:

Primary raw materials (Minerals)

- 1) Exploration
- 2) Mining technology
- 3) Mineral processing

Secondary raw materials

- 1) Recycling of non-ferrous metals
- 2) Recycling and utilisation of waste

Wood, including cork, as a renewable raw material

- 1) Wood production
- 2) Wood harvest, storage and transport
- 3) Wood as a material
- 4) Mechanical wood processing and use of finished wood products
- 5) Pulp and paper manufacturing and processing and wood chemicals

Advanced Materials (EURAM)

- 1) Metallic materials
- 2) Engineering ceramics
- 3) Composite materials.

The aim of research carried out under the subprogramme shall be to provide the basis for a Community policy for supporting research and development in the advanced materials sector and for coordinating national programmes.

More details are published in the Official Journal of the European Communities L159/31, 14 June 1986.

VIII. BRITE — THE COMMUNITY PROGRAMME OF RESEARCH IN INDUSTRIAL TECHNOLOGIES

The BRITE programme (Basic Research in Industrial Technologies for Europe) aims to stimulate the development of a solid foundation of advanced technologies to support traditional Community industries. More specifically it seeks to promote the development in industrial technologies of a tradition of transnational cooperation between firms, universities and research institutes, by encouraging them to work together on certain particularly promising projects.

The BRITE programme covers 'precompetitive' research, an intermediate stage between fundamental research and development work immediately preceding marketing. A preliminary survey of the industry has enabled a list of themes which cover nine major technological fields: the problems of reliability, wear and deterioration of materials and systems; laser technology and powder metallurgy; joining techniques; new testing methods, including non-destructive testing and computer-aided testing; computer-aided design and manufacturing (CAD/CAM); polymers, composites and other new materials;

membrane science and technology; catalysis and particle technology; new technologies applied to articles made from flexible materials. Because the problems it is currently facing present a good example of the way new technologies can be applied, the sector chosen to benefit primarily from this initiative is the clothing industry (cutting out, handling and assembly techniques, etc..)

The Community financial contribution to each project is up to 50% of the cost. The rest is paid by the firms involved in the project.

After a first call for proposals in 1985 a new one will probably be published in the Official Journal of the European Communities late in 1986 or early in 1987. The most likely final date for submission of proposals is 31 March 1987. For further details contact the CEC in Brussels, Department XII-C-1 (Artslux 3/51), rue de la Loi, 200, B-1049 Brussels.

IX. PUBLICATIONS

Methods for assessing the off-site radiological consequences of nuclear accidents

This report describes the current status of methods for assessing the consequences of nuclear accidents, identifies future research needs and developments, and includes several illustrative examples. It was prepared under the European Communities' radiation protection research programme by the Kernforschungszentrum Karlsruhe and the National Radiological Protection Board.

EUR 10243 EN ISBN 92-825-5951-3

1986, 234 pp. BFr 800 / IR£ 12.90 / UK£ 11.10 / US\$ 16 / ECU 17.94

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

Agriculture water management

Proceedings of a symposium held at Arnhem, 18-21 June 1985
Edited by A. L. M. Van Wijk & J. Wesseling (Arnhem)

Reviews by experts from throughout the European Community, discussions, conclusions and recommendations on agricultural water management research are included, divided into the following topics: drainage and reclamation of soils with low permeability, effects of drainage and/or irrigation on agriculture, installation and maintenance of drainage systems, regional and local water management systems and effects of agriculture on its environment.

EUR 10055 EN ISBN 90-6191-639-9

1986, 332 pp. Hfl 95

Published by A. A. Balkema, P. O. Box 1675, 3000 BR Rotterdam, Netherlands

Technology transfer and licensing opportunities in the energy sector

Centec Business Consultants announce the publication of the proceeding of this conference, held in Copenhagen in November 1985 with the support of the Commission of the European Communities under the scheme for the promotion of European conferences on technology and innovation. More than 45 papers are included, on topics such as trends in licensing, utilisation of R&D results, public and private collaboration, oil, gas, bioenergy and clean technologies. Several papers describe to cover all potential energy saving technologies and the whole of the EC, suggests that these technologies could lead to an additional 530 000 jobs by the year 2000.

EUR 10199 EN ISBN 92-825-5474-0

1985, 107 pp, BFr 350 / IR£ 5.60 / UK£ 4.70 / US\$ 7 / ECU 7.82

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

Radiation Protection. 1985 progress report

Short descriptions of about 500 research projects in the European Communities' radiation protection research programme are given, divided among six topics: radiation dosimetry and its interpretation, behaviour and control of radionuclides in the environment, non-stochastic effects of ionizing radiation, radiation carcinogenesis, genetic effects of ionizing radiation and evaluation of radiation risks and optimisation of protection.

EUR 10452 DE/EN/FR ISBN 92-825-6217-4

1986, 1418 pp, BFr 3 300 / DM 162 / FF 498 / IR£ 53.40 / UK£48.60 / US\$ 72 / ECU 74.64

Published by the Office of Official Publications of the European Communities, L-2985 Luxembourg

Solar radiation data from satellite images

Determination of solar radiation at ground level from images of the Earth transmitted by meteorological satellites

The methods described in this book enable the solar radiation at ground level almost anywhere in the world to be determined quickly and cheaply with an accuracy better than 10%. Images from the European Meteosat are used, but images from the American NOAA satellites are also taken into account. The methods should be particularly valuable in providing data for solar energy developments in countries where good networks for measuring solar radiation do not yet exist.

EUR 10375 ISBN 90-277-2204-8

1986, 107 pp, Dfl 70 / UK£ 19.50 / US\$ 29.95

Published by D. Reidel Publishing Company (Kluwer Academic Publishers Group, P.O. BOX 322, 3300 AH Dordrecht, Holland)

Advanced gasification

Methanol production from wood — results of the EEC pilot programme

Edited by A.A.C.M. Beenackers (University of Groningen) & W. Van Swaay (Twente University of Technology)

Four full-sized pilot projects constructed by four contractors in the Federal Republic of Germany, France, Italy and the United Kingdom under the European Community's R&D programme on energy from biomass, are reported. All proved to be technically viable. A general overview of the same programme is included, together with reports on smaller projects in the same area.

EUR 01407 ISBN 90-277-2212-9

1986, 247 pp, Dfl 110 / UK£ 30.50 / US\$ 48

Published by D. Reidel, Publishing Company (Kluwer Academic Publishers Group, P.O. Box 322, 3300 AH Dordrecht, Holland)

Wind energy

Potential of wind energy in the European Community.

An assessment study

H. Selzer (ERLO-Raumfachtechnik GmbH, Bremen)

Both technical and economic aspects are examined in this study which is based on data supplied by experts from nine EC member states.

EUR 10376 ISBN 90-277-2205-6

1986, 155 pp, Dfl 80 / UK£ 22.25 / US\$ 34

Published by D. Reidel Publishing Company (Kluwer Academic Publishers Group, P.O. Box 322, 3300 AH Dordrecht, Holland)

Employment effects of energy conservation investments in EC countries

O. Hohmeyer, E. Jochem, F. Garnreiter & W. Mannsbart (Frauenhofer-Institut for Systems and Innovation research, Karlsruhe)

The economic impact of six energy conservation measures — insulation of residential buildings, district heating, heat exchangers for heat recovery, large gas heat pumps, biogas plants in agriculture and domestic solar hot water systems — in four EC states (Federal Republic of Germany, Denmark, France and the United Kingdom) is studied in this report commissioned by the Directorate-General for Energy. Generalisation of the results, particular experiences in technology transfer. The 500-page proceedings can be obtained from the following address, price DKr 225 (inclusive of postage and packing):

Centec Business Consultants,
Falkoner Allé 7,
DK-2000 Frederiksberg
Tel. 45-1-87 26 90.

X. Calendar of Conferences

1. **KMU (Association of medium sized enterprises):**
European Conference on innovation and technology in medium sized enterprises
Munich, 23-24 October 1986
Contact person: Frido Flade
Elisabethstr. 34
8 Munich 40,
Tel.: 089-271301
2. **Seminar: Legal informatics in the office**
Brussels, 2 - 6 September 1986
Contact person: Mrs. H. Bauer-Bennet, ULB
Secretariate 'Info-doc' C.P.142
Avenue Franklin-D. Roosevelt, 50
B-1050 Brussels
Tel.: (322) 2357618
3. **EUROPTRONICS**
septembre/octobre 1986, Liège, Mons, Bruxelles et Louvain-la-Neuve
Alain VANDENBORRE
PROMOPTICA
Parc industriel de recherches du Sart-Tilman
B-4900 ANGLEUR
Tél. (041) 676668
Télex 41320 IAL SP
4. **BIOTECHNOLOGY INFORMATION '86**
22/25 September 1986, Brighton
Richard WAKEFORD
European Biotechnology Information Project
9, Kean Street
UK-London WC2 4AB
Tel. (01) 379 6488
Telex 266959
5. **TECHNOLOGY TRANSFER TO SMES FROM UNIVERSITIES AND RESEARCH INSTITUTIONS**
8-10 September 1986, Salford
G. MORTIMER
Salford University Industrial Centre Ltd.
University Road
UK-SALFORD M5 4WT
Tel. (061) 7368921
Telex 665814 SUIC G
6. **COMPUTER AIDED TRADE**
octobre 1986, Paris
Alfredo SARICH
S.R.L.A. Euromatica
96, rue des Deux Eglises
B-1040 BRUXELLES
Tél. (02) 230 6110
Télex 61975 STALAW B
7. **L'INTRODUZIONE DELL'AGRONICA NEL SISTEMA AGRICOLO**
October 1986, Milano
Valentino CARBOGNIN
Istituto di Ricerche «Il Poliedro»
Via Francesco Redi, 18
I-20129 MILANO
Tel. (02) 204 2368
8. **PRODUKTIVITÄT UND DIE ZUKUNFT DER ARBEIT IN EINER ZEIT RASCHER, VOM MARKT GEFORDERTER INNOVATIONEN**
14-16 Oktober 1986, München
Peter SCHUH
R.K.W.
Düsseldorfer Straße 40
Postfach 5867
D-6236 ESCHBORN
Tel. (06169) 495272
Telex 0418362
9. **REGOLAMENTAZIONE E PROTEZIONE DEL SOFTWARE**
13 October 1986, Roma
Giorgio ZARLATTI
GE.SI. OPTIMATIONS S. r. l.
Via M. Cristina 8
I-00196 ROMA
Tel. (06) 3612807
10. **IMPROVING COOPERATION BETWEEN CENTRAL LIBRARIES AND INFORMATION & DOCUMENTATION SERVICES IN ORGANIZATIONS SERVING SMES**
Autumn 1986
Karsten WEIS
TEKNOLOGISK INSTITUT
Postboks 141
DK-2630 TAASTRUP
Tel. (02) 996611
Telex 334 16 TI DK
11. **EXTRUSION TECHNOLOGY IN THE FOOD INDUSTRY**
October 1986, Dublin
Renée BROWNE
IRS — Institute for Industrial Research and Standards
Ballymun Road
IRL-DUBLIN 9
Tel. (01) 370101
Telex 25449
12. **Commission of the European Communities International Symposium SAFETY AND HEALTH IN THE MINING AND QUARRYING INDUSTRIES**
10 and 11 September 1986
Jean Monnet Building, Kirchberg
Luxembourg
organized by Directorates-General V, IX and XIII of the Commission of the European Communities
13. **7TH EUROPEAN PHOTOVOLTAIC SOLAR ENERGY CONFERENCE**
University Sevilla SPAIN
27-31 October 1986
Information can be obtained by Nr. 6 Grassi
Commission of the European Communities
DG XII, Rue de la Loi 200
B-1049 Brussels
Tel. 322/235 68 01
14. **ELECTRONIC PUBLISHING: THE NEW WAY TO COMMUNICATE**
The Commission of the European Communities announces a Symposium on Electronic Publishing to be held in the Hemicycle of the European Centre Luxembourg, 5 to 7 November 1986
For further Information:
MR P. POPPER
I.E.G.I.
13, rue de Bragance
L-1255 LUXEMBURG
Tel. + 352 44 58 11