

# COMMISSION OF THE EUROPEAN COMMUNITIES

COM(81) 437 final

Brussels, 30 November 1981

## Annual report to Council and Parliament

under Article 4 of Council Decision of 30 October 1978 (78/902/EEC)  
adopting common research programmes and programmes for the coordination  
of agricultural research (1979-1983)

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under Article 4 of Council Decision of 30 October 1978 (78/902/EEC) adopting common research programmes and programmes for the coordination of agricultural research (1979-1983).

### Background

The Council of the European Communities meeting in Luxembourg on October, 30th, 1978, adopted a proposal for joint agricultural research programmes and programmes for coordinating agricultural research on specific subjects within the Community for a period of five years starting on January, 1st, 1979, and with a Community's financial contribution of 18.602.000 U.C. for the five years period (1)

Article 4 of this Decision requests the Commission to report to the Council and the European Parliament on the progress.

The present report covers the period 1979/80.

Continuing within the framework of the general aims of the Coordinated Agricultural Research briefly summarised as facilitating the attainment of the objectives of the Common Agricultural Policy and contributing towards its efficiency and effectiveness - the specific objectives of the 1979-83 period were set out in an Annex to the proposal adopted by Council. These objectives are :

#### A. SOCIO-STRUCTURAL OBJECTIVES

1. Programme for the appropriate use of land and rural development
2. Programme on Mediterranean agriculture
3. Programme on agricultural waste and the effluent of intensive stock rearing

(1) Decision 78/902 EEC of 30 October 1978 - O.J. n° L 316/38.

B. ELIMINATION OF BARRIERS ON THE INTRA-COMMUNITY AGRICULTURAL MARKETS

4. Programme on animal pathology.

C. PRODUCTION EFFICIENCY

5. Programme to improve the productivity of Community beef herds  
6. Programmes on integrated and biological pest control  
7. Programme on ways of improving plant resistance to disease  
8. Programme on primary processing of agricultural products  
9. Programme on elm disease

D. ALTERNATIVE PRODUCTS (INCREASE OF MARKET VALUE OF FODDER PRODUCTION)

10. Programme for improved production of vegetable proteins

Summary of Progress during 1979 and 1980.

Of the 10 programmes, four are continuations - with some modifications - from the earlier phase. These concern farm effluent, animal disease, beef productivity, and protein production from crops.

For these it has been a period of completion of projects or of preparation for transfer to national funding (instead of 50:50 funding) in line with the Coordinated Programmes function as a catalyst and not a continuing provider. The Effluent (now Farm Waste) programme is unusual in that it is, in part, being transferred to another Division of the Commission (DG XII).

Aspects of the animal pathology, beef and plant protein programmes may be carried forward into a future phase. A critical evaluation of these has been started - looking at problems that have emerged in the processes of formulating, implementing and terminating programmes - to prepare for the initial planning in 1983 of programmes for the third period of coordinated research due to start in 1984.

As the old programmes have been winding down, the new ones have been winding up. For them, the first year of the new period was largely used for planning and for meetings designed to establish priorities for research. The use of the budget for the 10 programmes was apportioned as follows :

<u>1979</u>	<u>EUA</u>	<u>%</u>
Coordination activities (seminars, workshops, exchanges)	867.600	32

	<u>EUA</u>	<u>%</u>
Common activities (research projects)	..... 1 832 400	68
<b>TOTAL .....</b>	<b>2 705 000</b>	

In 1980, the absence of a Community Budget until July, owing to the conflict between the Council and the European Parliament, created considerable difficulties for the running of the Programme and particularly the implementation of the Common Activities (research projects) of the new programmes. Until a 1980 budget was accepted, operations had to proceed on a monthly budgeting basis (one-twelfth of the 1979 budget). Despite this severe constraint, 90% of the increased 1980 budget was spent. The breakdown was as follows:

<u>1980</u>	<u>EUA</u>	<u>%</u>
Coordinated activities (Seminars, workshops, exchanges)	..... + 967 993	29
Common activities (research projects)	..... 2 332 107	71
	<b>3 300 000</b>	

During the two years the budget has been apportioned to the different categories of programmes as follows:

<u>Programmes</u>	<u>1979</u>	<u>1980</u>
A. Socio-Structural Objectives	1 104 000	1 263 000
B. Elimination of Barriers	300 000	335 000
C. Production Efficiency	781 000	1 077 000
D. Alternative Products	520 000	620 000
<b>TOTALS</b>	<b>2 705 000</b>	<b>3 300 000</b>

The total budget for coordinated agricultural research within the Community remains extremely small (approximately 1 % of the Commission's expenditure on research and development). Despite this and the particular difficulties in 1980 mentioned above, considerable progress has been made in improving communications between scientists, in the more effective use of research-resources through a cooperative approach, and in the pursuit of research programmes which have important significance to the Community as an entity.

Highlights of the 10 programmes

1. Land Use and Rural Development.

This programme differs from most of the others in that it has a strong socio-economic component. It is therefore necessarily a complex programme that has required a lot of discussion and planning but has now been rationalised within three main themes :

- Land resource evaluation
- Land resource development and conservation
- Integrated rural development

A seminar held at Wexford in the Republic of Ireland at the end of 1978 highlighted the need for a soil map as a basic requirement leading to a meaningful agro-ecological map of Europe. Such a map covering all Member States plus Greece, Portugal and Spain is now in an advanced stage. A draft will be ready in 1981 and it is planned that the final map (scale 1:1m) will go to the printers in 1982. The preparation of a forage map is now under discussion and other subjects for mapping which may follow are forestry and major agricultural crops such as cereals.

Land Resource Evaluation within the Community is hampered by the varying methods of land assessment currently employed in different Member States. Therefore, five methodology projects are in progress, and workshops have been arranged for the purpose of making recommendations on a uniform land evaluation methodology and the need for computerised land use data.

The Land Resource Development and Conservation part of the programme has eight research projects covering multiple land use, drainage and reclamation, and soil degradation. A major seminar on soil degradation at Wageningen, Netherlands, in October 1980 established priority aspects for research at Community level.

The 1979-80 period has been a preparatory one with regard to Integrated Rural Development, but major emphasis to this part of the programme

will be given in 1981-83. Case studies are to be made by multi-disciplinary teams of experts in projects which give a representative geographical spread of the more disadvantaged areas of the Community ; these studies will give considerable weight to human aspects.

## 2. Mediterranean Agriculture

Because the Agrimed programme concerns a specific area rather than a trans-Community subject and because - like the Land Use programme - it is concerned with socio-economic difficulties in a disadvantaged area as well as scientific research, it has had its own peculiar problems of planning and organisation. However, although still somewhat diverse in subject matter, it has now emerged with clear cut objectives and this in itself is a significant achievement in the time taken.

Two major parts of the programme concern the integration of sheep (mainly for milk production) with forestry and the improvement of field crops (cereals, forages and oil/protein crops) in the region. There are particular problems related to the effective use of nitrogenous fertiliser in the context of the sequence of crops commonly used in the Mediterranean area, so this has been selected as a project subject. Forage seed production is also being given attention.

Good collaboration among different laboratories in the Member States has been developed as requests problems posed by the new regulation on the utilization of concentrated residues from wine grapes.

Fruitful collaboration is being established among 26 Institutes in the Community to standardize the drop irrigation of fruit trees with a view to saving water and energy.

Other subjects being covered by the Agrimed programmes relate to oriental tobacco cultivated in Southern Italy (an important meeting held at Scafati and Lecce had permitted to scientists and growers to discuss the main problems in productivity improvement) and to Cypress disease and pear fire blight.

## 3. Agricultural Waste and the Effluent from Intensive Livestock Systems

What had been a programme on effluent from livestock - concerned with the efficient use of nutrients for crop production as well as environmental aspects - broadened in 1979-80 to include some other farm waste materials

(such as straw) and food industry wastes (such as residues from factory processing of olives and potatoes).

At this stage, some over-lapping began to occur between this programme and the R & D programme in the field of recycling of urban, industrial and agricultural waste (secondary raw materials), managed by the Directorate-General for Science, Research and Development. It was therefore decided that from January 1981 onwards on livestock effluents would be discontinued, with the exception of research on anaerobic digestion, the latter, with vegetable wastes, to be transferred to the waste recycling programme.

The remaining portion of the budget is being made available for a new programme on animal welfare (see p. 11 ).

The achievements of the programme in respect of animal wastes were discussed at a seminar in Germany in October 1979 and the proceedings have been published under the title "Effluents from Livestock" (EUR 6633).

The results of a study done under the programme in the Netherlands have been published by the Commission under the title "The spreading of animal excrement on utilized agricultural areas of the Community." A workshop is planned for Spring 1981 to discuss a practical guide for farmers which is being produced for the Community by workers in the Netherlands, drawing upon the published findings of the effluents programme.

In addition to work on the techniques of spreading effluents and the value of nutrients in them, the programme has contributed scientific findings to the debate on the build up of copper in soils. This relates mainly to excreta from pigs fed copper additives and to the intensive use of copper fungicides on crops, notably Bordeaux Mixture on vines. As the result of evidence discussed at a meeting arranged by the Programme at Bordeaux in October 1980 the implementation of a Commission Directive reducing the permissible level of copper in pig feeds has been postponed until November 1981.

#### • Animal Pathology

The Animal Pathology Programme continues to be a very important section of the overall Programme of Coordinated Agricultural Research. Of the four topics now included, Bovine Leukosis and African Swine Fever continued from the earlier period and two others are new. These latter are concerned with the protection

of young animals from perinatal diseases and with communicable diseases (from animal to animal and from animals to man through the storage, handling, transport and land-spreading of manure).

The common (research) programme on bovine leukosis was brought to an end in 1979 having achieved the objective of a simple standardised test for early diagnosis. In March 1980 a training course was held in Copenhagen on diagnosis using the ELISA Test. The bovine leukosis programme has achieved excellent results and much knowledge has been acquired, but eradication remains a problem. In order to evaluate the different proposals for eradication, better diagnostic methods are still needed and it is considered important that scientists working in this area should consider to meet at seminars and workshops to discuss their results.

Eradication is also the aim of the African Swine Fever work which is largely concentrated in Spain at the CEC's reference centre in Madrid and in Portugal at a laboratory in Lisbon. During 1980 three experts visited the infected area of Sardinia ; a training course on diagnostic techniques was held in Madrid ; and there was a workshop to discuss the methodology of diagnosis and the spread of the disease by carriers.

Research projects into perinatal diseases of young animals started in late 1980. A seminar on communicable diseases of animals and man via effluents was held in Hanover in November. It is planned that the common programme should run during 1982 and 1983 and should concentrate on Campylobacter and Listeriosis, with special attention to a modelling approach.

##### 5. Improving the Productivity of Beef Herds

In this second phase of the beef programme, the scale of contracts has been cut down and emphasis has been on giving funding to help finish promising work. All contracts end in 1980. There have been four working groups concerned with genetics, nutrition and management, meat and carcass quality, and physiology of reproduction.

Subjects of seminars have included the standardisation of research methods of feeding stuffs analyses, and beef from cull cows. Result of research

into the early calving of heifers and the use of these once-bred animals for beef have shown that there need be no technical difficulties but, owing to prejudice, the trade continues to pay less for a bred heifer and some member states have legislation which effectively prevents the use of the technique.

One of the more interesting meat research projects demonstrates well the advantage of a Community-based programme. Eight Member States cooperated in an eating quality test which was coordinated by the Meat Research Institute in the U.K.

An important objective of this work is to achieve a standard method of testing and substantial progress has been made in this direction. The programme is also working towards a standard methodology for evaluating bacteriological quality of meat.

#### 6. Integrated and Biological Pest Control

The overall aim is to develop methods of effective crop pest control which minimise the use of chemicals, thus avoiding risks to human health and the environment and reducing growers' costs. The programme is concentrating on fruit, vegetables and cereals.

With fruit, work on integrated control is already well advanced in Member States so the emphasis is on coordination and on solution of specific problems such as the production of virus-based pesticides and a reduction in the use of chemicals in olive and citrus orchards.

With vegetables, less information is available on integrated systems. Cabbage and carrots have been selected for particular studies on the use of viruses as pesticides and on the predictability of pests' invasions.

With cereals, the concept of integrated control is at an early stage. The programme is concentrating on research which should lead to a reduction in the use of fungicides and also add to present knowledge of cereal aphids so that population dynamics can be better understood and invasions predicted.

The practical use of biological and integrated pest control is dependent upon the availability of biopesticides. Two workshops organised by the programme in 1979 dealt with testing and registration of biopesticides and resulted in a document which currently serves as

the basis for Community legislation in this field.

7. Improving Plant Resistance (and gene banks)

This programme has two distinct objectives :

- the achievement of long-lasting resistance to disease through plant breeding ;
- more effective use of gene banks through improved coordination and standardisation of procedures and descriptions.

To date a main emphasis has been placed on drawing up descriptor lists for a number of selected crops. The working committee, with representatives from Member States, has agreed on a system for descriptors.

The work on lists for cereals, grasses, legumes and strawberries is now in an advanced stage ; a small amount of work has been done with potatoes.

A common activity involving the collection of plant material of brassicae, winter barley and grasses (within the Community only) is about to start.

As the result of a seminar on documentation and information for gene banks held at Braunschweig, Germany, and a subsequent meeting at the Germplasm Institute in Bari, Italy, the Commission was asked to assist in resolving problems of communication of data between existing gene banks which use different data processing systems. It was also resolved to try to avoid such problems in the future by advising during the planning stage of new gene bank projects in the Community.

In 1979, it was decided to select winter barley to be evaluated for disease resistance. Nine institutes are participating. The first year's trial (1979-80) has been completed and experts met in December to discuss results. Seeds have now been sown for a second year's trial.

With this programme the Commission take part in the FAO/UNDP European Cooperative Programme for the Conservation and Exchange of Crop Genetic Resources, in which actually 20 European States are implied, and has a close coordination with other international organisations including the Northern Genes Bank.

8. Agro-food (production techniques and food quality)

This has been a difficult programme in respect of defining objectives, bearing in mind the need to have a consumer orientation while retaining an agricultural focus. Therefore, 1979-80 has been taken up largely by meetings for discussion and planning.

It has been decided to concentrate initially on tomatoes, apples and chicken (for meat), looking at the production factors which may affect quality as understood by the consumer. In the case of crops these would be such factors as fertilisers, pesticides and bred varieties. In the case of chicken, intensive (cage) and semi-intensive (on-floor) systems will be compared and also the nutrition of the birds.

A basic difficulty will be to define quality. To this end, chemical criteria will be used for objective evaluation and tasting panels will be brought in for subjective evaluation. 13 research contracts have been signed to develop this programme.

9. Dutch Elm Disease

Coordinated and research activities into elm disease are concerned with the three aspects :

- the beetle which transmits the disease,
- the fungus disease itself, and
- selection of resistant trees.

Research based on the use of pheromones is underway in several Member States. Another project is investigating the volatile gasses in living wood to see if there is a relationship between these and the resistance of certain trees to beetle attack or to development of the fungus following beetle entry.

A study of origins of the disease. This is involving liaison not only between experts within the Community but also forestry people in America, eastern Europe and parts of Asia.

The Dutch Elm Disease has some connections with the Oak Wilt disease. This, too, is a fungal disease but in the USA it is spread mainly at root level with very little part being played by a beetle vector. It is feared that this might not be the case should it be introduced to Europe, in which case it could be much more serious on this side of the Atlantic. New common research (also involving American workers) will aim to give a scientific base for possible modifications of the phytopathological Community Directive.

#### 10. Improving the Production of Plant Proteins

It is considered important that the Community itself should produce a higher proportion of its requirement of vegetable proteins (mainly for animal feed). Therefore, the plant protein production programme was continued from this second period, but with some changes in emphasis. Higher priority is being given to work on grain legumes while support for oil seed rape is taking the form of coordination activities (meetings) only. Common research on grasses and forage legumes is continuing.

Among the particularly useful workshops that have been organised was one in Norwich, England, on Rhizobium ; this brought together specialists in the different aspects of the subject. Another was on field beans (Vicia faba) in Wageningen, Netherlands. A meeting on cereal proteins planned for 1980 was postponed until 1981.

As regards the common (research) activities, there were administrative difficulties which resulted in contracts not being signed until late 1979, thus delaying the start of research projects for nearly a year. Now contractants are concerned that funds budgetted for 1981 will be insufficient to carry the projects through.

#### New Directions

Recognising that Animal Welfare is a matter for Community concern and one on which several Member States now place great importance, the Commission has already taken steps to provide evidence (based on scientific research) as support material for the drafting of Community legislation on the subject. The work has evolved out of existing programmes and is being made possible by re-orientation and adjustment of priorities.

A small expert group of scientists representing Member States met in Brussels in September and again in December, 1979, to decide priorities. It was agreed that poultry welfare, especially that of laying hens in cages, was of immediate importance. Other major areas of relevance to the Community were identified as : pigs in cages ; veal calves (use of anabolic agents) ; transportation of farm animals ; slaughter procedures ; and welfare of other farm animals (e.g. cattle)

The CEC invited a multi-disciplinary group of scientists, veterinarians, welfarists, consumers, legislators, industrialists, producers and other representatives of Member States to a forum on poultry welfare in February 1980 for a frank and realistic exchange of views. This meeting demonstrated the Commission's concern to base any legislation on substantial factual evidence and all-round advice.

Scientists were invited to a seminar on "The Interaction of the laying hen and its environment at which technical issues were reviewed and areas for further research identified. Since then a poultry expert sub-group has worked out detailed proposals for seminars and research activities for 1981-83. The group is assisting the CEC with the technical section of a report to the Council on laying hens in cages.

Other seminars in 1980 covered "Dark cutting in Beef" (relevant to the welfare group because it is caused when the animal is under stress before slaughter) and "Pig Welfare" (pigs in cages, meat quality). There has already been some research into "dark cutting" under the beef programme and meetings on veal calf welfare, transportation and slaughter, and disturbed behaviour are planned for 1981.

A number of other new directions or subjects evolving from existing programmes are under consideration or in an early planning stage. In addition to those mentioned in their context above, they include research into certain diseases of farmed fish.

It is envisaged that the Coordinated Agricultural Research Programme, in the next period starting in 1984, may be restructured in order to group activities which are closely related, introduce a greater degree of flexibility and take into consideration the problems related to energy savings and energy production in agriculture.

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PUBLICATIONS

of proceedings of seminars and workshops organized in the framework of the agricultural research programme : year 1979

DATE	TITLE	PLACE OF MEETING	Proceedings published under No
June 79	Use of computer in greenhouses	Wageningen (NL)	Acta Horticultural 106
June 79	EEC Seminar on Seed Legumes	Cambridge (UK)	EUR 6631
October 79	Growth optimization through microclimatic control.	Avignon (F)	Acta Horticultural 107
October 79	Effluents from Livestock	Oldenburg (D)	EUR 6633
October 79	Reference Jointing and Tissue Separation in Beef Carcasses	Caen (F)	EUR 6878
October 79	Rural Environment related to man	Bayreuth (D)	EUR 6876
October 79	The influence of soil types on the movement of water and salts after local irrigation. The efficiency of different methods of applying water by local irrigation.	Bologna (I)	EUR 6923
November 79	Energy and Protein feeding standards applied to the rearing and finishing in beef cattle	Theix (F)	EUR 6812
November 79	Cypress disease	Firenze (I)	EUR 6925
November 79	Workshop on Bovine Leucosis	Weybridge (UK)	EUR 6897
Total : 10 Publications in 1979			

year 1980

Date	Title	Place of meeting	Proceedings published under N°
February 80	Seminar; Epidemiology and control of nematodiosis in cattle	COPENHAGEN (DK)	EUR 6901
March 80	Symposium: Interaction of the laying hen and its Environment	LUXEMBOURG	EUR 6874
April 80	Seminar : "L'influence de l'irrigation localisée sur la morphologie et la physiologie des systèmes racinaires"	NAPOLI (I)	
May 80	Seminar : "Methodologie des systèmes de culture"	TOULOUSE (F)	
May 80	Seminar : "Grandes cultures - productions (céréales, oléo-protéagineux, fourrages)	ROME (I)	
May 80	EEC Workshop on nitrogen losses and surface run-off	WEXFORD (Irl.)	EUR 6898
May 80	Seminar; The Methodology of feedstuffs Analyses	LELYSTAD (NL)	-
June 80	Scientific workshop : Diagnostic techniques for enteropathogenic agents associated with neonatal diarrhoea in calves and pigs.	LELYSTAD (NL)	
June 80	Seminar : Double muscling in cattle	CARMAUX (F)	EUR 6896
June 80	Seminar on "Phosphorus in Sewage Sludge and animal waste slurries" (DG VI-DG XII)	HAREN (NL)	
June 80	Seminar on reproductive physiology yield and idiotype in grain legumes. Field bean trials over a period of 4 years.	WAGENINGEN (NL)	EUR 6895
July 80	Seminar on the production and utilisation of protein in oilseed crops	BRAUNSCHWEIG (D)	EUR 6894
September 80	Symposium "More profitable use of energy in protected cultivation"	DUBLIN (Irl)	
September 80	Seminar "Protection of the young animal - Mucosal Immunity"	BRISTOL (UK)	
October 80	Seminar "The problem of dark cutting in beef"	BRUXELLES (B)	
October 80	Workshop on problems encountered with copper (DG VI-DG XII)	BORDEAUX (F)	

year 1980

Date	Title	Place of meeting	Proceedings published under Nº
October 80	Seminar "Elm bark beetle"	FREIBOURG (D)	
October 80	Seminar on Evaluation of European Soil Degradation Problems	WAGENINGEN (NL)	
October 80	In step in Europe Booklet describing the setting up and general aims of the 1st programmes (1975-1978)		EUR 6720
November 80	Seminar : "Standardisation des méthodologies biotechniques"	SAN JULIANO (Corsica) SINISCOLA (Sardinia) (I)	
November 80	Scientific Workshop : Diseases communicable from animal to animal and to man via effluents	HANNOVER (D)	
November 80	4th International Symposium "Bovine Leukosis"	BOLOGNA (I)	
November 80	Seminar; Pig Welfare	BRUXELLES (B)	
November 80	Meeting on forecasting pests and diseases as a means of avoiding unnecessary application of pesticides in cereals	ROTHAMSTED (UK)	
December 80	Seminar : Agrimed ovins : Croisement industriel avec les races locales méditerranéennes	SARAGOSSA (SP)	
December 80	Scientific workshop on the ELISA test for African Swine Fever Diagnosis	LISBON (P)	
December 80	Seminar : The cull cow as a beef producer	ROME (I)	
December 80	Seminar : Descriptors and descriptor states in cereals	BRAUNSCHWEIG (D)	

Programme of meetings in 1979

MARCH

Programme	Date	Number of	Place	Title	Local organizer	COST (EUR)
LAND USE	1	14	Brussels	Expert Group : Land resource evaluation	J. GILLOT	7500
	6	12	Brussels	Expert Group : Disavantaged areas	J. GILLOT	6000
	8	16	Brussels	Expert Group: Soil degradation	J. GILLOT	8000
BIOLOGICAL CONTROL	20-21	11	Paris	Expert Group : Lutte Intégrée en culture de Brassica	G. MATTHYS	4000
LAND USE	22-23	16	Brussels	Expert Group : Rural environment related to man & Programme Committee	J. GILLOT	7500
DUTCH ELM DISEASE	26-29	17	Wageningen	Dutch Elm Disease : fungus and host	H. BURDEKIN	60000

Programme of meetings in 1979

APRIL

Programme	Date	Number of	Place	Title	Local organizer	COST (EUR)
DUTCH ELM DISEASE	2-3	15	Brighton	Expert Group : Entomologists	H. Burdekin	2500
BIOLOGICAL CONTROL	19-20	9	Firenze	Expert Group : Lutte intégrée en culture R. Zocchi d'oliviers et d'agrumes		1250
PLANT PROTEIN	24-25	12	Brussels	Programme Committee	A. Prendergast	7500
AGRIMED	24-25	5	Brussels	Expert Group : Feu bactérien du poirier R. Troisgros		1000

Programme of meetings in 1979

MAY

Programme	Date	Number of	Place	Title	Local organizer	Cost (EUR)
AGRIMED	3	12	Brussels	Programme Committee	R. TROISSGROS	2000
BIOLOGICAL CONTROL	3-4	11	Wageningen	Expert Group : Lutte intégrée en cultures de pommières	P. GRUYSS	1750
AGRIMED	14-16	15	Montpellier	Séminaire : Productions ovines + Expert group	M. THERIEZ	13.250
BIOLOGICAL CONTROL	15-16	14	Gembloux	Expert Group : Lutte intégrée en cultures de céréales	J. BERNARD	2750
	18	9	Brussels	Expert Group : Lutte intégrée en cultures de carottes	J. GILLOT	1750
GENE BANK	22-23	16	Bari	Programme Committee	E. PORCEDDU	6250
AGRO-FOOD	29-30	9	Brussels	Expert Group : Food intake survey	J. DEHANDTSCHUTTER	2250
	31	11	Brussels	Expert Group : Losses	J. DEHANDTSCHUTTER	3000

Programme of meetings in 1979

JUNE

Programme	Date	Number of	Place	Title	Local organizer	COST (EUR)
ANIMAL PATHOLOGY	1	9	Brussels	Expert Group : Bovine Leukosis	J. CONNELL	1750
AGRIMED	6	5	Brussels	Expert Group : Feu bactérien du poirier	R. TROISGROS	1000
BIOLOGICAL CONTROL	6-7	13	Firenze	Programme Committee	R. ZOCCHI	5500
ANIMAL PATHOLOGY	11	7	Brussels	Expert Group : Communicable disease	J. CONNELL	1250
	12	11	Brussels	Expert Group : African Swine Fever	J. CONNELL	3000
AGRIMED	12	10	Brussels	Expert Group : Tabacs orientaux	R. TROISGROS	2500
LAND USE	12-14	12	Brussels	Programme Committee	A. PRENDERGAST	3250
ANIMAL PATHOLOGY	13	14	Brussels	Exp. Group : Protection of the young animal	J. CONNELL	2500
	18	10	Brussels	Programme Committee	J. CONNELL	2100
AGRIMED	19-22	13	Wageningen	Seminar : Utilisation des ordinateurs dans le contrôle du climat sous serres	H. VAN DER BORG	3250
LAND USE	20	17	Gent ;	Exp. Gr. : Réalisation de la carte pédologique européenne	Prof. TAVERNIER	2500
BEEF PRODUCTION	26-27	20	Brussels	Exp. Gr. Genetics, nutrition and management + European Association for Animal Production	J. CONNELL	5000

Programme of meetings in 1979

JUNE

20

Programme	Date	Number of	Place	Title	Local organizer	COST (EUR)
Plant Protein	26-29	34	Cambridge	Programme Committee + Seminar : Seed legumes	Prof. COCKBAIN	20500
Agrimed	26-27	8	Brussels	Exp.Gr. Grandes cultures	R. TROISGROS	2500

Programme of meetings in 1979

JULY

Programme	Date	Number of	Place	Title	Local organizer	COST (EUR)
<b>Animal Pathology</b>	4-5	12	Madrid	African Swine Fever Workshop	C. SANCHEZ BOTIJA	2000
<b>Agrimed</b>	10-11	10	Brussels	Exp.Gr. Irrigation Localisée	R. TROISGROS	2000
	12	10	Brussels	Exp. Gr. Production ovine	R. TROISGROS	2500
	16-21	9	East Malling	Stage : Feu bactérien du poirier	Prof. POLLEZ	3500
	25	12	Brussels	Exp.Gr. Maladie du cyprès	R. TROISGROS	3000
<b>Beef Production</b>	30	10	Paris	Exp.Gr.: Eating Quality of Beef	R. BOCCARD	2000

Programme of meetings in 1979

SEPTEMBER

Programme	Date	Number of	Place	Title	Local organizer	Cost (EUR)
Beef Production	4	7	Brussels	Exp.Gr. Physiology of reproduction	J. CONNELL	1500
Animal Welfare	5	6	Brussels	Expert group	J. CONNELL	Poste 2500
Beef Production	6	9	Brussels	Expert group Carcass and meat quality	J. CONNELL	2000
	24-25	15	Brussels	Programme Committee	J. CONNELL	4500

Programme of meetings in 1979

OCTOBER

Programme	Date	Number of	Place	Title	Local organizer	COST (EUR)
Agrimed	1-4	27	Avignon	Seminar : Optimisation de la croissance des Plantes sous serres + Exp.gr. Economie d'énergie en culture protégée	Prof. GUENNELON	16000
Plant Protein	2-4	23	Oxford	Workshop : Production of grass and grass/legumes awards	Prof. MORRISON	8500
Effluents	2-5	40	Oldenburg	Exp.Gr.Effluents from Livestocks	H. VETTER	17750
Land Use	10	15	Brussels	Exp.Gr. Soil degradation	A. PRENDERGAST	3250
Beef Production	15-18	38	Villers-Bocage	Seminar : E.C. reference beef carcass	B. DUMONT	16000
Gene Bank	18-19	12	Brussels	Programme Committee	J. DEHANDTSCHUTTER	3000
Land Use	22-26	41	Bayreuth	Seminar : Selected socio-economic aspects of Land utilization + Programme Committee + Exp. Gr. Disavantaged areas and rural environment related to man	Prof. HUSEMEYER	24500
Plant Protein	29-30	10	Risø	Exp.Gr. Cereal proteins	Prof. SANDFAER	7000

Programme of meetings in 1979

NOVEMBER

24

Programme	Date	Number of	Place	Title	Local organizer	Cost (EUR)
Animal Pathology	5-6	12	Brussels	Exp.Gr. African Swine Fever	J. CONNELL	3500
Biological Control	6	13	Brussels	Programme Committee	J. GILLOT	2500
Agrimed	6-10	20	Bologne	Seminar : Irrigation localisée + Expert group	Prof. LORENZETTI	14750
Beef Production	13-16	40	Theix	Seminar : Energy and protein feeding standards for beef cattle	C. BERANGER	19750
Biological control	15-16	9	Paris	Workshop : Innocuité des pesticides biologiques.	B. HURPIN	2500
	21	9	Wageningen	Workshop : Production et application des biopesticides à base virale	P. GRUYSS	1500
Beef Production	22-23	15	Zeist	Exp.Gr. Proposal for an European Community Hormone Center for agricultural experiments	W. SYBESMA	2750
Agrimed	23-24	30	Firenze	Seminar : Maladie du Cypress	V. GRASSO	8750
	25-27	9	Scafati-Partici	Exp.Gr. Tabacs orientaux	E. MARCELLI L. POSTIGLIONE	7200
Animal Pathology	27	14	Brussels	Exp.Gr. Protection of the young animal	J. CONNELL	2500
	28-30	24	Weybridge	Workshop : Bovine Leukosis	L. MARKSON	12500
Plant Protein	28-29	28	Dijon	Workshop : Lupins	J. PICARD	7250

Programme of meetings in 1979

DECEMBER

Programme	Date	Number of	Place	Title	Local organizer	COST (EUR)
Plant Protein	5	5	Brussels	Exp.Gr. Production de semences de trèfles besoins futurs de recherche	A. PRENDERGAST	1000
Animal Pathology	5	10	Brussels	Programme Committee	J. CONNELL	3750
Agrimed	5-6	17	Brussels	Exp.Gr. : Systèmes de culture	R. TROISGROS	2000
Plant Protein	6	4	Brussels	Exp.Gr. : Cycle de l'azote dans les pâturages	A. PRENDERGAST	1000
Agrimed	7	16	Brussels	Programme Committee	R. TROISGROS	3500
Plant Protein	11	13	Brussels	Programme Committee	A. PRENDERGAST	3000
Land Use	14	15	Brussels	Exp.Gr. Land resource evaluation	A. PRENDERGAST	3000
Animal Welfare	18	15	Brussels	Exp.Gr. Framework for CEC action on animal Welfare	J. CONNELL	Poste 2500
Effluents	18	10	Brussels	Programme Committee	J. DEHANDSCHUTTER	2500

25

## Echanges de chercheurs : Utilisation des sols - 1979

26

Date	Destination	Lieu de provenance	Noms	Coût
9 mai	WAGENINGEN	MAFF, Reading Rotterdam Bonn Bonn Dublin,	D. FITCH Dr HAANS Mr LAEPPEL Dr HEIDE A. COLE	1250
17 mai	WAGENINGEN	MAFF, Reading Dublin Bonn	D. FITCH A. COLE Dr HEIDE	750
29 mai	BRUXELLES	Versailles Versailles Bonn Dublin Dublin Dulham	DEFFONTAINES BRUGERE LAEPPEL CONWAY A. COLE J. ATKINSON	1500
24-25 juillet	BRUXELLES	Dublin	A. COLE	500

Échanges de chercheurs : AGRIMED 1979

27

Date	Destination	Lieu de provenance	Noms	Coût
3-6 septembre	PERUGIA	BRAUNSCHWEIG	Dr PAUL	1000
	STUTTGART	WANTAGE	Dr CANNELL	500
10-14 septembre	DAX	MAIDSTONE HEIKENDORF-KITZBERG	Dr BILLING Prof. ZELLER	1000
16-21 septembre	EDINBURGH	THEIX	M. THERIEZ	750
8-15 décembre				

Echanges de chercheurs : Effluents 1979

28

Date	Destination	Lieu de provenance	Noms	Coût
23-24 mars	OLDENBURG	Arnhem	J. VOORBURG	500
3 jours en juin	LOUVAIN LA NEUVE WAGENINGEN NEWCASTLE	Wexford	TUNNEY HERLIHY	2000
2 jours en septembre	GEMBLoux COPENHAGUE	Dijon	G. CATROUX	1000
10-11 décembre	MEXFORD	Arnhem	J. VOORBURG	500

Echanges de chercheurs : Pathologie animale 1979

29

Date	Destination	Lieu de provenance	Noms	Coût
1 semaine en novembre	SASSARI	PERUGIA . MADRID LONDRES	D. RUTILI A. JORDAS P. WILKINSON	1.500
4-14 décembre	MADRID	PERUGIA	D. RUTILI	750

30

Echanges de chercheurs : Viande bovine 1979

Date	Destination	Lieu de provenance	Noms	Coût
17-22 juin	JOUY EN JOSAS	EDINBURGH BONN	R. SPOONER A. OLIVER D. CWICK	1750
3-7 septembre	THEIX	BONN LEEDS BRISTOL	J. RUCKENBUSH J. FORBES A. WEBSTER	1500
septembre 1979- avril 1980	DUBLIN	THEIX	A. LACOURT	5750
22-26 octobre	BLISWORTH	EGTVED	H. BUSK P. LEVIN J. JACOBSEN	1500
26-30 novembre	EGTVED	BLISWORTH	M. FURSEY M. ARNALL B. OWEN	1800

## Echanges de chercheurs :

Protéines végétales 1979

Date	Destination	Lieu de provenance	Noms	Cout
10 mai 23-27 juillet	STUTTGART GATERSLEBEN- FRIEDRICHSWERTH ROTHAMSTED	READING COPENHAGEN LUXEMBOURG via RISØ LONDRES	R. PHIPPS M. POULSEN M. KREIS A. WILKIE	1000 500 3000 4500
septembre et octobre	HURLEY			
novembre 1979 à janvier 1980				

Programme of meetings in 1980 : JANUARY

32

1.

<b>Programme</b>	<b>Date</b>	<b>Number of participants</b>	<b>Place</b>	<b>Titel</b>	<b>Local organiser</b>	<b>Cost (EUA)</b>
AGRIMED	15-16 january	25	Brussels	Grandes cultures techniques de production - Phytotechnie	R. TROISGROS	Poste 2500
EFFLUENTS from LIVESTOCKS	25 january	20	Brussels	Effluents from Livestocks programme committee	J. DEHANDSCHUTTER	Poste 2500

Programme of meetings in 1980 : FEBRUARY

2.

Programme	Date	Number of participants	Place	Title	Local organiser	Cost (EUA)
LAND-USE	27 february	16	Brussels	Expert Group Rural Environment related to man	A. PRENDERGAST	5.000
ANIMAL PATHOLOGY	4-6 february	30	Copenhagen (DK)	Workshop Epidemiology and control of nematodiosis in cattle	P. NANSEN	15.000
	18-21 february	20	Madrid (E)	Expert group African Swine Fever and ELISA test standardisation	SÁNCHEZ-BOTÍA	10.000
BEEF PRODUCTION	25-29 february	15	Wageningen (NL)	Workshop Performance Testing of AI Bulls	R.D. POLOTIEK	9.000
	29 february	40	Brussels	Consultation on the problems of Poultry welfare in the EEC	J. CONNELL	Poste 2500
GENE BANK	13-14 february	22	Brussels	Gene bank programme Committee	J. DEHANDSCHUTTER	Poste 2500

## Programme of meetings in 1980 : MARCH

3.

Programme	Date	Number of participants	Place	Title	Local organiser	Cost (EUA)
LAND-USE	25-26 March	13	Brussels	Programme Committee Land Use	A. PRENDERGAST	6.000
AGRI-M	5-7 March	10	Brussels	Expert Group Grandes cultures - vins	R. TROISGRAS	2.500
	18-19 March	24	Rome (I)	Ovins, paturages, forêts, contrats	LORIFARO	6.000
	25-26 March	10	Antibes (F)	Cystic disease : preparation of contracts	J. PONCHET	3.500
ANIMAL PATHOLOGY	23-24 March	20	Copenhagen (DK)	Training Course Bovine Leukosis on the diagnosis of bovine Leukosis with ELISA Test	R. HOFF-JØRGENSEN	7.500
BEES PRODUCTION	2-3 March	20	Brussels	Expert group "Genetics Selection, Nutrition and management"	J. CONNELL	6.250

Programme of meetings in 1980 : MARCH

35

Programme	Date	Number of participants	Place	Title	Local organiser	Cost (EUA)
	11-14 march	40	Luxembourg	Symposium Animal Welfare on "The inter-action of the bird and its environment + Expert Group	V. FISCHBACH R. MOSS	17.500
	19-21 march	20	Kulmbach (D)	Scientific Working group "Eating quality of beef" and Expert group "Carcass and meat quality"	L. SCHÖN	8.000
BIOLOGICAL CONTROL	18-19 march	13	Brussels	Meeting on "Innociuté et réglementation des agents de lutte biologique"	A. PIAVAUX	3.500
	25-27 march	12	Wye (UK)	Meeting "Entomoparasite and predators for biological control in orchards	P. GRUYS	3.500
EINE BANK	25 march	11	Brussels	Descriptors and descriptor states in strawberries	J. DEHANDSCHUTTER	4.000
GRO-FOOD	26-27 march	14	Brussels	Programme Committee Agro-Food	J. DEHANDSCHUTTER	5.000

## Programme of meetings in 1980 : APRIL

36

Programme	Date	Number of participants	Place	Title	Local organiser	Cost (EUA)
AGRIMEX	15-17 april	60	Naples (1)	Seminar "Influence de l'irrigation localisée sur la morphologie et la physiologie des systèmes racinaires"	P. TEDESCI	18.000
EEFF PRODUCTION	16-18 april	12	Brussels	Expert group 1. Survey of research priorities in physiology of reproduction 2. Coordination programme 1980	J. CONNELL	3.500
DUTCH E.M. DISEASE	17-18 april	18	Freiburg (D)	Seminar "Elm bark beetles"	D. KLIMETZEK	6.000

Programme of meetings in 1980 : MAY

6.

37

Programme	Date	Number of participants	Place	Title	Local organiser	Cost (EUA)
LAND-USE	20-22 may	19	Gent (B)	Workshop Land Resource Evaluation: Soil mapping of EEC countries	R. TAVERNIER	7.500
AGRIMED	7-9 may	30	Toulouse (F)	Seminar Grandes cultures : méthodologie et systèmes de culture	M. MARTY	18.000
	19-21 may	60	Rome (I)	Seminar grandes cultures production (céréales, oléagineux, fourrages)	MARIANI	20.000
EFFLUENTS from LIVESTOCK	20-23 may	52	Wexford (IRL)	"Workshop on nitrogen losses and surface run-off	J.C. BROGAN	12.500
BEEF PRODUCTION	27-29 may	35	Lelystad (NL)	Seminar : The methodology of feed-stuffs analyses	A.J.H. VAN ES	13.000

## Programme of meetings in 1980 : JUNE

Programme	Date	Number of participants	Place	Title	Local organiser	Cost (EUA)
AGRIMED	2-6 june	25	Scafati (I) Lecce	Expert group "Tabacs orientaux"	E. MARCELLI	12.000
EFFLUENTS from LIVESTOCK	10-13 june	55	Haren (NL)	Seminar on phosphorus in sewage sludge and animal waste slurries	S. DE HAAN	12.500
ANIMAL PATHOLOGY	3-5 june	16	Lelystad (NL)	Scientific workshop :	D.J. ELLENS	4.000
					J. CONNELL	3.250
			Brussels	Expert group protection of the young animal	J. CONNELL	3.000
				1. Coordination programme 1981-83, 2. Common programme : progress reports		
			Brussels	Expert group communicable diseases	J. CONNELL	
				1. Coordination 1981-83, 2. Common research 1982-83		

Programme	Date	Number of participants	Place	Title	Local organiser	Cost (EUA)
	27 june	13	Brussels	Expert group bovine leukosis : coordination and research 1981-83	J. CONNELL	4.000
BEEF PRODUCTION	10-12 June	32	Castanet Tolosan (F)	Seminar "Muscle hypertrophy of genetic origin and its utilisation to improve beef production"	F. MENISSIER	10.000
ECOLOGICAL CONTROL	12-13 June	12	Catania-Aciarelle (I)	Workshop "Etat d'avancement des essais pilotes en plein champ sur la lutte intégrée en agrumiculture"	M. NUCIFORA	3.000
PLANT PROTEIN	17-19 june	36	Merelbeke (B)	Workshop : Breding for increased efficiency of nitrogen utilisation; competition between grasses and legumes + programme committee meeting	A. ANDRIES	12.000
	24-26 june	37	Wageningen (NL)	Seminar on reproductive physiology, yield and idiotype in grain legumes; also field bean trials	DANTUMA	11.000

Programme	Date	Number of participants	Place	Titel	Local organiser	Cost (EUA)
AGRIMED	1 july	15	Brussels	Expert Group Grands cultures vins-mouts concentrés	R. TROISGROS	3.000
	2 july	20	Brussels	Agrimed Programme Committee	R. TROISGROS	5.000
ANIMAL PATHOLOGY	5 july	12	Brussels	Animal Pathology Programme Committee	J. CONNELL	4.000
BEEF PRODUCTION	10-11 july	20	Roskilde (DK)	Scientific Working group : the prediction of comparative retail value of beef carcasses from simple measurements	K. KOUSGAARD	8.000
	16 july	15	Brussels	Scientific Working Group : Bacteriological quality of beef carcasses	T.A. ROBERTS	6.000
	27-28 july	26	Wageningen (NL)	International bovine Lymphocyte Antigen workshop	R.L SPOONER	9.750
ANIMAL WELFARE	22-23 july	18	Brussels	Scientific Working Group Poultry Welfare Research Programme	J. CONNELL	Poste 2500
	1 july	14	Brussels	Agro-Food Programme Committee	J. DEHANDSCHUTTER	4.500
ANT PROTEIN	8-10 july	46	Braunschweig (D)	Seminar : Production and utilization of protein in oil seed crops	M. DAMBROTH	15.000

## Programme of meetings in 1980: SEPTEMBER

Programme	Date	Number of participants	Place	Titel	Local organiser	Cost (EUA)
LAND-USE	8-9 september	18	Brussels	Workshop on forage map of Europe	A. PRENDERGAST	4.500
	23-25 september	14	Brussels	1. Land Resource Evaluation Workshop 2. Expert group on integrated rural development + programme Committee meeting	A. PRENDERGAST	16.500
AGRIMED	23-24 september	20	Montpellier (F)	Réunion production de semences	M. GRIGNAC	6.250
ANIMAL PATHOLOGY	9-11 september	36	Bristol (UK)	Seminar : Protection of the young animal - mucosal immunity	F.J. BOURNE	15.000
BEEF PRODUCTION	25-26 september	24	Melle-Gontrode(B)	Beef production programme Committee + expert group on eating quality	C. BOUCQUE.	12.000
BIOLOGICAL CONTROL	16-17 september	12	Firenze (I)	Meeting on : Etat d'avancement des essais pilotes en plein champ sur la lutte intégrée en pléiculture	R. ZOCCHI	4.000
	24 september	11	Brussels	Meeting on biological control of plant pathogens present status and perspectives	A. PIAVAUX	4.250
	25-26 september	14	Brussels	Programme Committee meeting	A. PIAVAUX	6.000

## Programme of meetings in 1980 : SEPTEMBER

Programme	Date	Number of participants	Place	Title	Local organiser	Cost (EUA)
GENE BANK	9-10 September	16	Rilland (NL)	Descriptors and descriptor states in grasses	D.J. GLAS	4.000
	23-24 September	14	Brussels	Programme Committee meeting	J. DEHANDSCHUTTER	4.000
PLANT PROTEIN	1-4 September	36	Norwich (UK)	Workshop on Rhizobium and nitrogen nutrition of legumes	B. SNOAD	13.000

Programme	Date	Number of participants	Place	Titel	Local organiser	Cost (EUA)
LAND-USE	13-17 October	40	Wageningen (NL)	Seminar on Soil Degradation	G.A. OOSTERBAAN	30.000
AGRIMED	7 october	22	Brussels	Meeting Agrimed Grandes cultures	R. TROISGROS	10.000
	8 october	15	Brussels	Meeting Agrimed Irrigation loca-Lisée	R. TROISGROS	4.000
	20 octobre	50	Salamanca (E)	Meeting Agrimed ovins-forêts-paturages	M. THERIEZ	10.000
	20-22 October	30	Portugia (I)	Meeting Agrimed Grandes cultures - techniques culturales	Prof. BONCIARELLI	8.750
EFFLUENTS from LIVESTOCK	8-10 October	57	Bordeaux (F)	EEC workshop on problems encountered with Copper	C. JUSTE	25.000
ANIMAL PATHOLOGY	20-24 October	13	Madrid (E)	Training Course on African Swine Fever	Prof. SANCHEZ - 3OTIJA	9.700
ANIMAL WELFARE	7-8 October	37	Brussels	Seminar on the problem of dark cutting in beef	J. CONNELL	Poste 2500

Programme of meetings in 1980 : OCTOBER

VI-F-4

Programme	Date	Number of participants	Place	Title	Local organiser	Cost (EUA)
BIOLOGICAL CONTROL	1-2 October	12	Braunschweig (D)	Meeting on the reduction of the use of chemicals against noxious weeds	F. SCHUTTE	5.500
	9-10 October	11	Montfavet (F)	Meeting on : résultats et discussion des méthodes d'échantillonnage et élaboration des modèles pour Les insectes ravageurs du chou	J. MISSIONNIER	5.500

## Programme of meetings in 1980 : NOVEMBER

14.

Programme	Date	Number of participants	Place	Title	Local organiser	Cost (EUA)
ANIMAL PATHOLOGY	4-6 november	30	Hannover (D)	Scientific workshop on communicable diseases resulting from manures	H.J. HAPKE	20.000
	5-7 november	80	Bologna (I)	4th International Symposium on Bovine Leukosis	O.C. STRAUS	17.000
ANIMAL WELFARE	24 november	25	Brussels	Expert group Animal Welfare especially Poultry	J. CONNELL	5.500
	25-26 november	32	Brussels	Seminar "The welfare of pigs"	J. CONNELL	Poste 2500
BIOLOGICAL CONTROL	4-6 november	13	corsica Sardinia	Standardisation des méthodes biotechniques sur la lutte intégrée en agrumiculture	R. PROTAT	9.000
	20-21 november	10	Dossenheim (D)	Expert group meeting : progress on production and application of viral pesticides against orchard tortricids	E. DICKLER	7.000
	27-28 november	21	Harpden (UK)	Meeting on forecasting pests and diseases as a means of avoiding unnecessary applications of pesticides on cereals	T. LEWIS	12.000

15.

Programme of meetings in 1980 : NOVEMBER

VI-F-4

<b>Programme</b>	<b>Date</b>	<b>Number of participants</b>	<b>Place</b>	<b>Title</b>	<b>Local organiser</b>	<b>Cost (EUA)</b>
AGRO-FOOD	12-14 November	30	Brussels	Meeting of the project leaders + Programme Committee meeting	J. DEHANDSCHUTTER	17.000

Programme	Date	Number of participants	Place	Titel	Local organiser	Cost (EUA)
AGRIMED	2-4 December	75	Saragossa (E)	Agrimed ovins : croisement industriel avec les races locales méditerranéennes.	M. MUTCATALA	23.500
	10 December	18	Brussels	Agrimed Programme Committee meeting	R. TROISGROS	9.000
ANIMAL PATHOLOGY	1-3 December	30	Lisbonna (P)	Scientific workshop 1. ELISA 2. Methodology of the diagnosis of African Swine Fever	F. L. DE CASTRO PORTUGAL	24.000
BEEF PRODUCTION	8-10 December	19	Rome (I)	The cull cow as a beef producer	A. ROMITA	12.000
BIOLOGICAL CONTROL	10-11 December	12	Brussels	Discussions on coordination of investigations concerning carrot fly control	A. PIAVAUX	7.000
GENE BANK	3-4 December	9	Brussels	Descriptors and descriptor states in fruit trees	J. DEHANDSCHUTTER	5.000
	9-11 December	25	Braunschweig (D)	Descriptors and descriptor states in cereals	L. SEIDEWITZ	18.000

VI-1-4

Programme of meetings in 1980 : DECEMBER

17.

Programme	Date	Number of participants	Place	Titel	Local organiser	Cost (EUA)
PLANT PROTEIN	10 december	12	Brussels	Programme Committee meeting	G. PRENDERGAST	7.500
NOMBRE TOTAL DE REUNIONS EN 1980 :		84 DONT	48 A L'EXTERIEUR ET 36 A BRUXELLES			

ÉCHANGES DE CHERCHEURS : LAND-USE 1980

1.

49

Date	Destination	Lieu de provenance	Noms	Coût estimé (UCCE)
15 janvier	LONDON (Fitch)	Gand Dublin	TAVERNIER COLE	250
30 janvier	BRUXELLES	Wageningen Dublin	VAN DER PLAS COLE	500
18 février	WAGENINGEN (van der Plas)	Versailles Bonn	CONWAY DEFFONTAINES LAEPPEL	500
21-22 mai	GENT	Wageningen	BEEK	200
20-22 mai	GENT	Wexford (Irl)	J. LEE	300
10 jours en juillet	WAGENINGEN (Dr. Oosterbaan) VERSAILLES (Dr. Jamagne)	Dublin (An Foras Taluntais)	M. GARDINER	1.000
23-24 septembre	CEE-Bruxelles	Institute for Land and water management research WAGENINGEN	BEEK	150
17 jours en novembre	Differents centres "An Foras Taluntais" IRLANDE	Institut für Strukturfor- schung der Bundesforschung- anstalt für Landwirtschaft BRAUNSCHWEIG	W. PETERS V. LANGENDORF	5.000
6-7 novembre	- Geologisch inst. GENT - CEE BRUXELLES	MAFF READING (UK)	D.B.S. FITCH	400
12 jours fin novembre	- FAO ROME - Universités FLORENCE BOLOGNE - CNRA VERSAILLES	An Foras Taluntais WEXFORD (Ireland)	J. LEE	1.500

ECHANGE DE CHERCHEURS : LAND-USE 1980

2.

50

Date	Destination	Lieu de provenance	Noms	Coût estimé (UCF)
10 jours en décembre	- Field drainage experimental Unit - Cambridge - Agricultural Engineering Station - SILSOE - Dr. Van Soomeren - WAGENINGEN	An Foras Taluntais DUBLIN (Ireland)	M.L. GALVIN	900

ECHANGE DE CHERCHEURS : AGRIMED 1980

3.

51

Date	Destination	Lieu de provenance	Noms	Coût estimé (UCF)
6 mois (1er mars - 1er septembre)	GENEVA (USA) Plant pathology laboratory	INRA - ANGERS	Y. LESPINASSE	2.700
14-17 avril	WAGENINGEN (Plant protection service)	INRA - ANGERS	B. THIBAULT LECOMTE	1.000
22-24 avril	SARAGOSSA (Centre Inia)	OLMEDO (Sassari) Institut zootechnique	R. CARTA	330
2-6 juin	- Laboratory of plant protection service WAGENINGEN - Biologische Bundes- anstalt HEIKENDORF/KITZBERG	INRA - Station de patholo- gie végétale - ANGERS	J.P. PAULIN	1.800
23-27 juin	- Laboratory of plant protection service WAGENINGEN	INRA - Station de patholo- gie végétale - ANGERS	B. THIBAULT A. CADIC	
3-4 septembre	- Dispositif expérimental sur les alpages des communes de Thiranne Hau- te et la Valette	INRA - PARIS	R. FEVRIER	600

Date	Destination	Lieu de provenance	Noms	Cout estimé (UCe)
7-12 septembre	DUBLIN (Irl) Symposium ISHS	GEMBLOUX (B) ARSLEV (DK) BELLEGARDE (F) MORET S/LOING (F) PORTICI (It) URBINO (It) LUXEMBOURG WAGENINGEN (NL) WAGENINGEN (NL) HANNOVER (RFA) SILSOE (UK)	A. NISEN M.G. AMSEN M. WACQUANT M.Y. CORMARY A. BORRELLI C. STANGHELLINI L. WIETOR W.P. MULDER G.P.A. BOT VON ZABELTITZ B. BAILEY	6.000
21-27 septembre	PATRAS (Grèce) 5 ième congrès de l'Union phytopathologie méditerran- néeenne	INRA ANTIBES (FR)	Melle C. ANDREOLI	1.200
7 jours au mois d'octobre	- Istituto di Agronomia generale e coltivazioni Erbacee - Università di BOLOGNA (Prof. Toderi) - Séminaire Agrimed Gran- des cultures - PERUGIA - Istituto di Agronomia generale - Università di PALERMO (Prof. Locascio)	ARC - WANTAGE (UK)	R.Q. CANNELL	1.000

ECHANGE DE CHERCHEURS : EFFLUENTS 1980

5.

53

Date	Destination	Lieu de provenance	Noms	Coût estimé (UCE)
18-19 mars	BORDEAUX (FR)	LONDON (ARC)	J.K.R. GASSER	900
22 avril	HAREN (NL)	ARNHEM (NL)	J.H. VOORBURG	100

## ECHANGE DE CHERCHEURS : PATHOLOGIE ANIMALE 1980

Date	Destination	Lieu de provenance	Noms	Coût estimé (UCCE)
21-22 janvier	HANNOVER puis BRUXELLES	LIVERPOOL	R.J. WALTON	) 500
18-19 mars	BOLOGNE (I)	TÜBINGEN (RFA)	O. STRAUB	)
15 jours en juin	Laboratoire du Prof. C. Sanchez-Botija (CINIA) MADRID	SASSARI Istituto Profitatico sperimentale	P. COSSU A. FIRINI	2.500
17-20 novembre	Animal virus research Institute - PIRBRIGHT (Surrey - UK)	Istituto zooprofilattico NAPOLI - PALERMO - PADOVA - BRÉSCIA	T. CORSALINI P. AIELLO C. TURINI D. DE SIMONE	4.000
16 décembre	CEE-BRUXELLES	- ILIOB - WAGENINGEN (NL) - An Foras Taluntais - Dunsany (Irl)	E.J. VAN WEERDEN J.F. ROCHE	400
7 jours au mois de décembre	Greek Ministry of agricultur ture virus laboratory - ATHENES	Animal Virus Research Institute - PIRBRIGHT (UK)	Dr. HERNIMAN Dr. GUNN	600

## ÉCHANGE DE CHERCHEURS : VIANDE BOVINE (1980)

7.

55

Date	Destination	Lieu de provenance	Noms	Coût estimé (UCCE)
23 janvier	BRUXELLES	BRISTOL	D.N. RHODES	500
26 février	BRUXELLES	KULMBACH (RFA) ZEIST (NL) BRISTOL (UK)	L. SCHON H. DE BOER J.M. HARRIES	1.500
2-3 juin	COPENHAGEN (DK) (chez Prof. Bech Andersen)	MILTON KEYNES (UK) (Meat and Livestock Commission)	A. CUTHERSTSON D. MILES	1.000
16-17 juin	JOUY-EN-JOSSAS (FR)	EDINBURGH Animal Breeding Research Organisation	KING SMITH HINKS TAYLOR THIESSEN WEBB	1.500
1er août - 1er octobre	DUBLIN An Foras Taluntais	COPENHAGEN	L.G. CHRISTENSEN	3.000
17 octobre	INRA - THEIX (F)	- INRA - BEAUMONT (F) - KULMBACH (RFA) - MRI - BRISTOL (UK) - UTRECHT (NL) - CASTLEKNOCK (IRL) - GONTRODE (B) - ROSKILDE (DK) - ROME (IT)	C. VALIN MONICKEL A.A. TAYLOR G. VAN LOGTESTYN P.V. TARRANT CASTEEELS LIS BUCHTER A. ROMITA	4.250
10 novembre 80 - 10 janvier 81	MEAT research Institute LANGFORD BRISTOL (UK) (Labo Dr. Etherington)	Université de BORDEAUX TALENCE (F)	P. COTTIN	2.000

## EXCHANGE DE CHERCHEURS : VIANDE BOVINE 1980

56

Date	Destination	Lieu de provenance	Noms	Cout estimé (UCe)
5 jours en décembre	- Animal Research Station CAMBRIDGE (UK) - Physiology Research Unit Ruislip (UK) - Hormone Assay Unit WORCESTER (UK)	Agricultural Institute GALWAY (Ireland)	J.M. SREENAN	500
22 décembre	CEE - BRUXELLES	- Instituut voor Veeteelt- kundig onderzoek "Schoon- oord" ZEIST (NL) - Meat and Livestock Commis- sion BEETCHLEY (UK)	H. DE BOER H. HARRINGTON	400

VI-F-4

ECHANGE DE CHERCHEURS : ANIMAL WELFARE

9.

Date	Destination	Lieu de provenance	Noms	Coût estimé (UCCE)
10 novembre - 10 décembre	Station Expérimentale du Magneraud SURGERES (F) (chez Prof. J.M. Faure)	A.R.C. Poultry Research Centre EDINBURGH (UK)	R.B. JONES	1.000

ECHANGE DE CHERCHEURS : LUTTE BIOLOGIQUE 1980

10.

58

Date	Destination	Lieu de provenance	Noms	Coût estimé (UCE)
8 jours en avril	INRA - VERSAILLES - LE RHEU	GÖTTINGEN	G. SIEBGRASSE	1.000

ECHANGE DE CHERCHEURS : GENE BANK 1980

11.

59

Date	Destination	Lieu de provenance	Noms	Coût estimé (UCCE)
10-14 mars	WELLESBOURNE (UK)	BOLOGNA (IT) MIDLOTHIAN (UK) WAGENINGEN WAGENINGEN	CONTI MAC FARLANE ROE LOFSSEN TOXOPEUS	3.250

60

12.

ÉCHANGE DE CHERCHEURS : MALADIE DE L'ORME 1980

VI-F-4

Date	Destination	Lieu de provenance	Noms	Cout estimé (UCE)
juillet	ROUMANIE	WRECCLESHAM (UK)	D.A.A. BURDEKIN	1.300

## ÉCHANGE DE CHERCHEURS : PROTEINS VÉGÉTALES 1980

Date	Destination	Lieu de provenance	Noms	Coût estimé (UCE)
24 avril	STUTTGART - HOHENHEIM chez Prof. von Kittlitz)	ARNHEM (NL) WEXFORD (IRL) OLDENBURG (RFA) DIJON (FR) WAGENINGEN (NL) GÖTTINGEN (RFA)	VOORBURG BROGAN VETTER CATROUX DANTUMA FRAUEN	1.000
1-8 juin	LONDON, CAMBRIDGE, BRISTOL, STERLING	LUSIGNAN	J. GONDRAIN	650
13 jours en juin	Institut für Grünlandwirtschaft, Futterbau und Futterkonservierung - BRAUNSCHWEIG	Hurley (UK) Grassland Research Institute	R.F. WILSON	900
5 jours en juin	An Foras Taluntais CARLOW et JOHNSTOWN CASTLE WEXFORD	Hurley Grassland Research Institute	R.J. WILKINS J. MORRISON	900
9 jours en juillet	DIJON (INRA; Dr. Picard) RENNES (INRA; Dr. Berthelot)	GÖTTINGEN	M. FRAUEN	800
9 jours en août	WAGENINGEN (Centre for agrobiological Research)	WEXFORD An Foras Taluntais	T.F. GATELY	1.000
3 jours en septembre	Atomic Energy Station RISØ (DK)	Rothamsted Experimental Station HARPENDEN (UK)	S.W.J. BRIGHT	700
2 jours en septembre	Société France Lizerne CHALONS-SUR-MARNE	An Foras Taluntais CASTLEKNOCK (IRL)	M.F. MAGUIRE	600
7 jours en octobre	HEIDELBERG (RFA) FREIBURG (RFA)	Rothamsted Experimental Station HARPENDEN (UK)	B.J. MILFILN M. KREIS	1.500
Tout le mois d'octobre	NORWICH (UK) John Innes Institute (Prof. B. Snood)	PORTICI (IT)	L. FRUSCIANTE	2.100

Date	Destination	Lieu de provenance	Noms	Cout estimé (UCCE)
7 jours en novembre	HARPENDEN (UK) Rothamsted Experimental Station	ROSKILDE (DK) Risø National Laboratory	Melle H. GIESE	600
6 jours en novembre	CORDOBA (EE) Département de Génétique de l'Université	BARI (IT) Département de génétique de l'Université	L. RICCIARDI	900
7 jours en novembre	LODI (IT) Istituto Sperimentale per la cultura foraggere	LUSIGNAN (F) INRA-Station d'amélioration des plantes fourragères	G. GENIER	900
5 jours en novembre	CAMBRIDGE (UK) Plant Breeding Institute	PORTICI (IT) Département de génétique végétale de l'Université	A. ERRICO	1.000
4 jours en novembre	LUSIGNAN (F) INRA-Station d'amélioration des plantes fourragères	PERUGIA (IT) Université	M. FALCINELLI F. VERONESI	1.400
5 jours en novembre	TOULOUSE (F) INRA	PADOVA (IT) Université - Institut d'agronomie	G. MOSCA	800
5 jours en décembre	COPENHAGEN (DK) National Institute of Animal Science, Physiology and chemistry	MELLE-GONTRODE (B)	W. EECKHOUT	600
4 jours en décembre	National Institute of Animal Science - COPENHAGEN (DK)	Grassland Research Institute - HURLEY (UK)	M.R.A. TERRY	800

15.

ECHANGE DE CHERCHEURS : PROTEINES 1980

VI-F-4

Date	Destination	Lieu de provenance	Noms	Coût estimé (UCE)
5 jours en décembre	INRA - Station de génétique VERSAILLES (FR)	National vegetable research station WELLESBOURNE (UK)	R.C. HARDWICK J.D. TAYLOR G.A. WALKEY	2.100
<b>TOTAL :</b>		59 échanges de chercheurs (soit 113 déplacements) pour un coût estimé total de <b>75.280 UCE</b>		