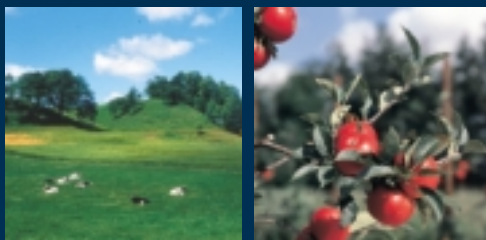


PROCEEDINGS

Organic Food and Farming



Towards
Partnership
and
Action
in Europe

10 - 11 MAY 2001
COPENHAGEN
DENMARK

ORGANISED BY THE DANISH MINISTRY OF FOOD, AGRICULTURE AND FISHERIES

In Copenhagen on the 10th to 11th of May 2001 the Danish Ministry of Food, Agriculture and Fisheries hosted the European conference "Organic Food and Farming - Towards Partnership and Action in Europe".

The decision to organise the conference aiming at partnership and action was among other things based on the experience from the conference Organic Farming in the European Union - Perspectives for the 21st Century in Vienna (Baden) May 27th to 28th 1999.

Hence it was the ambition that the Copenhagen conference together with the Vienna conference should be able to create tangible results.

By reaching consensus about the Copenhagen Declaration I believe that this ambition was realised, and in this context I would like to express my thanks to the Programme Committee, the National and International Reference Group as well as everybody else that has been involved in this process.

The Copenhagen Declaration was signed by eleven European ministers and four major organisations, that calls upon the Council, the European Commission and European governments demanding that a European Action Plan should be developed within the next two years.

Hence the Copenhagen Declaration provides a tangible platform for the further development of the organic sector in Europe.

Based on the conference and the Copenhagen Declaration the Council of Ministers has invited the Member States, the Commission and stakeholders to share ideas on what further action at European Union level could facilitate production, processing, trade and consumption of organic products in Europe.

On behalf of the Danish government I will express the hope that all interested partners at all levels will now commit themselves to this project and take appropriate action thereby leading us towards the creation of the European Action Plan.

Hopefully these proceedings including the Copenhagen Declaration, the conclusion from all thematic sessions and the full version of the conference presentations will be of value in the process that is now to follow.

Ritt Bjerregaard

ORGANISERS

The conference was organised by The Danish Ministry of Food, Agriculture and Fisheries in close co-operation with a range of partners.

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Mr. Martien Lankester, Avalon Foundation
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Mr. Urs Niggli (CH)

Stimulating the potential for innovation in organic farming by research

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1. INTRODUCTION AND HISTORY OF ORGANIC FARMING RESEARCH

Organic farming research has been developed over 4 stages: i) Pioneer farmers and scientists, ii) pioneer private research institutes, iii) organic farming chairs at universities and finally iv) organic farming projects and institutes at state research institutions (figure 1). Today, organic agriculture has become finally accepted within agriculture and food research. Some of the key players in organic research in Europe are mentioned in table 1. Mainly in Europe, public funded research has shifted towards organic farming, whereas the research resources for conventional farming have been cut down considerably

Figure 1: Development of organic farming research in a historical context.

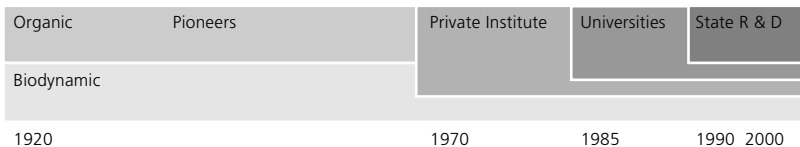


Table 1: Key players in organic farming research

The Pioneers

Philosophical extension of research:
Rudolf Steiner, Ehrenfried Pfeiffer, Lili Kollisko

Criticism of science:

(Samuel Hanemann), Eve Balfour, Hans-Peter Rusch

Agro-ecological approach:

Raoul Francé, Albert Howard, Franz Sekera, Eduard von Boguslawski,
Jean Boucher

The private research institutes

Research Institute of Biodynamic Agriculture, D (1954)
Research Institute of Organic Agriculture (FiBL), CH (1974)
Louis Bolk Institute, NL (1976)
Rodale Institute, USA (1947, research activities since 1976) (USA)
Ludwig Boltzmann Institute for Organic Agriculture and
Applied Ecology, A (1980)
Elm Farm Research Centre, UK (1982)
Henry Doubleday Research Association (HDRA), UK (1984)
Norwegian Research Institute for Organic Agriculture (NORSOK) (1987).

**Organic Chairs at universities
and agricultural colleges**

Germany: Kassel-Witzenhausen, Bonn, Gießen, Nürtingen, Osnabrück,
Hohenheim; coordinators of at the universities of Munich and Stuttgart

Austria: University of Vienna

Denmark: KVL, University of Copenhagen

Netherlands: University of Wageningen

Sweden: Swedish Agricultural University

UK: Institute of Rural Studies, The University of Wales Aberystwyth,
Scottish Agricultural College (SAC)

Hungary: Universities of Budapest and Gödöllő

Poland: University of Warsaw

State R&D

Denmark: Danish Research Centre for Organic Farming, DARCOF, Foulum

Finland: Research Station for Ecological Agriculture, Partala

Sweden: Centre for Sustainable Agriculture, CUL, Uppsala

Norwegian Centre for Ecological Agriculture, NORSOK, Tingvoll Gard

UK: Ministry of Agriculture and Fishery (MAFF), 54 projects at
universities, colleges and state or recently privatised institutes

NL: Research projects carried out by conventional research institutes.

Austria: State research institutes at Gumpenstein and Linz

France: Institut National de Recherche Agronomique, INRA

Swiss Federal Research Station for Agroecology and Agriculture,
FAL, Zürich

Germany: Bundesforschungsanstalt für Landwirtschaft, FAL, Trenthorst;
numerous research project as regional state research stations

2. FURTHER STIMULATION BY RESEARCH IS CRUCIAL

Several recent review papers have dealt with the needs and priorities of research activities in organic farming (Niggli and Willer 2000, Padel 1999, Willer and Zerger 1999,

THEME 9

Wynen 1998, Hooeek 1997, Niggli and Lockeretz 1996). Because agricultural research has neglected organic farming for decades, presentations of research needs turn out to be long lists of top priority.

Organic farmers face the same problems as conventional ones do. 'Unfortunately', however, organic farming takes a more integrative - and therefore more time consuming - approach to resolving them. Considerably less private-sector research support, such as from pesticide and seed companies, is allocated to organic farming. Therefore, research has the potential to be the crucial factor driving organic farming quickly and substantially forward. It is pure nonsense to discuss the productivity and economic and ecological performance of organic farming before stimulating its potential by strengthening and reassessing national and EU research activities.

To judge research priorities properly, the following questions have to be considered (see also table 2):

- What impedes the fast growth of organic conversion - locally, regionally and globally - most? Focus: Production techniques, economic optimisation strategies.
- What could endanger the market success of organic food? Focus: Quality, food safety.
- What is needed for the long-term and sustainable progress of organic farming? Focus: Ethics, animal welfare, genetic resources, landscape and biodiversity, social issues.

Table 2: How to judge research priorities?

Criteria, goals	Fields where activities are need (1= highest priority)
Fast growth to 20 or more percent of land area.	<ol style="list-style-type: none"> 1. Arable crops (reducing labour costs! weeding! plant protection! productivity!) 2. Horticultural crops (plant protection! varieties! labour costs! quality and marketing!) 3. Non-ruminants (nutrient cycles! protein supply! appropriate housing! breeding! free range systems!) 4. Ruminants (tethering! utter diseases! endoparasites! breeding!) 5. Grassland 6. Economic Aspects 7. Policy advice (optimal support instruments for organic agriculture; research into ecological, economic, social advantages of organic farming and optimisation strategies)
Ensuring market success (food scares, good image, quality)	<ul style="list-style-type: none"> • Ruminants (BSE! Antibiotics! milk quality! Tethering!) • Horticultural crops (plant protection! copper! High external input instead of closed cycles! N-management! Sensorial and cosmetic quality) • Labour situation/fair trade issues (casual labourers from the South and the East!) • Non-ruminants (nutrient cycles not closed! Protein feed supply! inappropriate housing! Intensive use of chemical remedies!) • Arable crops (nitrates! mycotoxins! missing crop rotation! Soil compaction-> soil erosion!). • Nature conservation (no minimal requirements in the standards). • Grassland (too intensive use, no biodiversity) • Processing (diversification of product range, sensorial quality; GMO)

Long-term and sustainable progress of organic farming.

1. Ruminants: Ethical questions, breeding, holistic approach to animal health.
2. Non-ruminants (nutrient cycles! Breeding! Consequent free range and fattening systems).
3. Nature conservation: Organic farms must become partners of nature conservation.
4. Rural development: Potential of organic farming for rural regions, landscape maintenance and development, jobs, decentralised economic growth, social work of farmers.
5. Organic produce in Supermarkets (fair trade! convenience!)
6. Plant production (breeding, optimisation of ecological plant protection and fertilisation systems)
7. Energy (use of on-farm-generated/renewable energies, reduction of energy consumption, optimisation of packaging, transport, life cycle assessment)
8. Processing (ingredients, energy)
9. Soil management (soil life, appropriate (use of) machinery)
10. Progress in fields related to organic farming, textiles, forest, aquaculture, ecological production of farm and processing inputs

3. STICKING TO THE INHERENT METHODOLOGICAL APPROACH OF ORGANIC FARMING RESEARCH

Further progress in organic farming cannot be obtained by improving or changing 'vertically' single parts of the landscape, the farm or the individual production technique without regard to the horizontal interactions and the fragility of agro-ecological systems. Therefore, organising organic farming research within the currently completely segregated agricultural research structures is not appropriate - indeed, such an approach may even be lethal to organic farming. The prerequisite to strengthening research in this field is to have strong and efficient core structures or schemes (national or regional hubs) which support specialists in complex research programmes. These hubs can be organised as a leading institution, as a permanent forum of researchers or as a strongly facilitating secretariat (see table 4).

Table 4: Different ways of organising organic farming research by appropriate structures (hubs)

Danish Research Centre for Organic Farming (DARCOF), Denmark	Research institute "without walls", research secretariat which co-ordinates projects carried out at conventional research institutes (universities, state centres, private institutes) financed by a R&D programme of the ministry.
Louis Bolk Institute, Netherlands	Researchers of the private pioneer institute Louis Bolk are involved as external experts in all organic farming research projects of conventional institutes in Holland. Some of the projects are carried out directly at Louis Bolk Institute.
Research Institute of Organic Agriculture (FiBL), Switzerland	Most of the research in organic farming in Switzerland is done at the private pioneer institute FiBL. Research projects cover all disciplines. Projects are often multidisciplinary. Extension (advisory work) is under the same roof as research.

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Colloquium of Organic Researchers (COR), Kingdom A loose platform of committed organic farming researchers from private institutes, universities and state R&D dedicated to discuss methodological United issues, to co-ordinate priority setting and to induce concerted projects.

Research initiative organic farming (FiÖL), Germany A project of 5 leading research institutes with a common professional secretariat co-ordinating a permanent platform as it is described for COR (see above). Project in application.

Methodologically, organic farming research distinguishes itself from conventional research by:

1. Applying consistently multidisciplinary approaches to solutions.
2. Integrating stakeholders (farmers, consumers, nature conservationists, processors) into research (participatory approach).
3. Re-scaling continually the focus of research work in the same project (e.g. cell, plant, field, farm, region, market, policy).
4. Considering and deciding on long term impacts (economy, ecology, health and social welfare).
5. Considering individual, social, ethical and philosophical frameworks of agriculture and food in addition to natural science.

Because of these methodological differences, organic farming research proposals often do not match the criteria of research funds. This partly explains the high percentage of failed organic proposals. Without a major change of evaluation procedures, organic farming research will become 'conventional' step by step. To avoid competition between organic farming research and fundamental research in molecular-biology, separate programmes for organic farming research need to be set up. Such programmes ensure a level playing field for fair competition, namely between organic farming projects.

3. RECOMMENDATIONS AND CONCLUSIONS

8. On national as well as on EU-level, research funds should be directed substantially towards organic farming in order to improve the economic and ecological performance of organic farming. The impact of research funds is very high in this field of food production, because the potential of organic farming is only slightly exploited by research.

9. Integrating organic farming research into conventional research structures means disintegrating organic farming itself. Therefore, special attention should be given to how research activities are organised. National or regional centres of competence (hubs) are needed in order to provide and to maintain an appropriate quality of research. These hubs can be organised as real or virtual centres.

10. Evaluation procedures for most national and EU research funds do not consider adequately the unique approach and methodology of organic farming research. These

procedures have to be amended and evaluators have to be trained. A separate programme for organic farming R&D within the future EU frameworks is strongly recommended.

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Mr. Bent Claudi Lassen (DK)

Research as a Tool for Development of the Organic Sector

Research is the tool to create new knowledge and hereby the starting point for future development. Visionary political decisions and targeted research programmes to fulfil the political, economic or other goals have many times in history shown, that we can move far ahead - and often far longer than we ever imagined. This is the case in technical sciences such as computers and information technology, spacecraft and renewable energy.

It is, however, just as important in agriculture - and here we have the same experiences. Only through willingness to invest in research we can improve agriculture and put forward the basic knowledge such as:

- reduce the impact of agriculture on the environment

Bibliographic quote:

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