



4th EUROPEAN SUMMER ACADEMY ON ORGANIC FARMING

in the CEI region

ABSTRACT PROCEEDINGS

Bořivoj Šarapatka (ED.)

30. 6.–2. 7. 2004

LEDNICE • CZ



ABSTRACT PROCEEDINGS

Edited by: Bořivoj Šarapatka
Translation
into Czech: Bořivoj Šarapatka
Jaroslav Pražan
Technical editor: Hana Dziková, Monika Reichlová
Cover: Markéta Doubravská

Printed by Palacký University, Olomouc, Czech Republic
Křížkovského 8, 771 47 Olomouc, www.upol.cz

1st edition
Olomouc 2004

ISBN 80-244-0868-6

CONFERENCE A

ORGANIC FARMING, GOOD AGRICULTURAL PRACTICE, PROTECTION OF THE ENVIRONMENT

Conference guarantee: **Doc. Dr. Ing. Bořivoj Šarapatka, CSc.,**
Palacký University Olomouc, Czech Republic

Moderators: **Doc. Dr. Ing. Bořivoj Šarapatka, CSc.,**
Palacký University Olomouc, Czech Republic
Dr. Bernhard Kromp,
Ludwig Boltzmann Institute for Organic Farming
and Applied Ecology, Vienna, Austria

Topic A1:

ORGANIC FARMING AND GOOD AGRICULTURAL PRACTICE

- *Prof. Dr. Hans-Peter Piorek*, Department for Agricultural Land Use,
University of Applied Sciences, Eberswalde, Germany
**Good agricultural practices in organic farming systems:
Agro-environmental indicators for the evaluation
of environmental impacts of farming systems** 13
- *Dr. Bernhard Kromp*, Ludwig Boltzmann Institute for Biological
Agriculture and Applied Ecology, Vienna, Austria
**Self-regulation in agro-ecosystems – The backbone
of plant protection in organic farming** 15
- *Ir. Wijnand Sukkel*, Applied Plant Research,
Wageningen University and Research Centre, the Netherlands
**Good organic farming practices, between intentions
and label regulations** 16
- *Dr. Guido Haas*, Institute of Organic Agriculture,
University Bonn, Germany
**Impact of best management practice in organic agriculture
on aquatic resources** 18

Topic A2:
QUALITY OF THE SOIL

- *Dr. Andreas Fließbach, Dr. Paul Mäder*, Research Institute for Organic Agriculture (FiBL), Frick, Switzerland
Productivity, soil fertility and biodiversity in organic agriculture 20
- *Dr. Wilfried Hartl*, Ludwig Boltzmann Institute for Biological Agriculture and Applied Ecology, Vienna, Austria
Soil fertility and organic farming 22
- *Assoc. Prof. PhD. Artur Granstedt*, The Biodynamic Research Institute, Skilleby Farm, Järna, Sweden
Improvement of soil fertility and nature resource conservation by organic recycling agriculture practices 23
- *Dr. Bruce C. Ball, Dr. Christine A. Watson*, Crop and Soil Research Group, Scottish Agricultural College, Edinburgh, United Kingdom
Soil quality and greenhouse gas emissions in organic farming systems 25
- *Doc. Dr. Ing. Bořivoj Šarapatka, CSc.*, Department of Ecology and Environmental Sciences, Palacký University Olomouc, Czech Republic
Soil quality indicators in organic farming 27

Topic A3:
WATER QUALITY

- *Dr. Erik Steen Kristensen, Dr. Marie Trydeman Knudsen*, Danish Research Center for Organic Farming (DARCOF), Tjele, Denmark
The environmental impact of organic farming in Europe; Status and need for development with special reference to the aquatic environment 29

- *Prof. Dr. Jürgen Heß*, Faculty of Organic Agriculture,
 University of Kassel, Department of Organic Farming
 and Cropping Systems, Kassel-Witzenhausen, Germany
**Plant production strategies in organic farming and their impact
 on ground water protection** 31

- *Ing. Roman Rozsypal, CSc., Ing. Jan Klír, CSc.*, Research Institute
 of Crop Production, Prague-Ruzyně, Czech Republic
**The directive EU 91/676 EEC (Nitrate directive)
 application in the organic farming in the Czech Republic** 33

- *Dipl. Ing. Knut Höllein, Dipl. Ing. Jörg Schuchardt*,
 AquaKomm, Munich, Germany
**Water resources engineering
 – experiences in voluntary approaches** 35

- *Ing. Tomáš Zidek*, Research Institute
 of Agricultural Economics, Prague, Czech Republic
**Support to organic farming in agro-environmental
 measures in the new EU countries** 36

CONFERENCE B

ORGANIC FARMING AS A BUSINESS

Conference guarantee: **Ing. Jaroslav Pražan,**
Research Institute for Agricultural Economics,
Brno, Czech Republic

Moderators: **Ing. Jaroslav Pražan,**
Research Institute for Agricultural Economics,
Brno, Czech Republic
BSc. (Hons) Org. agr. Jörn Sanders,
Research Institute for Organic Agriculture (FiBL),
Frick, Switzerland

Topic B1: FARMECONOMICS

- *Dr. sc. agr. Matthias Stolze,* Research Institute
for Organic Farming (FiBL), Frick, Switzerland
**Organic Farming and the conflict
between economics and ecology** 39
- *Dr. Ruth Kratochvil,* BOKU – University of Natural Resources
and Applied Life Sciences, Department of Sustainable
Agricultural Systems, Vienna, Austria
**Farm management and regional economic aspects
of a widespread adoption of organic farming** 40
- *Dr. Hiltrud Nieberg, Dr. Katrin Zander,*
Federal Agricultural Research Centre (FAL),
Institute of Farm Economics, Braunschweig, Germany
**Profitability of organic farming:
Results from different European countries** 42

- *Prof. Ing. Iva Živělová, CSc.*, Mendel University of Agriculture and Forestry, Faculty of Business and Economics, Brno, Czech Republic
The comparison of contemporary situation on markets with selected organic products in the Czech Republic and in selected foreign countries 44
- *Ing. Jaroslav Jánsoj, CSc.*, Mendel University of Agriculture and Forestry, Faculty of Business and Economics, Brno, Czech Republic
Economic evaluation of the production of the selected organic products in the Czech Republic 45

**Topic B2:
MARKETING**

- *Prof. Dr. Ulrich Hamm*, University of Kassel, Faculty of Organic Agriculture, Kassel – Witzenhausen, Germany
Analysis of the European organic food market and conclusions for market actors 46
- *Dipl. Ing. agr. ETH Otto Schmid*, Research Institute for Organic Agriculture (FiBL), Frick, Switzerland
Organic market initiatives and rural development – perspectives and potential 48
- *Ralph Liebing*, VNOe – Austrian Organic Retailers Association, Vienna, Austria
Mgr. Tomáš Václavík, Green marketing, Moravské Knínice, Czech Republic
Importance of the diversity of organic food marketing channels with special emphasis on the organic retailing sector 50
- *Dipl. Ing. Anamarija Slabe, Ariana-Lucija Tratar-Supan*, Institute for Sustainable Development, Ljubljana, Slovenia
Challenge of supermarket for small Slovenian organic farms: an experience with project “Good food from Slovenian farms” 52

- *Dr. Sylwia Zakovska-Biemans*, Warsaw Agricultural University
Department of Organization and Consumption Economics,
Warsaw, Poland
**Opportunities and barriers to developing organic markets
in the central and eastern European new EU member states
– Polish experience in building information systems
for organic market** 54

Topic B3:

POLICIES AND INSTITUTIONS METHODS

- *MSc. Thomas Dosch*, Association of Organic Farmers Bioland,
Mainz, Germany
The role of politics for the development of organic farming 56
- *Dipl. Ing. agr. Heidrun Moschitz*, Research Institute
for Organic Agriculture (FiBL), Frick, Switzerland
Making politics – Institutions involved in organic farming policy 58
- *Dr. Volker Beckmann*, Humboldt University of Berlin,
Department of Agricultural Economics and Social Sciences,
Berlin, Germany
Institutional aspects of organic food production 60
- *BSc. (Hons) Org. agr. Jörn Sanders*, Research Institute
for Organic Agriculture (FiBL), Frick, Switzerland
**The future policy environment of organic farming
and its impact on the economic performance against
the background of the ongoing trade liberalisation** 62