



# European Society for Agricultural and Food Ethics (EurSafe)

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## ***Newsletter***

***Volume 3, No.3, September 2001***

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### **Editorial**

Tuesday, September 11, 2001... the words still fail me. All the best to our American friends in coping with this end of the world as we knew it. I hope to see some of you at EurSafe2001 in Florence.

*Volkert Beekman*  
*Chief-Editor EurSafe Newsletter*

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# EurSafe News

**Third Congress  
of the  
European Society for Agricultural and Food Ethics  
(EurSafe 2001)  
*Food Safety, Food Quality and Food Ethics*  
Florence  
October 3-5, 2001**

## ***Main Programme***

### ***Wednesday, October 3***

- 10.00-14.00 Registration
- 15.00 First plenary session  
Chair: Frans W. A. Brom  
Opening of the Congress  
Welcome addresses by:  
Augusto Marinelli, Rector of the University of Florence  
Franco Scaramuzzi, President of Accademia dei Georgofili  
Opening lecture by:  
Peter Sandoe, President of EurSafe:  
*Food Safety and Ethics. The Interplay between Science and Values*
- 16.15 Coffee break
- 16.45-18.45 Second plenary session  
Chair: Mariachiara Tallacchini  
Brian Wynne, Lancaster University, UK:  
*Public Lack of Confidence in Science? Have We Understood the Causes Correctly?*  
Jerome R. Ravetz, The Research Methods Consultancy Ltd., UK:  
  
*Food Safety, Quality, and Ethics – A Post-Normal Perspective*  
Sir John Krebs, Chairman of Food Standards Agency, UK:  
*Building Consumer Confidence: the UK Experience*
- Palazzo Vecchio, Salone dei Cinquecento
- 20.00 Welcome concert by the Scuola di Musica di Fiesole  
21.00 Welcome drink in the courtyard of Palazzo Vecchio

### ***Thursday, October 4***

- 09.00-11.00 Third plenary session  
Chair: Jan Staman  
Sheila Jasanoff, John F. Kennedy School of Government, Harvard University, USA:  
*Citizens at Risk: Reflections on the US and EU*  
Eduard Veltkamp, Unilever, The Netherlands:  
*Use of Modern Biotechnology in Food & Agriculture: Views from the EU-US  
Biotechnology Consultative Forum*  
Lori Knowles, The Hastings Center, USA:  
*Bridging the (Agri)Cultural Divide: Public Perceptions of Agricultural  
Biotechnology in Europe and North America*
- 11.00 Coffee break



- 11.30 First parallel workshop session
- 13.00 Lunch
- 14.30 Second parallel workshop session
- 16.30 Coffee break
- 17.00-19.30 Fourth plenary session  
 Chair: Cornelis Pieter Veerman  
 Brunetto Chiarelli, University of Florence, Italy:  
*Spongiform Encephalopathy, Cannibalism and the Extinction of Neanderthals*  
 Giuseppe Bertoni & Luigi Calamari, Catholic University of Milan, Italy:  
*Animal Welfare and Human Needs: Are They Contradictory?*  
 Bernard E. Rollin, Bio-ethical Planning, Colorado State University, USA:  
*Livestock Production and Emerging Social Ethics for Animals*

**Friday, October 5**

- 09.00 Fifth plenary session  
 Chair: Fons Werrij  
 Francis Sévila, Agro Montpellier Agricultural University, France:  
*Ethical and Deontological Aspects of Innovation and Design - The Case of ICT, Information and Communication Technology*  
 Oddone Longo, University of Padua, Italy:  
*The Fairness of the Farm. Ecology and Ethics in Ancient Greece*  
 Gerard Viatte, OECD, Paris, France  
*Agriculture and Sustainable Development: a Social and Policy Challenge*
- 11.00 Coffee break
- 11.30 Third parallel workshop session
- 13.00 Lunch
- 14.30 Fourth parallel workshop session
- 16.30 Coffee break
- 17.00 Sixth plenary session  
 Chair: Ben Mepham  
 Beate Kettlitz, The European Consumers' Organisation, BEUC, Brussels, Belgium:  
*Consumer Perception of Food Risk and Consumer Trust*  
 Lawrence Busch, Michigan State University, USA:  
*Virgil, Vigilance, and Voice: Agrifood Ethics in an Age of Globalization*
- 18.00 Short break
- 18.15-19.30 Seventh plenary session  
 Chair: Peter Sandøe  
 EurSafe General Assembly  
 Congress Conclusions by:  
 Frans W. A. Brom, Secretary of Eursafe
- 20.30 Official dinner (venue to be announced)  
*"Every Living Creature Relates to the Great Spirit"*, poetry reading by  
 Manrico Murzi, University of Genoa, Italy



## **Saturday, October 6**

The Chianti guided tour

From Florence to Siena through Monteriggioni and a wine testing stop at the Castello d'Albola wineries.

Guided walking tour through Florence hidden artistic treasures

Beato Angelico frescoes in San Marco, Benozzo Gozzoli frescoes in Palazzo Medici Riccardi, and the exclusive Corridoio Vasariano from the Uffizi Gallery to Pitti Palace.

## **Sunday, October 7**

University of Florence (details of venue to be announced)

09.00-13.00 Satellite workshop:

*Beyond Biosafety & Public Health: Addressing Concerns of Use and Morality in US/European Acceptance of Genetically Modified Foods*

Organisers:

Tarla Rai Peterson, Texas A&M University, USA

Sigrid Sterckx, Ghent University, Belgium

## **Parallel Workshop Session Program**

### **Thursday, October 4**

#### **11.30 First parallel workshop session**

##### Fundamentals of Animal Ethics

Andrea Arz de Falco

*Transgenic Animals in Agriculture: An Ethical Evaluation Giving Special Consideration to the Notion of "Dignity of Creation"*

Adviye Azmaz

*Animal Welfare in an Islamic Country - Turkey*

Helena Röcklinsberg

*Organic and Theocentric Perspectives on the Ethics of Regarding Animals as Food*

##### Biotechnological Science - Context and Ethics

Fons Werrij & Frans W. A. Brom

*Societal Aspects of Genomics Research. The Design and Implementation of a Research Programme*

Ulrich Nitsch

*Ethical Reflection and Action in Today's Academic Community*

Gitte Meyer & Peter Sandøe

*Public Debate and Scientific Ignorance*

##### Organic Food

Mirjam Matze, Ton Baars, Edith Lammerts van Bueren & Henk Verhoog

*Consumer Perception of Naturalness Related to Organic Food*

Christian Stenbak Larsen

*Environmentalism and the Discourse of Health in Relation to Organic Food*

Lillian Auberson-Huang

*Values and Transgenic Plants*

Raffaele Zanolli & Simona Naspetti

*Values and Ethics in Organic Food Consumption*



### Public Perception of Biotechnology

Jürgen Hampel & Uwe Pfenning

*Public Perception of Agricultural Biotechnology*

Bruna De Marchi & Luigi Pellizzoni

*The Complexity of Public Perception of Transgenic Food*

Richard Braun

*The Public Perceptions of Agricultural Biotechnology in Europe: Ways forward*

### Food and Identity

Assya Pascalev

*You Are What You Eat: The Moral Challenges of Food Biotechnology*

Mariette A. van den Hoven & Marcel F. Verweij

*"Eating for Two": Should One Accept Limits to a Pregnant Woman's Moral Responsibility Concerning Healthy Nutrition?*

Heike Baranzke, Hans Werner Ingensiep & Franz-Theo Gottwald

*Man Is/Eats Interpretation. What Food Ethics Can Learn from History*

### Round Table Workshops on Ethical Tools

Organiser: Bart Gremmen

### Poster Exhibition

## **14.30 Second parallel workshop session**

### Ethics and Economy

Paola Bertolini & Filomena Guidone

*Ethical Concerns, Economic Interests and Trade. The Case of Italian Vegetable Production in the German Market*

Arnolds Skele & Imants Ziemelis

*Animal Welfare in Ethical and Economical Aspects*

Linda Fulponi

*Ethics and Economics of Labelling: the Case of Genetically Engineered Foods*

Veronica Alampi Sottini, Chiara Franciosi, Ginevra Virginia Lombardi & Silvio Menghini

*Ethics and Globalization*

### Regulating and Administrating Biotechnology

Kathrine Hauge Madsen, Preben Bach Holm, Jesper Lassen & Peter Sandøe

*Ranking of Genetically Modified Plants According to Familiarity*

Karsten Klint Jensen, Birgitte Rasmussen, Kristian Borch & Klemens Kappel

*How Should Ethics be Integrated in the Approval Process of Genetically Modified Crops?*

Susan Carr & Sue Oreszczyn

*Test of a Systemic Framework for Incorporating Ethics and Values into Biotechnology Policy Decisions*

Ariane Willemsen

*Ethics Committees and Their Role in the Public Debate*

### Beyond Animal Welfare

Robert Heeger & Frans W. A. Brom

*Beyond Feeling Well: Our Direct Duties towards Animals*

Sabjorn Forberg

*Painless Harm to Farm Animals*

Dirk Lips, Johan De Tavernier, Eddy Decuypere & Jacques Van Outryve

*Ethical Objections to Caesareans: Implications on the Future of the Belgian White Blue*

Lino Paula & Tjard de Cock Buning

*Animal Biotechnology Ethics Policy - The Dutch Experience*



### Public Participation

Barbara Skorupinski

*Debating "Novel Food": A Comparison of Public Participation Processes on Genetically Modified Food in Four European Countries*

Matthias Kaiser & Sigrid Skavlid

*Why Ola and Kari Nordmann Do Better than All Professors - Reflections on Two Norwegian Consensus Conferences on Genetically Modified Food Products*

Vikki Fraser

*Agri-Cultural Biotechnology: Whose Utopia? Whose Story?*

Janus Hansen & Jesper Lassen

*Consensus Conferences and Democracy*

### Teaching Ethics

Pernille Kaltoft & Peter Sandøe

*Teaching Ethics in Agricultural University*

Elena Camino & Laura Colucci

*A Meal of Shrimps... and Its Hidden Costs*

Alexandru Rodica

*Professional Ethics as Study Matter in Higher Food Education Curricula*

Emmanuel Jolivet, Anne-Lucie Raoult-Wack & Dominique Vermersch

*Ethics Training Requirements for Engineers and Scientists. The Case of INRA and CIRAD, Two Applied Research Institutions*

### National Perspectives on Biotechnology

Joachim Scholderer

*Consumer Information or Direct Product Experience? Alternative Information Policies and Their Effects on Consumer Acceptance of GM Foods*

Ann Reisner & Gerry Walter

*Challenges to Agricultural Biotechnology in the US*

Francoise Bieri

*A Participative Decision-Making Process for Biotechnology Applications in Food: The Swiss Experience*

Bernard Reber

*Are the GMOs Better Evaluated in Switzerland than in France?*

### Poverty and the Third World

Pedro Boccoardo

*Science, Ethics and Poverty*

Francesco Garbati Pegna & Marco Vieri

*Remarks on Ethics in Design and Use of Farm Machinery in DC through Two Mechanization Projects*

Fabio Manzione

*The Fundamental Human Right to Food*

Anne-Lucie Raoult-Wack & Nicolas Bricas

*Ethical Issues Related to Food Sector Evolution in Developing Countries: About Sustainability and Equity*

### Poster exhibition

## **Friday, October 5**

### **11.30 Third parallel workshop session**

#### Ethical Methods

Ben Mepham & Kate Millar

*The Ethical Matrix in Practice: Application to the Case of Bovine Somatotrophin*

Cor van der Weele & Volkert Beekman

*Ethical tools: Value Clarification in Action*

Volkert Beekman & Cor van der Weele

*Knives Are Not the Only Cutlery: Methodical Pluralism in Agricultural and Food Ethics*



### Individual versus Species

Solveig Lindholm

*The Applicability of an Ecocentric Ethic*

Bart Gremmen & Paul Koene

*De-Domestication and the Ethics of Practices*

Bernice Bovenkerk, Jan Vorstenbosch, Frans Stafleu & Ronno Tramper

*To Act or Not to Act? Moral Aspects of Sheltering Animals from the Wild*

### Stakeholders and Biotechnology

Kate Millar

*Stakeholder Dialogue in Biotechnology Development: Potential Ethical Issues Raised by Bioremediation Biotechnologies*

Shane Morris, Douglas Powell, Cathal Cowen & Catherine Adley

*Transgenic Foods in the Irish Public Sphere*

Jesper Lassen & Andrew Jamison

*NGOs as Conveyors of Ethics in the Policy Process*

### Food and Trust

Napoleon K. Juanillo, Jr.

*Frames of Public Discourse on Biotechnology*

Bente Halkier & Lotte Holm

*Food Consumption between Routine and Politics - On Consumers' Trust in the Food Sector*

Freek de Meere

*Images of Food Safety: Public Opinion and Policy Strategies at Odds?*

### Food Quality

Giuliana Parisi, Massimo Mecatti, Paola Lupi, Giulia Zampacavallo & Bianca Maria Poli

*Fish Welfare and Quality: Experimental Results for Rearing and Harvesting Practices*

Gary Goldberg

*The American Farmer, Genetically Modified Crops and Food Quality: Government Perception versus Consumer Perception*

Hans Dagevos & Volkert Beekman

*Unique Foods? Emotional and Ethical Aspects of Food Quality*

### Round Table Workshops on Professional Ethics

Organisers: Abbo P. W. de Wit & Frans R. Stafleu

### Poster exhibition

## **14.30 Fourth parallel workshop session**

### Professional Ethics

Angela Mariani & Elena Viganò

*Remarks on Codes of Conduct in the Production and Trade of Foodstuffs*

Frans R. Stafleu

*The Ethics of Cattle Breeding. The Development of a Company Policy on Ethics*

Walter Schiebel & Siegfried Pöchtrager

*Corporate Ethics as a Factor for Success - The Measurement Instrument*

Abbo de Wit & Reinout Woittiez

*Ethics in Professional Practice. Are Professionals Sufficiently Equipped to Manage Ethically?*

### Intensive Animal Husbandry

Tjard de Cock Buning

*From Ethical Analysis to Political Decisions: The Case of Animal Transport*

Alison Burrell

*Ethical Issues Surrounding Animal Disease Control Programmes*

Michael C. Appleby

*Farm Animal Welfare: Cost, Price and Value*

Bart Gremmen & Henk van den Belt

*A Self-Inflicted Plague? The Moral Legacy of Recent Outbreaks of Foot-and-Mouth Disease*



### Risk and Uncertainty

Shahrar Ali

*Assessing the Risk of GMO Releases in the EU*

Karsten Klint Jensen

*The BSE-Story in UK: A Case of Decision-Making under Great Uncertainty*

Beniamino T. Cenci Goga, Francesca Clementi, Dino Miraglia & Antonio Vizzani

*How Safe Is Safe?*

Mario Giampietro

*Complexity and "Quality" in the Food System: Handling Incommensurability, Uncertainty, and Legitimate Contrasting Views in the Process of Decision-Making*

### Biotechnology Policy

Sylvie Pouteau

*Beyond Substantial Equivalence: Ethical Equivalence and the Social Debate*

Catherine Larrère

*Genetically Modified Organisms (GMOs) and the Precautionary Approach: Ethical Issues in Policy Making*

Meira Hanson

*The Precautionary Principle: What It Is and What It Isn't*

Donald M. Bruce

*A Social Contract for Biotechnology - Shared Visions for Risky Technologies?*

### Functional Foods

Franck L.B. Meijboom, Frans W. A. Brom & Marcel F. Verweij

*From Conceptual Questions to Ethical Problems*

Ruth Chadwick & Miltos Liakopoulos

*Functional Foods: An Interdisciplinary Approach*

Wim Verbeke & Jacques Viaene

*Consumer Attitude towards Functional Foods: Exploring Knowledge, Perception and Acceptance*

Michiel Korthals

*The Struggle over Functional Foods: Justice and the Social Meaning of Functional Foods*

### Sustainable and Organic Farming

Jan Schakel

*Sustainable Farm Animal Breeding and Cultural Differences*

Stine B. Christiansen & Kim Holm Boesen

*Organic Farming and Animal Welfare - Common Goals or Contradictory Terms?*

Vonne Lund

*Organic Farming and the Human - Farm Animal Relation Seen as a Contract*

Hugo Fjelsted Alrøe & Erik Steen Kristensen

*Values in Organic Farming and Their Implications*

### Poster exhibition



## Conferences & Courses

### September 2001

- September 4–6**      ***Sustainable Food Security for All by 2020***  
Bonn, Germany, organised by the International Food Policy Research Institute (IFPRI), Washington DC, USA. More information, website: <http://www.ifpri.org/2020conference/>
- September 8-13**      ***Biomedicine Within the Limits of Human Existence. Bioethics: an Interdisciplinary Challenge and a Cultural Project***  
Davos, Switzerland. More Information, website: <http://www.esf.org/euresco/01/hc01175a.htm>
- September 11–12**      ***Integrated Management Systems for Livestock***  
Selwyn College, Cambridge, UK, organised by the British Society of Animal Science (BSAS). More information, website: <http://www.bsas.org.uk/meetings/occasion.htm>
- September 12**      ***Consumer Concerns about Animal Welfare and the Impact on Food Choice***  
Brussels, Belgium. More information: Gemma Harper, Department of Agricultural and Food Economics, The University of Reading, PO Box 237, Reading RG6 6AR, United Kingdom, e-mail: [g.c.harper@reading.ac.uk](mailto:g.c.harper@reading.ac.uk), phone + 44 118 987 5123 ext. 7702, fax + 44 118 987 6467.
- September 13-15**      ***9<sup>th</sup> International Conference on Human-Animal Interaction***  
Rio de Janeiro, Brazil. More Information, website: <http://www.iahaio.org>, e-mail: [rio2001@l-et-e.fr](mailto:rio2001@l-et-e.fr)
- September 21-22**      ***Beyond Cloning: Protecting Humanity from Species-Altering Procedures***  
Conference at Boston University, United States. More information, see website: <http://www.bumc.bu.edu/www/sph/lw/website/index.htm>.
- September 23–25**      ***Communicating the Future: Best Practices for Communication of Science and Technology to the Public***  
Gaithersburg, Maryland, USA, organised by the National Institute of Standards and Technology. More information, website: [http://www.nist.gov/public\\_affairs/bestpractices/practices.html](http://www.nist.gov/public_affairs/bestpractices/practices.html)
- September 26-28**      ***Transplant Evaluation - Quality, Costs and Bioethics***  
International Scientific Congress in Barcelona. More information: Grup Serveis, Organitziacio de Congressos, Valencias, 261, 08007 Barcelona, phone 934881177, e-mail: [grup@grupserveis.com](mailto:grup@grupserveis.com)

### October - December 2001

- October 12-14**      ***Science goes Ethics***  
Course for students and young researchers until 35 years old. More information: Doris Brosch, Evangelische Akademie Tutzingen, Schloßstr. 2+4, D-832327 Tutzingen, website: <http://www.ev-akademie.tutzingen.de>, e-mail: [brosch@ev-akademie.tutzingen.de](mailto:brosch@ev-akademie.tutzingen.de)



- October 17-20**      ***Innovations for an e-Society. Challenges for Technology Assessment***  
 Berlin, Germany. More Information: Forschungszentrum Karlsruhe, Institut für Technikfolgenabschätzung und Systemanalyse (ITAS), Postfach 3640, D-76021 Karlsruhe, Germany.
- October 22–24**      ***Animal Welfare Consideration in Livestock Housing Systems***  
 Polish Committee of Agricultural Engineering, Agricultural University of Wrocsaw, Technical University of Zielona Góra. More information: <http://www.pz.zgora.pl/cigr/>
- October 29-30**      ***The Future of Food Biotechnology Examination and Analysis of Biotech Developments in Domestic and EU Regulation and Policy of Food, Commodity Crops and Other Agricultural Products***  
 Renaissance Washington DC Hotel, Washington, DC, organised by FDLI. More information, website: [http://www.fdli.org/conf/food\\_biotech/description.html](http://www.fdli.org/conf/food_biotech/description.html)
- November 15-16**      ***The Role of Precaution in Chemicals Policy***  
 Vienna, Austria. More information: Federal Ministry for Agriculture, Forestry, Environment and Water Management, Stubenbastei 5, A-1010 Vienna, Austria, Ms. Cornelia Mader, phone + 43 1 51522 2337, fax + 43 1 51522 7334, e-mail: [cornelia.mader@bmu.gv.at](mailto:cornelia.mader@bmu.gv.at)
- November 24–26**      ***Bürgerkonferenz Streitfall Gendiagnostik***  
 First German-wide consensus-conference on genetic testing. Deutsches Hygiene-Museum Dresden. More information: Silke Schicktanz, Deutsches Hygiene-Museum Dresden, Lingnerplatz 1, D-01069 Dresden, Germany, e-mail: [schicktanz@dhmd.de](mailto:schicktanz@dhmd.de), website: <http://www.buergerkonferenz.de>
- November 29-30**      ***1<sup>st</sup> International Nutrigenomics Conference***  
 Noordwijk aan Zee, The Netherlands. More Information, e-mail: [ommen@voeding.tno.nl](mailto:ommen@voeding.tno.nl)
- December 5-6**      ***Neue Agrarpolitik – Hoffnung für die Kulturlandschaft***  
 Evangelische Akademie Tutzingen. More information, website: <http://www.ev-akademie-tutzingen.de>, e-mail: [info@ev-akademie.tutzingen.de](mailto:info@ev-akademie.tutzingen.de)
- December 6-9**      ***Experimentalkulturen: Konfiguration zwischen Lebenswissenschaften, Kunst und Technik (1830-1950)***  
 Max-Planck-Institut für Wissenschaftsgeschichte, Berlin, Germany. More information, website: <http://www.mpiwg-berlin.mpg.de/>

## **2002**

- January 17-20**      ***Impunity, Justice and Development: Ethics and Policy***  
 6th International Conference on Ethics and International Development International Development Ethics Association (IDEA), National Autonomous University of Honduras, Tegucigalpa, Honduras. More Information, website: <http://www.carleton.ca/idea/newsletter>, David A. Crocker, e-mail: [dc134@umail.umd.edu](mailto:dc134@umail.umd.edu), or Ramon Romero, e-mail: [rrromero@edured.net](mailto:rrromero@edured.net)
- April 7-8**      ***What Price Cheap Food?***  
 University of York, UK, organised by the British Society of Animal Science (BSAS). More information, website: <http://www.bsas.org.uk/meetings/occasion.htm>



April 8-10

***Applied Ethology in the Laboratory, on the Farm and at Home & Ethical Issues in Animal Science***

Second Joint Annual Meeting of the International Society of Applied Ethology (ISAE), British Society of Animal Science (BSAS) and World Poultry Science Association (WPSA), University of York, UK.

Building on the foundation of the first joint meeting of the ISAE, BSAS and WPSA, the YORK 2002 ANNUAL MEETING promises an exciting and varied programme with a dual theme. The city of York provides the spectacular backdrop to the conference venue which has already proved itself to be the ideal location for the joint meeting. Sessions of direct interest to ISAE delegates will include:

- Applied Ethology in the Laboratory, on Farm and at Home (ISAE session) Participants interested in this session are invited to contact the ISAE Regional Secretary ([Jon.Day@adas.co.uk](mailto:Jon.Day@adas.co.uk));
- Ethical Issues in Animal Science (Joint ISAE/BSAS session) This session aims to consider pertinent ethical issues in animal science. Topics will include 'animal rights and wrongs', 'the ethical basis of animal experimentation' and 'the ethical basis of intensive livestock production'. Due to the impact of Foot and Mouth Disease in the United Kingdom, this session was cancelled in 2001, but it is with great pleasure that the speakers have been invited to reconvene in York in 2002.
- Free Communications (ISAE session). The meeting provides the ideal springboard for emerging young scientists to present their work to a larger audience of peers for the first time and as platform for the more established leaders in the field of applied ethology.
- What Price Cheap Food (Satellite Meeting of the BSAS). A satellite meeting will be held that brings together farmers, consumer representatives, supermarket managers, legislators, animal welfare groups and environmentalists to discuss the implications of a cheap food policy. Speakers will tackle issues such as how food prices are determined, externalities, farm income and security, animal welfare, environmental impact and food safety.

The submission of one page summaries is invited by the deadline of 31st October, 2001. Instructions for authors will be available on the ISAEUK website soon. More information, website: <http://www.isaeuk.fsnet.co.uk/>

July 5-12

***Humankind/Nature Interaction: Past, Present and Future***

XVth Congress of the International Union of Anthropological and Ethnological Sciences. Florence, Italy. More Information, website: <http://www.icaes-florence2003.com>, e-mail: [secretariat@icaes-florence2003.com](mailto:secretariat@icaes-florence2003.com), Prof. B. Chiarelli, Institute of Anthropology, University of Florence, phone + 39 055 2398065, fax + 39 055 283558.

July 22-27

***European Culture in a Changing World: Between Nationalism and Globalism***

The 8th International Conference of The International Society for the Study of European Ideas (ISSEI), The University of Wales, Aberystwyth. More Information: Dr. Daniel Meyer-Dinkgrafe, e-mail: [dam@aber.ac.uk](mailto:dam@aber.ac.uk), fax + 44 1970 622831, Department of Theatre, Film and Television Studies, Perry Williams Building, Penglais Campus, Aberystwyth, Ceredigion SY23 3AJ, Wales UK.

August 4-8

***4<sup>th</sup> World Congress on Alternatives and Animal Use in the Life Sciences***

Boston Massachusetts, USA. More Information, e-mail: [dpease@hsus.org](mailto:dpease@hsus.org)

August 28-31

***Exploring Diversity in the European Agri-food System***

The tenth congress of the European Association of Agricultural Economists (EAAE), Zaragoza, Spain. The deadline for submission of contributed papers is January 30, 2002. The deadline for poster submission is April 30, 2002. More information: J.C. Bureau, Program Committee EAAE Congress, INRA-ESR, BP1, 78850 Thiverval-Grignon, France, e-mail: [eaae.papers@grignon.inra.fr](mailto:eaae.papers@grignon.inra.fr), website: <http://www.lei.dlo.nl/EAAE/activities/indexa.htm>



## **2003**

**July 16-20**

### ***Feeding the World: Opportunities without Boundaries***

12th World Congress of Food Science and Technology (IUFoST Congress XII), which will take place in Chicago, Illinois, USA. More information, website: <http://www.worldfoodscience.org/congress/overview.html>



## Institutes & Projects

**All members of EurSafe are invited to send descriptions of projects or institutes in the field of agricultural and food ethics, which will be presented in the EurSafe Newsletter. Please send descriptions of about half a page to Silke Schicktanz, e-mail: [si\\_schi@gmx.net](mailto:si_schi@gmx.net)**

### Center for Biotechnology in Global Society (CBIGS)

#### **Please Notice:**

**The information below is provided by CBIGS. The editors of this Newsletter believe that it is important to inform you about this center but this does not imply that EurSafe agrees with the ideas of CBIGS or its director.**

#### ***Rationale and Relevance***

Future developments in the life sciences and biotechnology will have major impacts on all aspects of society. At the same time, society will have significant impacts on biotechnology and the life sciences. Universities must do more to understand and manage the interaction between biotechnology and society. This is important given the fact that billions of dollars have already been invested in the scientific infrastructure to support new developments in this important area. Many private and public sector leaders have recognized the urgent need for multidisciplinary approaches to address the complex challenges and opportunities that biotechnology presents.

This Center for Biotechnology in Global Society (CBIGS) will evaluate and facilitate the appropriate integration between biotechnology and society. NC State University will be the lead institution, in partnership with other campuses of the UNC system, the state's private universities, and academic institutions from around the world. North Carolina already has world-renowned expertise in this scientific area and one of the largest concentrations of technological leadership in the world – particularly in the Triangle region. This center will provide national and international leadership in a number of important initiatives as we enter the 21st century – a century that has already been called “the Century of Biology.”

Biotechnology is a complex and controversial area that will have significant impacts on many aspects of society. Some of the most significant decisions will involve a wide range of inter-related social, economic, ethical, and political issues that will arise as this area becomes more widely established. This Center will integrate the latest insights

about these and other issues with the best scientific knowledge about emerging applications and issues.

The Center will be unique in taking an integrated, holistic focus on the full range of biotechnology applications involving microorganisms, plants, animals, and humans. We will provide the most credible information about how biotechnology is impacting medicine, food, and the environment. These applications will become even more interconnected (e.g., through genetically enhanced foods so certain groups can obtain more optimal nutrition.) Our approach will truly be interdisciplinary – involving the social sciences and humanities as full partners to the physical and biological sciences.

Society is already asking a number of important questions about biotechnology that will require credible and timely answers. The Center will address the following types of questions:

- What are the benefits and risks for human health from foods with ingredients developed through biotechnology?
- What are the benefits and risks for the natural environment of crop plants, trees, and microbes developed through biotechnology?
- What are the ethical and safety issues associated with transgenic animals?
- What are the social impacts and ethical implications of the increasing knowledge about the human genome, as well as techniques for human modification?
- What are the social, ethical and legal implications of the new diagnostic tools and therapies developed through modern biological sciences?

These and other questions must be addressed in an open and effective manner. The future of biotechnology depends upon societal recognition that the science is safe, beneficial, and ethical. Likewise, scientists, regulators, and industrial leaders need to become more sensitive and responsive to public concerns about biotechnology.

Communication programs will be necessary to bring all parties together in a timely, innovative and proactive manner. Research has shown that university scientists are very credible sources of information for the public and key decision makers. Social science research and policy analysis will also be important for



understanding and addressing the full range of impacts and implications of biotechnology for society.

### **Centre Goal and Objectives**

The overall goal of the Center for Biotechnology in Global Society (CBIGS) will be to ensure that public and private decisions about biotechnology are based on accurate, timely, and relevant information about the full range of issues and implications from this rapidly developing area. This, in turn, should lead to greater realization of benefits from biotechnology and sustained support for the life sciences. Interdisciplinary research and communication will be required to meet this goal. The following objectives will support this goal:

- *Develop a multi-disciplinary network of scientists and educators to serve as sources of information on a variety of topics related to the impacts and implications of biotechnology.*

This network will include faculty from NC State University, other UNC campuses, and private universities. We also plan to partner with scientists from other leading universities – particularly in Europe and the developing world. The Center will use Internet communication and other modern tools to gather and disseminate credible information about a full range of biotechnology issues. Opportunities will be provided for facilitating interaction among scholars and scientists from around the world – both in-person and via the Internet.

- *Collect, evaluate, and catalog information about biotechnology.*

The Center will serve as an information clearinghouse to provide the interested public and key decision makers with the most accurate, credible and timely information available about biotechnology and the life sciences. New materials will be developed to fill gaps in information and address emerging issues. The Center will administer a grant fund for university investigators.

- *Develop and implement innovative communication and public involvement programs that meet identified needs of various target audiences.*

This Center will: develop and disseminate written and audiovisual materials; answer inquiries from the media or public officials; organize and host special events (such as training sessions and symposia); promote stakeholder dialogue; and provide expert advice to decision makers on a full range of scientific and social issues.

- *Provide the infrastructure and capability for social science research and other data collection activities, such as: educational*

*needs assessments; attitude surveys; market research studies; and public policy analysis.*

The Center will pay particular attention to the full range of social, economic, and environmental impacts of biotechnology, as well as ethical considerations. The Center will also organize processes and mechanisms to ensure ongoing dialogue among key stakeholders, including the interested public.

The Center will be able to design and conduct a number of important and innovative programs. For example, initial plans are underway for the following:

- Conduct ongoing public opinion polls and focus groups that will explore a wide range of issues resulting from the application of biotechnology in food production and human health care. This research will examine the views of citizens and opinion leaders from North America, Europe, Asia, and elsewhere.
- Publish a regular series of electronic policy briefs and educational fact sheets that explore the most important and complex issues associated with all applications of biotechnology. These will be targeted toward public officials, the media, interest groups, and others.
- Hold regular conferences and workshops that will enhance the knowledge and skills of key groups of scientists, regulators, journalists, educators, and others. These could involve training programs focused on topics such as: social implications of biotechnology; public policies and regulations; media training and communication; and bioethics.
- Design and maintain a major Internet website. This will serve as a central hub that will enable members and outside stakeholders to obtain the most timely and credible information on a wide range of subjects. Interactive communication opportunities will also be provided for members and faculty.
- Establish an extensive resource center and library. Dr. Hoban will provide over 500 relevant books and several file cabinets worth of documents to set up a reading room that will be available to NC faculty and students, as well as members. Ultimately some of the key publications will be scanned and converted into PDF files where they will be available through the Center website.
- Facilitate personnel exchange programs and provide ways for visiting scholars from around the world to visit the Center for ongoing collaboration and professional development. In particular, we will work with other local groups to make it possible



for key leaders from around the world to spend time in the Research Triangle Park area where they can share knowledge with the world's leading universities, biotechnology companies and others. Our close proximity to Washington, DC will also be an advantage for visitors.

### **Center Leadership and Structure**

Thomas J. Hoban, Ph.D. will serve as Center director. Dr. Hoban is a professor of Sociology and Food Science in the College of Agriculture and Life Sciences. He has developed and led a number of research and outreach initiatives examining the social implications and public perceptions of biotechnology. His work over the past decade has been widely recognized by government, industry, and others around the world. Dr. Hoban serves on the USDA's Advisory Committee on Agricultural Biotechnology, is a distinguished advisor to the Council for Biotechnology Information, and plays a number of other internationally prominent roles. He also serves on the Ethical/Societal/Cultural advisory committee of the NC Genomics and Bioinformatics Consortium.

Over his career, Dr. Hoban has worked closely with many of the potential Center members, including almost all the leading associations that deal with agriculture or biotechnology. He has even conducted membership satisfaction surveys for several leading ones (Food Marketing Institute, National Retail Federation, National Food Processors Association, and others). He has learned a lot from these leading associations about how to recruit and retain members.

Dr. William B. Clifford has agreed to serve as the Chief Operating Officer for the Center. He has served as Head of the Department of Sociology and Anthropology at NC State University for the past decade (and as associate head before that). Dr. Clifford is an excellent and skilled administrator who will be responsible for the Center's budget, personnel, and related issues.

A scientific board of directors and policy advisory committee will be developed for this center. The board of directors will be responsible for determining Center priorities for programs and other activities. Active involvement from a number of groups will help ensure that Center programs and information are timely, relevant, and credible. Some of the groups likely to play a role in the guiding Center's programs include industry, government, nonprofit associations, and professional societies.

This CBGS will be a virtual university bringing together leading experts representing the various sciences and issues. We will establish an interdisciplinary network of faculty

NC State University; other UNC campuses, the state's private universities, and partners from around the world. A number of leading faculty from a range of disciplines have already expressed their willingness to participate in this effort. Responsibility for organizing and directing the CBGS will rest with an interdisciplinary team of faculty, as well as outside partners such as the N.C. Biotechnology Center (NCBC), and other interested organizations. Efforts will be coordinated with other UNC-system centers and programs, as well as with the NC Genomics and Bioinformatics Consortium. We also will make special connections to universities in other states and countries.

### **More Information**

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## **GM Corn Set to Stop Man Spreading his Seed**

### **Is this a hoax?**

Scientists have created the ultimate GM crop: contraceptive corn. Waiving fields of maize may one day save the world from overpopulation. The pregnancy prevention plants are the handiwork of the San Diego biotechnology company Epicyte, where researchers have discovered a rare class of human antibodies that attack sperm. By isolating the genes that regulate the manufacture of these antibodies, and by putting them in corn plants, the company has created tiny horticultural factories that make contraceptives. *"We have a hothouse filled with corn plants that make anti-sperm antibodies"*, said Epicyte president Mitch Hein. *"We have also created corn plants that make antibodies against the herpes virus, so we should be able to make a plant-based jelly that not only prevents pregnancy but also blocks the spread of sexual disease"*. Contraceptive corn is based on research on the rare condition, immune infertility, in which a woman makes antibodies that attack sperm. *"Essentially, the antibodies are attracted to surface receptors on the sperm"*, said Hein. *"They latch on and make each sperm so heavy it cannot move forward. It just shakes about as if it was doing the lambada"*. Normally, biologists use bacteria to grow human proteins. However, Epicyte decided to use corn because plants have cellular structures that are much more like those of humans, making them easier to manipulate. The company, which says it will not grow the maize



near other crops, says it plans to launch clinical trials of the corn in a few months.

[Source: R. McKie (science editor), *The Observer* (2001) September 9].

## A Long Journey Ahead for Golden Rice

Genetically modified rice with additional vitamin A, the Golden Rice, has become the good story linking genetically modified plants to the helping of poor and malnourished in the third world. This modern tale is, however, subject to different interpretations. The journey towards reality will become long and hard.

Ten years ago scientists at Swiss public institutions started developing a rice plant which would contain more vitamin A and more accessible iron than rice normally does. The idea was to modify a plant, thereby solving an important problem: Deficiency diseases in the third world which are the result of a lack of vitamin A and iron in food. Ten years from now, such plants may be found growing in real fields - in the third world and elsewhere. Maybe or maybe not.

The Golden Rice is not yet fully developed, but it appears in almost every discussion about genetically modified plants. It is a peculiar plant with which its scientific masterminds have tried to build an unconventional link between gene technology and humanitarian needs. It now plays a leading part in a real, modern tale. The moral of the tale is not clear-cut. One can choose one's own moral stand-point. That is readily done by scientists, environmental organisations and commercial companies alike.

### A Triangle

Will the Golden Rice be a remedy for deficiency diseases among the poor and malnourished in the third world? Will it prevent the sighted becoming blind? Will it show the importance of publicly funded research taking responsibility for plant improvement? Ingo Potrykus, Professor Emeritus at the Swiss Federal Institute of Technology, and one of the main scientists behind developing the plant, hopes for all of this.

Or will the Golden Rice with its golden prospects only help the biotechnology industry in obtaining public acceptance of genetically modified plants in general and in the current economic conditions, in which biotechnological patents give the companies strong exclusive rights? This is the fear of Benny Haerlin,

International Greenpeace Co-ordinator. Ingo Potrykus is indignant that Greenpeace have not accepted Golden Rice and are not ready to support field trials. Potrykus says: *"Among them I have given up finding responsible talking partners"*.

On the other hand he is not happy with the way in which biotechnology companies have embraced the Golden Rice. They are using it for their own PR purposes, giving the message that gene technology can save lives. The notion that gene technology can be used for good purposes is, however, only one part of Potrykus' own moral, one that is linked to his strong belief in using hard science and technology to solve problems. The other part of his moral is about societal responsibility and the existence of humanitarian tasks which the market forces are not fit to handle. He emphasises the importance of Golden Rice not being developed by commercial funding or by commercial motives. *"If anybody has a good solution as to how I can stop multi-national companies mis-using the Golden Rice for their own purposes then give it to me. I don't want to become a part of PR campaigns for the companies"*, says Ingo Potrykus.

### The First Ten Years

The first ten years of the project have been spent on inserting several genes into a rice variety which has no agricultural importance itself. Some of these genes increase the amount of betacarotene in the plant. Beta-carotene gives the Golden Rice its colour and converts into vitamin A in the human body. Other inserted genes will increase the amount of iron and enhance its accessibility. Ingo Potrykus points to the following world-scale estimates:

- 30% of the world population suffer vitamin A deficiency, which in the worst cases can cause blindness;
- 13% of the world population do not get enough iron.

Both deficiencies are most common in areas where rice is the main food source.

No less than 70 patents - whose holders may object to their use or collect licence fees - have been involved when developing Golden Rice. However, if the plant is to help poor people, it must be without costs. Ingo Potrykus hopes that this problem may have been solved through the transfer of the plant's patent rights to a company called Syngenta, which is formed by two biotech giants, Novartis and Zeneca. Negotiating with the many patent holders will, therefore, become the head-ache of Syngenta. The transfer of the rights is made under a vow not to claim licence fees from public research institutions around the world when the patented rice is used to develop local varieties



of the Golden Rice. Furthermore, a promise has been made to give a free supply of plants or seeds to families with an annual income of less than USD 10.000.

*"In some cases the public is given the impression that the poor have received this as a gift from the companies. This is not true. We make an attempt to share the market between us, making room for both commercial and humanitarian aims. I don't know if it will work well enough to act as a model for other attempts to use gene technology for humanitarian purposes, but I am an inveterate optimist",* says Ingo Potrykus. He estimates that it will take another six years to get the Golden Rice to the poor peasants in the third world. The needs of South East Asia, China, India, Africa and Latin America must be analyzed locally. If these analyses are positive, local varieties of the Golden Rice have to be developed. Then risk assessments will follow. Parallel assessments and considerations will include:

- How much Golden Rice must be eaten to supply the needs of vitamin A and iron?
- Is the productivity of the Golden Rice higher or lower than of other rice varieties?

#### **Criticism: Hypothetical Needs**

Benny Haerlin, Greenpeace, has visited Ingo Potrykus and had talks with him about the Golden Rice. He estimates that at least another eight years of development work and field trials are needed before the plant will be available. *"If everything goes smoothly, which usually is not the case in this kind of work",* he adds.

Benny Haerlin is in no doubt about Potrykus' humanitarian motives, but is of the opinion that the motives lack contact with reality. He points to the fact that both WHO and UNICEF have programmes to fight vitamin A deficiency in the third world. Several technical solutions are in use. Among them are

adding vitamin A to common food-stuffs, distribution of vitamin pills and support for growing vegetables which are particularly rich in vitamin A. *"The work on the Golden Rice is done in parallel with, and not integrated into these programmes. My impression is that the Golden Rice is of practically no interest to people who are engaged in fighting vitamin A deficiency",* he says.

According to Benny Haerlin, the Golden Rice covers totally different needs. It serves the wishes of the companies and their scientific base for a good PR case which can be used to present genetically modified plants as useful for ordinary people and as having a moral aspect. The usefulness is, however, hypothetical and it will not persuade Greenpeace to ease their reservations regarding the release of genetically modified plants into the environment, he states. *"The Golden Rice is written about as if it had already saved thousands of lives. In my view this is cynical abuse of human misery as this plant will have no significance within the next decade to people lacking vitamin A",* Benny Haerlin points out.

#### **From Rice to Other Plants**

Ingo Potrykus and his colleagues continue to work on their good cause - still with noncommercial funding. The next round is about transferring the genes, which are already transferred to rice, to Cassava, Banana, Sweet Potatoes and Wheat. Many years of technical challenges lie ahead. Then there are challenges of interpretation, which may be summed up in this question of many possible answers: How will the tale end and what is its moral?

*Gitte Meyer, Centre for Bioethics and Risk Assessment (Copenhagen Denmark)*



## Legislation & Policy

### ***The Commission on Intellectual Property Rights (CIPR)***

An initiative of the UK Government. It is looking at how national and international intellectual property rules and practices might be improved to take greater account of the needs and interests of poor people and developing countries. More information, website: <http://www.iprcommission.org>

### ***Royal Commission on Genetic Modification in New Zealand***

This commission released a new report, which says GMOs should be proceeded but with caution. More information, website: <http://www.gmcommission.govt.nz>

### ***Canadian Biotechnology Advisory Committee***

CBAC released an interim report on improving the regulation of genetically modified (GM) foods and other novel foods in Canada. The report makes five main and 24 supplementary draft recommendations aimed at improving the federal regulatory system for GM and other novel foods. It also addresses key challenges related to public information, informed choice and environmental stewardship. The report is available through CBAC's Web site at [http://www.cbac-cccb.ca/gmfood\\_interim\\_english.htm](http://www.cbac-cccb.ca/gmfood_interim_english.htm) and can be obtained by contacting the toll free number at + 1 866 748 2222 and TTY + 1 866 835 5830.

### ***UK Change in Agricultural and Environmental Governance***

A new government department, Department for Environment, Food and Rural Affairs (DEFRA) has been created in the UK. The new Department brings together:

- The Environment Protection Group from the former Department of Environment, Transport and the Regions (DETR);
- The Wildlife and Countryside Directorate from the former DETR;
- All the functions of the former Ministry of Agriculture Fisheries and Food (MAFF); and

- Responsibility for certain animal welfare issues and hunting with hounds from the Home Office

DEFRA will sponsor a number of important agencies and Non-Departmental Public Bodies and has a range of statutory and non-statutory advisory bodies. More information, website: <http://www.defra.gov.uk>

### ***European Commission Debate: Food Quality in Europe***

"Consumers nowadays expect their food to be safe, wholesome, and tasty. As policy makers, we are seeking ways to push quality up the agenda in dialogue with consumers and stakeholders. We are focusing on how to driven single market in foodstuffs", David Byrne said explaining the initiative.

Brussels round table on food and agriculture: European commission wants to take better account of the public's ethical and ecological concerns 26 July 2001.

EU commissioners Franz Fischler (agriculture, rural development and fisheries) and David Byrne (health and consumer protection) met today (26 July 2001) in Brussels with consumers, farmers, the food industry, trade representatives, scientists and organic farming associations for a round-table discussion on agriculture and food. The round table is part of a Commission action plan for wide-ranging public debate on society's expectation of food and agricultural policy. With this initiative, the commission would like to see a discussion on what people expect of farming and the produce they eat. Mr Fischler stressed that the Brussels round table had highlighted the need to take better account of European citizen's ethical and ecological concerns. In Mr Byrne's view the Brussels discussion had again made it patently clear that today's consumers not only want more detailed information on food they eat but also are increasingly prepared to pay for food-quality produce.

For the full report see website: [http://europa.eu.int/comm/dgs/health\\_consumer/library/press/press175\\_en.pdf](http://europa.eu.int/comm/dgs/health_consumer/library/press/press175_en.pdf)



## Books & Journals

Heaf, D. & J. Wirz (eds.), *Intrinsic Value and Integrity of Plants in the Context of Genetic Engineering (Proceedings of Ifgene Workshop)*. Dornach, 9-11 May 2001 (ISBN 0-9541035-0-5, 25.00 Swiss francs).

### Contents

- Rehmann-Sutter, C., *Dignity of plants and perception*
- Rippe, K.P., *Dignity of living beings and the possibility of a non-egalitarian biocentrism*
- Verhoog, H., *The intrinsic value of animals: its implementation in governmental regulations in the Netherlands and its implication for plants*
- Schmidt, H., *Dignity of Man and Intrinsic Value of the Creature (Würde der Kreatur) -- conflicting or interdependent legal concepts in legal reality?*
- Narby, J., *Shamans and scientists*
- Bockemühl, J., *A Goethean view of plants: unconventional approaches*
- Lammerts van Bueren, E., *Ethical plant breeding techniques from an organic point of view*
- Haring, M., *Does gene transfer violate the integrity of plants?*
- Koechlin, F., *Solutions of agronomic problems based on 'ecological integrity'*
- Hiss, C., *A practising horticulturist's view on the integrity of plants*
- Sams, C., *The food plant from the processor's perspective: the example of the cocoa tree*
- Baumann, M., *The socio-cultural question: does genetic engineering advance sustainable development*

Summary & downloadable order form at website:

<http://www.anth.org/ifgene/papersMay2001.htm>

More information: Ifgene, c/o Naturwissenschaftliche Sektion am Goetheanum, Postfach, CH-4143 Dornach 1, Switzerland, e-mail:

[johannes.wirz@goetheanum.ch](mailto:johannes.wirz@goetheanum.ch), fax + 41 61 706 4215.

### **Graue Reihe**

There are new editions of the "Graue Reihe", which can be ordered free of charge at the Europäische Akademie zur Erforschung von Folgen wissenschaftlicher-technischer Entwicklungen. Examples are:

25 Thiele, F. (Ed), *Tierschutz als Staatsziel? Naturwissenschaftliche, rechtliche und ethische Aspekte*

26 Gorokhov, V.G., *Technikphilosophie und Technikfolgenforschung in Russland*  
More information, e-mail: [europaeische.akademie@dlr.de](mailto:europaeische.akademie@dlr.de), website: [www.europaeische-akademie-aw.de](http://www.europaeische-akademie-aw.de)

### **OECD Environmental Outlook**

April 2001, 327 pages, Euro 75,00. More information, website: <http://www.oecd.org/>

Müller-Jantsch, S. & S. Strobach (eds.), *GENiale Zeiten: Kontroversen, Kunst und Kultur zur Gentechnik*. Yetipress, Bremen 2001 (ISBN: 3-9805640-9-6, ca. EURO 14). This book provides a high range of different articles on the cultural, ethical, social and political aspects of genetic engineering and biotechnology.

Humphrys, J., *The Great Food Gamble*. Hodder & Stoughton 2001 (ISBN: 0340770457).

Radford, M. & D.M. Broom, *Animal Welfare Law in Britain*. Oxford University Press, Oxford 2001 (ISBN 0198262450, 450 pages).

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Foreword by D.M. Broom, Colleen Macleod Professor of Animal Welfare in the University of Cambridge

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Roling, N.G. & A.E. Wagemakers (eds.), *Facilitating Sustainable Agriculture*, Cambridge University Press 2001 (ISBN: 0521794811).



**Rosegrant, M.W. et al., *Global Food Projections to 2020: Emerging Trends and Alternative Futures*. Institute for Food Policy Research Institute, Washington DC 2001 (206 pages).**

In this volume, which reports the results of IFPRI's projection work in far more detail than previous publications, the authors give their best assessment of what the future food situation will be in the baseline scenario. Then they examine the effects of changes in policy, technology, and life styles through two sets of alternative scenarios. One set explores changes at the global level; the other is regional, focusing on changes specific to Asia and Sub-Saharan Africa.

These scenarios point to one inescapable conclusion: even rather small changes in agricultural and development policies and investments, made in both developed and developing countries, can have wide-reaching effects on the number of poor and undernourished people around the world. The policy choices we make now will determine to a considerable degree what kind of lives the next generation will lead.

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  - 7 Investment Requirements: What Will the Costs Be?
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- Appendix A Countries and Commodities Included in the IMPACT Model
- Appendix B Supplementary Production, Demand, and Trade Data
- Appendix C Regional Food Supply and Demand Data and Annual Growth Rates
- Appendix D Production, Demand, and Trade Data by Commodity, 1997 and 2020

**Strandberg, M. & G. Kjellsson, *Monitoring and Surveillance of Genetically Modified Higher Plants*. Birkhauser Verlag AG 2001 (ISBN: 3764362278).**

**Wise, S.M., *Rattling the Cage: Towards Legal Rights for Animals*. Merloyd Lawrence Books 2001 (ISBN: 0738204374).**

#### **11th World Congress of Food Science & Technology Overview 22-27 April 2001**

The 11th World Congress of Food Science & Technology, IUFOST Congress XI, was hosted by the Korean Society of Food Science and Technology in Seoul, Korea.

The Congress was officially opened on Sunday evening 22 April by Professor Tai-Wan Kwon (Inje University, Korea), Chair of the Organising Committee. He stated that the Congress theme ('Paradigm Shift-Harmonisation of Eastern and Western Food Systems') provided delegates from both the East and the West with the opportunity to contribute the latest knowledge in food research and industrial activity, and he invited all delegates to be active participants.

Professor Walter Spiess (IUFOST President 1999-2003) stressed that in the past, food science and technology had concentrated more on preserving the properties of the raw material than in meeting the needs of the consumer, but this role should change to one of a mediator between the needs of agriculture and nutrition. He challenged the food science and technology community to think differently about the major food concerns, such as the imbalance of trade in food stocks.

More information, website:

<http://www.worldfoodscience.org/congress/overview.html>

#### **Agriculture and Environment Biotechnology Commission (AEBC), *Crops on Trial 2001*.**

The AEBC has published a report (10th September 2001) evaluating the farm scale trials of GM crops. The Commission believes that the trials will not provide enough evidence to allow them to be grown commercially. A number of recommendations are made in the report, for more information see website:

<http://www.aebc.gov.uk> or

<http://www.guardian.co.uk/gmdebate/> for media coverage.

#### **Food Standards Agency Probes Nation on Attitudes to Food**

The Food Standards Agency has carried out its first annual investigation into public attitudes to food safety, standards, nutrition, diet and shopping. The Consumer Attitudes to Food survey reveals the views of more than 3,000 people across the UK and the issues that really matter to them. Carried out only six months after the Agency was created, survey results show the greatest level of concern is over food safety issues and reveal widespread confusion among consumers about food labelling.



#### Website Sections

- Consumers' Attitudes to Food Standards - Summary of Scottish Findings;
- Agency probes nation on attitudes to food (UK Press Release);
- Top ten facts and figures;
- Executive summary.

The full report can be accessed at website:  
<http://www.foodstandards.gov.uk/research/consumer.htm>

#### **Farm Animal Welfare Council (FAWC), *Interim Report on the Animal Welfare Implications of Farm Assurance Schemes, August 2001.***

##### Contents

I	Introduction
II	Background
III	General Principles of Farm Assurance Schemes
IV	Current issues of scheme implementation
V	Sectoral Attitudes to Assurance Schemes

#### VI Assessment and Evaluation of Welfare Standards

#### VII Main Issues emerging from study to Date

#### VIII Conclusions and Recommendations

This interim report looks at the general framework of farm assurance schemes to see if they are capable of delivering assurance on the welfare standards under which farm animals are kept. It discusses the key issues that have emerged so far; indicate areas to be studied in more depth; and makes some recommendations primarily to stimulate the review and development of the animal welfare component of assurance scheme standards and to improve communication to the consumer.

FAWC plans to publish the final report in 2002. They would greatly appreciate receiving views on the interim report. More information, website:

[www.defra.gov.uk/animalh/welfare/default.htm](http://www.defra.gov.uk/animalh/welfare/default.htm)

## Websites

**<http://www.foodfirst.org/progs/global/biotech/belgium-gmo.html>**

Rosset, P., *Genetic Engineering of Food Crops for the Third World: An Appropriate Response to Poverty, Hunger and Lagging Productivity?*

**<http://www.utm.edu/research/iep/>**  
Internet Encyclopedia of Philosophy

**<http://www.u.arizona.edu/~chalmers/online.html>**

Online papers on consciousness, compiled by David Chalmers. This is a directory of 1075 online papers on consciousness and related topics. There are also some on animal consciousness.



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## Newsletter

The Newsletter of the European Society for Agricultural and Food Ethics (EurSafe) is published quarterly. The Spring Issue is published and mailed in March, the Summer Issue in June, the Fall Issue in September, and the Winter Issue in December. Requests for

subscription and address changes should be sent to the EurSafe Secretariat ([EurSafe@theo.uu.nl](mailto:EurSafe@theo.uu.nl)). Items for inclusion in the Newsletter should be sent to Volkert Beekman ([v.beekman@lei.wag-ur.nl](mailto:v.beekman@lei.wag-ur.nl)).

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