

## NJF Seminar 410

### Risk Assessment of Global Agrifood Production Chains

NJF's 90 Year Jubilee Symposium

5 – 6 November, Helsinki, Finland

#### Presentations and posters of the symposium:

##### **SESSION 1: VULNERABILITY OF PRODUCTION PROCESSES AND DELIVERY SECURITY**

Reasons, means, impacts and problems of supply security

*Jukka Kola*

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Food and feed travels: Where do the production inputs come from?

*Jyrki Niemi*

[NJF410\\_Presentation\\_1\\_2\\_Jyrki Niemi.pdf](#)

Sensitive phases in production and delivery processes and their impacts

*Ilmo Aronen*

[NJF410\\_Presentation\\_1\\_3\\_Ilmo Aronen.pdf](#)

Farm-RM – risk management tools for farms

*Jarkko Leppälä, Mervi Murtonen and Juha Suutarinen*

[NJF410\\_Presentation\\_1\\_4\\_Jarkko Leppala.pdf](#)

##### **POSTERS OF SESSION 1**

Farm women's occupational safety and well-being at work

*Marja Kallioniemi and Hanna-Riitta Kymäläinen*

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Farmers' Occupational Health Services in Finland

*Kirsti Taattola, Birgitta Kinnunen, Jukka Mäittälä and Kaj Husman*

[NJF410\\_Poster\\_1\\_2\\_Taattola.pdf](#)

Milk production risks in Latvia

*S. Rivza, P. Rivza, B. Rivza*

Soil compaction – A threat to agrifood production

*Ole Green, Mathieu Lamandé and Per Schjønning*

[NJF410\\_Poster\\_1\\_4\\_Green.pdf](#)

## **SESSION 2: ENERGY SUPPLY AND ROLE OF RENEWABLE ENERGY ON SUPPLY SECURITY**

Field bioenergy in Finland, possibilities and challenges

*Jukka Ahokas and Hannu Mikkola*

[NJF410 Presentation 2\\_1\\_Jukka Ahokas.pdf](#)

Energy availability and delivery – role of renewable energy on supply security

*Pål Börjesson*

[NJF410 Presentation 2\\_2\\_Pal Borjesson.pdf](#)

### **POSTERS OF SESSION 2**

Bioenergy production in Finland – effects on growth, employment, and environment at regional level

*Antti Simola, Jukka Kola and Hannu Törmä*

[NJF410 Poster 2\\_1\\_Simola.pdf](#)

Factors influencing the rapeseed biomass supply chain

*Ana Sambra, Claus Grøn Sørensen and Erik Fløjgaard Kristensen*

## **SESSION 3: LOGISTICS AND PRODUCTION INPUTS**

Interrelation of food supply, environment and security - a life cycle assessment approach

*Sirpa Kurppa*

[NJF410 Presentation 3\\_1\\_Sirpa Kurppa.pdf](#)

Imposing quality requirements on carbon footprints - implications for producers, retailers and consumers

*Adriaan Perrels, Mikko Hongisto, Juha-Matti Katajajuuri, Ari Nissinen, Merja Saarinen, Kirsi Usva, Sirpa Kurppa and Tuomo Heikkilä*

[NJF410 Presentation 3\\_2\\_Adriaan Perrels.pdf](#)

Local food and supply security

*Heidi Valtari*

[NJF410 Presentation 3\\_3\\_Heidi Valtari.pdf](#)

Assessment of the environmental risks of agricultural impact on water quality

*Viesturs Jansons, Ainis Lagzdins and Laima Berzina*

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### **POSTERS OF SESSION 3**

Status and problems of co-existence of conventional and GM crops in Latvia

*Inara Turka*

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## **SESSION 4: FOOD SAFETY RISKS AND SAFEGUARDING THE QUALITY CHAIN**

Lessons learned from epidemics of Foot- and mouth disease, Avian influenza and Bovine spongiform encephalopathy and other diseases

*Bengt Larsson*

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Estimating economic effects of a contagious animal disease in Finland

*Jarkko K. Niemi*

[NJF410 Presentation 4 2 Jarkko Niemi.pdf](#)

Emerging food safety risks in globalizing world

*Veli-Mikko Niemi*

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Counterfeit and illegal pesticides – a serious threat to food safety

*Rocky Rowe*

[NJF410 Presentation 4 4 Rocky Rowe.pdf](#)

### **POSTERS OF SESSION 4**

Uncertainty in decision analysis: A case study of dioxins and Baltic herring

*Inari Helle, Mari Pylkkö, Sakari Kuikka and Samu Mäntyniemi*

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Alternatives for cost sharing in relation to animal disease risks

*Jaakko Heikkilä and Jarkko K. Niemi*

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Biosecurity in poultry production: a disease classification exercise

*Heidi Rosengren, Jaakko Heikkilä, Kirsi-Maarit Siekkinen and Niina Tammiranta*

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Microbiological risk analysis in public catering establishments

*A. Melgalve, D. Karklina, I. Arhipova*

Use of radiochemical methods to determine the cleanability of surface materials

*J. Määttä, H.-R. Kymäläinen, R. Kuisma, K.-R. Hurme, A. Uusi-Rauva, A.-M. Sjöberg*

[NJF410 Poster 4 5 Maatta.pdf](#)

A major gene for grain cadmium accumulation in oat (*Avena sativa* L.)

*Pirjo Tanhuanpää, Ruslan Kalendar, Alan Schulman, Elina Kiviharju*

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## **SESSION 5: CLIMATE CHANGE AND WORLD FOOD SECURITY**

Key issues in climate change effects on world food supply

*Jørgen E. Olesen*

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Climate change and Nordic crop production

*Pirjo Peltonen-Sainio and Kaija Hakala*

[NJF410 Presentation 5 2 Pirjo Peltonen-Sainio.pdf](#)

How can we secure food for all – The challenges of climate change and bioenergy

*Christina Engfeldt*

[NJF410 Presentation 5 3 Christina Engfeldt.pdf](#)

### **POSTERS OF SESSION 5**

The invasive slug *Arion lusitanicus* (Gastropoda) and biological control

*Solveig Haukeland, Bjørn Arild Hatteland, Ingrid Magrete Grøndahl, Steffen Roth and Torstein Solhøy*

[NJF410 Poster 5 1 Haukeland.pdf](#)

## **SESSION 6: SUPPLY SECURITY POLICIES IN GLOBAL PERSPECTIVES**

Global drivers of change and the world food economy: Current constraints and future challenges to human well-being

*Siwa Msangi and Mark Rosegrant*

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Cooperatives as a tool for poverty alleviation and food production in Sub-Saharan Africa

*John Sumelius and Shimelles Tenaw*

[NJF410 Presentation 6 2 John Sumelius.pdf](#)

Effects of changing agricultural policies on Estonian agricultural production in recent decades

*Heldur Peterson*

[NJF410 Presentation 6 3 Heldur Petterson.pdf](#)

### **POSTERS OF SESSION 6**

Impacts of agricultural trade and market liberization of food security in developing countries: comparative study of Kenya and Zambia

*Newton Morara Nyairo*

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The Strategy for securing the functions vital to society: A well-functioning economy and infrastructure is guaranteeing the processing and distribution of food (Finnish case)

*Juhani Leppälä*

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A short overview of NJF's history

*Tord Erisson*

[Tord Eriksson.pdf](#)