

Annual Report • 2013

Outlook 2014



Nordic Association of Agricultural Scientists

Contact NJF : General Secretariat

Address of the General Secretariat:
NJF General Secretariat
c/o Royal Swedish
Academy of Agriculture and Forestry
Drottninggatan 95 B
P.O. Box 6806
SE-113 86 STOCKHOLM

Secretary General: Roland Sigvald
Phone: +46 18 34 14 20
Fax: +46 18 34 14 20
Mobile: +46 70 661 14 79
E-mail: njf@njf.nu

Website: www.njf.nu

ISSN 1653-0063



Nordic Association of Agricultural Scientists

April 2014



Nordic Association of Agricultural Scientists

ANNUAL REPORT 2013

OUTLOOK 2014

NORDIC ASSOCIATION OF AGRICULTURAL SCIENTISTS, NJF

c/o Royal Swedish Academy of Agriculture and Forestry

P.O.Box 6806

SE-113 86 Stockholm

Phone: +46 18 34 14 20 • Fax: +46 18 34 14 20

E-mail: njf@njf.nu

Web site: www.njf.nu

Graphic production: ReklamMontage, Eskilstuna

Index

Letter from the President.....	5
NJF General Secretariat.....	6
Annual Report 2013.....	7
Short reports from seminars.....	26
Outlook 2014.....	48
NJF:s Board.....	49
Assembly of Delegates.....	51
Honorary Members.....	51
National Associations.....	52
Sections:	
– Plants.....	60
– Animals.....	63
– Environment.....	66
– Economics.....	68
– Technology.....	70
– Reindeer husbandry.....	72
Acta Agriculturae Scandinavica.....	73



Letter from the President

Another year has passed with broad activities within NJF. We had 8 NJF-seminars with about 520 participants in 2013. In addition all the sections had their board meetings. The activity is very satisfactory.

The NJF-seminars are our core activity. Through the seminar we create meeting places, network, and they represent an opportunity to disseminate results through scientific journals like *Acta Agriculturae Scandinavica*, as well as through our own report series. We aim at keeping the seminars at a high scientific level. At the same time we seek to make the seminars relevant and interesting to a broad target group. The seminars often attract participants from many countries outside the Nordic countries.

The 5 section boards of NJF have been working well with the seminar planning. I have had the pleasure of attending a few of the seminars. In 2013 we also have had two meetings with the Assembly of delegates. I want to thank the Lithuanian chairman, Linas Stabingis for hosting the meeting in Vilnius in April. I will also thank Rolvur Djurhus for hosting our second meeting at the Faroe Island in September. It was very interesting to visit this part of the Nordic countries and also learn about the their agriculture and research activities.

During the year the AD has discussed and decided some important matters. I will mention a few:

The Congress 2015 in Riga. The invitation and call for papers is now published. We are looking forward to the great event in June 2015.

AD decided to establish a new section for reindeer husbandry in NJF to take over the former Nordic reindeer network. The first NJF-seminar on this topic was held in Tromsø in October, and the next one is already planned in Finland this year.

The question of moving the NJF Central office to Norway from 2015 has been discussed, and we have investigated actual localizations. The final decision will be taken in 2014.

The economy and the future financing of the organization have been continuous concerns. We still manage to work with a sound economy, thanks to Governmental grants and high activity.

I will send a thank to the section leaders and the chairmen of the National associations. Without their voluntary work, NJF would hardly exist.

Finally I want to thank Roland Sigvald for the preparation of this report and his good work as the Secretary General during the year. I also congratulate him with the appointment as honorary doctor at the Latvia University of Agriculture.



Svein Skøien
PRESIDENT

NJF General Secretariat

Address:

NJF General Secretariat
c/o Royal Swedish
Academy of Agriculture and Forestry.
Drottninggatan 95B
P.O.Box 6806
SE-113 86 STOCKHOLM

Phone: +46 18 34 14 20

Fax: +46 18 34 14 20

e-mail: *njf@njf.nu*

NJF Corporate identity No.: 802414-1908

Secretary General

Roland Sigvald

Payments to NJF

Bank:

Swedbank

SE-105 34 Stockholm

International payment:

Swiftcode: Swedsess

IBAN: SE 4280000832799749509155

Payment within Sweden:

Bank: 8327-9 974 950 915-5

Plusgiro: 601541-6

Bankgiro: 5688-7961

Payments from NJF

All invoices from countries outside Sweden will be paid to a bankaccount with IBAN-No and the recieving bank's Swiftcode (Bic).



Nordic Association of Agricultural Scientists

The Assembly of Delegates submits the
Annual Report
of
THE NORDIC ASSOCIATION OF AGRICULTURAL SCIENTISTS,
NJF
Corp. Identity No. 802414-1908

for the financial year 1 January – 31 December 2013

Index:	Page
Administration report	9
Activities of the Association.....	11
Income statement	19
Balance sheet	20
Equity and liabilities	20
Accounting principles and valuation principles.....	21
Notes for financial statements	21
Signatures.....	25



Administration Report

Objective

The objective of NJF is to promote and develop interactions (networking) between scientists, advisors, teachers and administrators, and between agriculture, agricultural research, industry, consumers and society, particularly in the Nordic and Baltic region. In addition, NJF aims to promote activities that facilitate research in agriculture, in primary production of food and the quality and safety of produce, and in rural and environmental issues.

General

The General Secretariat is at present located at the Royal Swedish Academy of Agriculture and Forestry (KSLA) in Stockholm. Since 2011, Estonia, Latvia and Lithuania have also been member countries of NJF.

The NJF Board is the executive body and consists of the chairpersons of the sections and the President:

Sven Skøien, Norway (President)
Irmeli Markkula (Plants section)
Hanne H Hansen (Animal section, until 31/10/2013)
Egil Prestløkken (Animal section, from 01/11/2013)
Kristiina Regina (Environment section and vice-President
from 01/05/2013)
Sjur Spildo Prestegard (Economics section)
Ole Green, Denmark (Technology section and vice-President
until 30/04/2013)
Snorri Sigurdsson (Technology section from 01/05/2013)
Roland Sigvald (Secretary General)

The Assembly of Delegates is the highest authority of NJF. Delegates are the chairpersons of the sections and the chairs of National Boards.

Svein Skøien, President
Hanne H Hansen (Animal section), Chair National Board, Denmark
(until 31/10/2013)
Johannes Ravn Jørgensen, NJF Denmark (from 01/11/2013)
Heldur Peterson, Estonia
Kristiina Regina (Environment section), Chair National Board,
Finland
Torfi Jóhannesson, Iceland
Peteris Rivza, Latvia
Linas Stabingis, Lithuania

Kirsty McKinnon, Norway
Anders Larsolle, Sweden
Irmeli Markkula (Plants section)
Egil Prestløykken (Animal section from 01/11/2013)
Sjur Spildo Prestegard (Economics section)
Ole Green (Technology section until 30/04/2013)
Snorri Sigurdsson (Technology section from 01/05/2013)

The Assembly of Delegates (AD) consists of four women and eight men. The Assembly of Delegates had two meetings in 2013, on 22-23 April at Algirdas City Hotel, Vilnius, Lithuania, and on 6-7 September on the Faroe Islands.

The auditor for the period was authorised public accountant Jens Karlsson, Ernst & Young AB, Stockholm, and the general examiner was Dr Daniel Lunneryd, Department of Economics, Swedish University of Agricultural Sciences, Uppsala.

Activities of the Association

The professional activities of NJF are mainly carried out within the six sections. A new section, *Reindeer Husbandry*, was established in September 2013. Eight seminars were held in 2013 and were attended by a total of 522 participants. NJF reports and presentations are published on the NJF website: www.njf.nu

The following seminars were arranged:

No. 455

Time and place: 30-31 January, Forssa, Finland
Title: **Nordic Forage Model Applications**
Seminar secretary: Oiva Niemeläinen
e-mail: oiva.niemelainen@mtt.fi
Arranged by: Plants section
Published: NJF Report 9 (1), 2013
Participants: 29

No. 459

Time and place: 14-15 February, Helsinki, Finland
Title: **2nd Nordic Biochar Seminar**
Seminar secretary: Priit Tammeorg
e-mail: priit.tammeorg@helsinki.fi
Arranged by: Environment section
Published: NJF Report 9 (2), 2013
Participants: 95

No. 461

Time and place: 21-23 August, Bredsten, Denmark
Title: **Organic farming systems as a driver for change**
Seminar secretary: Kirsi Partanen
e-mail: Kirsi.Partanen@snellman.fi
Arranged by: Plants section
Published: NJF Report 9 (3), 2013
Participants: 120

No. 464

Time and place: 28-30 August, Reykjavik, Iceland
Title: **Annual Autumn Meeting in Fur Animal Research 2013**
Seminar secretary: Mikael Lassén
e-mail: tml@kopenhagenfur.com
Arranged by: Animal section
Published: NJF Report 9 (4), 2013
Participants: 100

No. 462

Time and place: 23-25 September, Sarpsborg, Norway
Title: **Does climate change demand a new approach to drainage design?**
Seminar secretary: Marte Lund Edvardsen
e-mail: *jormle@bioforsk.no*
Arranged by: Environment section
Published: NJF Report 9 (5), 2013
Participants: 57

No. 466

Time and place: 23-24 October, Tromsø, Norway
Title: **Optimising production in reindeer husbandry**
Seminar secretary: Øystein Ballari
e-mail: *oystein.ballari@bioforsk.no*
Arranged by: Reindeer husbandry section
Published: NJF Report 9 (6), 2013
Participants: 54

No. 468

Time and place: 30 October, Kristianstad, Sweden
Title: **Suction traps in studying the distribution and occurrence of insects and forecasting pests and vector-borne viruses**
Seminar secretary: Roland Sigvald
e-mail: *roland.sigvald@slu.se*
Arranged by: Plants section
Published: NJF Report 9 (7), 2013
Participants: 30

No. 465

Time and place: 12-13 November, Copenhagen, Denmark
Title: **IPM in Nordic and Baltic berry crops**
Seminar secretary: Lene Sigsgaard
e-mail: *les@life.ku.dk*
Arranged by: Plants section
Published: NJF Report 9 (8), 2013
Participants: 37

Seminar statistics 2000–2013

<i>Year</i>	<i>Number of seminars</i>	<i>Participants</i>	<i>Cancelled Seminars</i>
2000	5	208	5
2001	10	493	6
2002	12	617	0
2003	5	219	2
2004	6	384	6
2005	10	577	1
2006	14	667	3
2007	7	316	2
2008	7	327	4
2009	9	706	1
2010	7	466	1
2011	9+NJF congress	665	1
2012	10	572	2
2013	8	522	0
Total		6739	

During 2013:

Sections, working groups, seminars, information on website

– Seminars were very successful during 2013, with more than 500 participants at seminars in Finland, Iceland, Norway, Denmark and Sweden. There were also working group meetings, AD meetings and section board meetings. The great interest in NJF seminars and other activities shows that NJF is a very important association for networking in the Nordic and Baltic Sea Region.

– Most seminars were organised in the Plants section (4 seminars), which was partly due to that section having the most members, about 900. There have been many participants in the seminars. The seminar ***“Organic farming systems as a driver for change”*** was attended by 120 participants. In the Plants section, a one-day seminar was organised together with the European network EXAMINE. Besides participants from about 10 European countries, that seminar also attracted participants from South Africa, New Zealand and China.

– The Environment section organised two seminars which were very well attended. The ***“2nd Nordic Biochar Seminar”*** was attended by 95 participants, which shows that this is a very interesting topic. The seminar ***“Does climate change demand a new approach to drainage design?”*** was attended by 57 participants. The participants were very satisfied with the organisation and programme and pointed out that this is a very important topic to discuss, partly due to effect of climate change.

– The new NJF Reindeer Husbandry section arranged a seminar on ***“Optimising production in reindeer husbandry”*** in late October at Tromsø in northern Norway. The section will organise the next seminar in Finland during autumn 2014. The Nordic Joint Committee for Agricultural and Food Research (NKJ) financially supported the seminar at Tromsø with 120 000 NOK.

– The working group on Fur Animal Research in the Animals section organised a seminar on ***“Fur animals”*** in late August in Reykjavik, Iceland. The seminar was attended by 100 participants. The next seminar will be organised by the working group in autumn 2014.

– Seminars are a very important activity within NJF and are organised by NJF sections and working groups. They are some of the main activities carried out within NJF to promote and develop interactions (networking) between scientists, advisors, teachers and administrators, and between agriculture, agricultural research, industry, consumers and society, particularly in the member states. The great interest in organising seminars by sections and working groups, the extensive voluntary work carried out by many NJF members and the number of participants at seminars show that NJF is a very important association in the Nordic and the Baltic Sea Region. More information on seminars (seminar summaries, NJF reports and presentations) is available on the NJF website under “Seminars” and “Publications”. See: www.njf.nu.

– Many working groups are actively planning new seminars for the coming year/s. In total, there are 18 working groups in the six sections, with the greatest number in the Plants section. Working group meetings and planning of new seminars are also important in networking in the Nordic and the Baltic Sea Region.

– Section boards generally meet once a year to plan new working groups and seminars. The proposals are subsequently discussed by AD. According to the new structure introduced on 1 July 2011, some working groups have been terminated and some new working groups have been established.

– Since September 2005, seminars have been managed on the internet. The system works well and seminar secretaries handle the administration, including information on the website, programme, invoices etc. There has been great interest in the NJF website.

According to statistics, it received on average the following number of hits per month:

<i>Year</i>	<i>No. of hits per month</i>
2007	7 200
2008	9 800
2009	10 000
2010	10 440
2011	10 521
2012	11 100
2013	10 972

AD meetings, NJF Board meetings and national board meetings

– In 2011, the Baltic countries became full members of NJF and are now members of the Assembly of Delegates, which is the highest authority of NJF. Delegates are the chairpersons of the sections and the chairperson of each country. AD had two meetings in 2013. There were no meetings of the NJF Board or national chairs in 2013.

– **At the AD meeting on 22-23 April**, NJF´s President Svein Skøien reported about his meeting with NKJ. The members of NKJ are interested in increased cooperation with NJF. They also recommend that NJF offer a co-operation with the former Nordic Council for Reindeer Husbandry. The chairs of each country then reported about the situation in their respective country. The main points were how to get more members, obtaining financial support and improvement of the administrative system, e.g. centralised handling of the membership fee.

– At the meeting, the working groups and planned seminars were discussed. It was pointed out that it is important that all sections hold meetings and plan seminars for the coming years and also that planning starts well in advance of the seminar. Then seminars could be organised by more than one section if the topics are closely related.

– The Swedish National Archives can store most of the NJF archives. AD decided to allocate 150 000 SEK for moving the NJF archives to the Swedish National Archives.

– At the AD meeting, it was announced that Ole Green had resigned as NJF vice-President. Kristiina Regina was elected by AD for the remaining period.

– Collaboration with related associations, veterinary associations, landscape architects and reindeer researchers was discussed at the meeting. An application had been received from reindeer researchers to become a section within NJF. It was decided that this would be discussed further at the next AD meeting, in September.

– **At the AD meeting on Faroe Islands on 6-7 September**, the main points to discuss were NJF finances, future financing, the application from reindeer researchers, the budget for 2014 and NJF´s structure and statutes.

– So far, NJF´s financial position remains rather steady and this will continue into the near future, but in the longer term it is important to obtain national grants, as well as financial support when organising seminars.

– Creation of a **reindeer research section with NJF was discussed**. AD members gave their opinion on reindeer researchers joining NJF. After discussion, all AD members approved creation of a new Reindeer Husbandry section within NJF. It was also decided that a seminar on **Optimizing production in reindeer husbandry** would be organized by reindeer researchers at Tromsø, Norway on 23-24 October 2013, partly together with NKJ Arctic Bioeconomy.

– The budget for 2014 was presented by Roland Sigvald at the AD meeting in September. Government grants to NJF will amount to 930 000 SEK in total if grants from the Swedish government remain in place, while membership fees will amount to about 180 000 SEK. Total income was estimated to be 1 260 000 SEK. It was decided by AD to increase the scholarship for NJF members to a total of 150 000 SEK. The total financial deficit for 2014 was estimated to be 575 000 SEK based upon previous estimates, but following a decision by Formas not to grant NJF funding from 2014, the deficit will increase.

– The membership fee was discussed. AD decided the following for 2013-2014: Ordinary: SEK 160; OAP and students: SEK 80. After discussion, the budget was approved.

– NJF´s structure and statutes were discussed. The name Assembly of Delegates (AD) and NJF Board are now misleading. The NJF body, which has the responsibility for policy, economy, statutes etc., would better be named NJF Board. It was decided that Svein Skøien and Roland Sigvald make a draft proposal on changes of names, structure and statutes and present it before the next AD meeting.

– Employment of the Secretary General from 1 July 2013 was discussed at the previous AD meeting. The present contract with Roland Sigvald terminated on 1 July 2013. AD decided to authorise Svein Skøien to discuss a new contract (1 July 2013- 30 June 2015) with Roland Sigvald. The contract was subsequently extended until 30 June 2015.

– Four issues of the NJF newsletter, NEWS FROM NJF, were distributed by e-mail.

– The booklet 'Annual Report 2012 and Outlook 2013' was distributed to all members by ordinary mail in May.

NJF finances

- NJF's finances have remained rather steady until 2013, but there seems to be a large deficit looming in coming years mainly due to loss of national grants. The total deficit for 2013 was almost 358 000 SEK.
- The Swedish Ministry for Rural Affairs again granted 150 000 SEK to NJF to cover part of the costs of hosting the General Secretariat at the Academy in 2013.
- The budget for 2014 was approved by AD at the meeting in September 2013. Preliminary estimates indicate that there will be a deficit of 575 000 SEK in 2014, mainly due to loss of national grants.
- Membership fees brought in a total of 164 582 SEK in 2013, which is almost the same as in 2012. Membership fees from Estonia have been delayed and will be posted in the financial statement for 2014. The membership fees from Iceland are higher than normal because of a delay in payment in 2012, which is shown in the financial statement for 2013.
- The cost of AD meetings was higher than in the previous year, mainly because no separate meetings were held for NJF Board and National chairs, but it was also important that AD met during the year to discuss several important points for the future.
- It was decided by AD in 2011 that a fee (300 SEK per participant) would be included in seminar fees from 2012 to cover the financial costs to the General Secretariat related to running and maintaining the NJF website, seminar arrangement via the internet system etc. This resulted in about 135 300 SEK to the General Secretariat in 2013.
- About 70 people from outside the member countries have asked to become NJF members. According to NJF statutes, applicants living outside the NJF countries can become "Supporting members" of NJF. It was decided that NJF-C would deal with these applications.
- AD discussed how to secure funding for NJF in the long run. It was emphasised that it is very important that NJF continues to obtain national grants in the future. For the immediate coming years, the situation in this regard seems positive for all Nordic countries except Denmark and Sweden. It was decided by Formas, Sweden, not to give national grants to NJF from 2014. In 2013 NJF received 190 000 SEK from Formas.
- Other income in 2013 amounted to about 1 926 595 SEK, which was mainly due to the final accounts for some seminars in 2012 and 2013 having not been submitted as yet. There are costs (other external costs) related to the seminars, as shown in the financial report.

–The financial situation of NJF sections differs rather widely. The total closing balance for the sections was slightly less than the opening balance, but there was a great difference between sections, mainly due to number of seminars held during the year.

– The Secretary General of KSLA, Dr Carl-Anders Helander, agreed to continue to accommodate the NJF office at the Academy.

– The layout of the home page on the NJF website has been updated. The new layout includes information boxes about "More of interest" and "Join NJF". In addition, information on NJF objectives can be found on the main page and new headlines with embedded links: "Collaborative activities", "Seminar summaries", as well as links to publications including "News from NJF", "Annual Report and Outlook", and links to Acta Agriculture Scandinavica and books and other literature.

The number of members was 1 441 at the end of 2013.

The numbers of members in different countries in the years 2004-2013 were as follows:

Country	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Denmark	272	221	220	194	156	147	148	113	132	122
Estonia	39	24	38	50	52	64	65	70	74	74
Finland	329	328	330	335	330	336	338	287	295	303
Iceland	101	102	99	99	97	96	96	97	94	90
Latvia	32	43	44	64	66	71	71	75	78	86
Lithuania	38	43	46	45	72	76	81	81	87	87
Norway	460	460	441	409	368	356	354	362	351	351
Sweden	539	536	480	439	418	384	371	371	353	328
Total	1810	1757	1698	1635	1559	1530	1524	1456	1464	1441

Besides NJF members from member countries, there were about 70 applications from people in other countries to become NJF members.

THE NORDIC ASSOCIATION OF AGRICULTURAL SCIENTISTS, NJF
Corp. Identity No. 802414-1908

ANNUAL REPORT 2013

INCOME STATEMENT

	Note	2013-01-01 2013-12-31	2012-01-01 2012-12-31
Income			
Governments grants	1	848 256	1 045 885
Membership fees	2	164 582	164 016
Other income	3	1 926 595	1 034 927
		2 939 433	2 244 828
Expenses			
Other external costs	4	-2 711 002	-1 555 981
Personnel costs	5-6	-637 120	-640 893
		-3 348 122	-2 196 874
Operating loss/profit		-408 689	47 954
<i>Returns on financial investments</i>			
Other interest income and similar profit items		51 733	68 368
Interest on costs and similar loss items		-967	-8 294
Net loss/profit for the year		-357 923	108 028

BALANCE SHEET

Note 2013-12-31 2012-12-31

ASSETS**Current assets***Current receivables*

Other receivables		24 952	116
Prepaid expenses and accrued income	7	518 257	914 505
		<u>543 209</u>	<u>914 621</u>

Cash and bank balances

	8	4 306 302	5 140 846
--	---	-----------	-----------

Total current assets **4 849 511** **6 055 467****TOTAL ASSETS** **4 849 511** **6 055 467****EQUITY AND LIABILITIES****Equity**

9 - 10

Non-restricted equity

Profit brought forward		4 262 867	4 154 839
Profit/loss for the year		-357 923	108 028

Total equity **3 904 944** **4 262 867****Current liabilities**

Accounts payable		222 388	462 344
Income tax liability		0	0
Other liabilities		30 680	27 741
Accrued expenses and deferred income	11	691 499	1 302 515

Total current liabilities **944 567** **1 792 600****TOTAL EQUITY AND LIABILITIES** **4 849 511** **6 055 467****MEMORANDUM ITEMS**

Assets pledged		None	None
Contingent liabilities		None	None

ACCOUNTING PRINCIPLES AND VALUATION PRINCIPLES

The accounting standards applied are in accordance with the Annual Accounts Act and the recommendations of the Swedish Accounting Standards Board.

Assets, provisions and liabilities have been valued at acquisition value unless otherwise stated.

Receivables

Receivables are entered at the amount in which they are expected to be received.

Current receivables and liabilities in foreign currency

Receivables as well as liabilities in foreign currencies are converted to year-end rate.

Revenues

Revenues have been reported at fair value for what have been received or are expected to be obtained.

NOTES TO FINANCIAL STATEMENTS	2013	2012
Note 1 – Governments grants		
Denmark	0	0
Finland	156 366	159 651
Iceland	23 000	7 970
Norway	328 890	348 264
Sweden	190 000	380 000
Sweden extraordinary grant	150 000	150 00
	848 256	1 045 885
Note 2 – Membership fees		
Denmark	16 000	15 360
Estonia	0	4 865
Finland	22 751	35 614
Iceland	30 100	16 160
Latvia	6 960	8 080
Lithuania	8 018	0
Norway	36 753	34 497
Sweden	44 000	49 440
	164 582	164 016
Note 3 - Other income		
<i>Sections</i>		
Seminars	1 513 895	410 702
	1 513 895	410 702
<i>Other</i>		
General Secretariat, seminars	277 400	396 626
Administration fee for seminars to General Secretariat	135 300	171 600
Other operating income	0	55 999
	412 700	624 225
Total other income	1 926 595	1 034 927

Note 4 - Other external costs	2013	2012
<i>Sections</i>		
Travels and meetings	189 757	167 915
Seminars	1 383 767	375 174
	<hr/>	<hr/>
	1 573 524	543 089
<i>Journal and design</i>		
Print	50 285	53 575
Postage	36 350	35 788
Design and other expenses	7 703	5 400
NJF Board, marketing	50 221	2 690
	<hr/>	<hr/>
	144 559	97 453
<i>Assembly of Delegates, NJF Board and National chairs</i>		
Assembly of Delegates meetings	219 287	57 525
Reserve for Baltic members' scholarship	27 541	5 009
NJF Board travel and meetings	0	47 877
National Chair meetings	0	74 786
President and other travels	30 796	26 687
President remuneration	101 717	82 523
Secretary General, travel	5 681	14 064
	<hr/>	<hr/>
	385 022	308 471
<i>General Secretariat expenses</i>		
Office rent and administration, Sweden	205 000	218 333
Other external expenses	43 029	42 727
Auditing and other assistance	55 115	55 664
Banking costs	38 066	33 420
General Secretariat, seminars	266 687	256 824
	<hr/>	<hr/>
	607 897	606 968
Total other external costs	2 711 002	1 555 981
Note 5 - Personnel costs		
Salaries	555 794	531 106
Change in accrued holiday pay	9 032	40 904
Health care	2 082	0
Social security	70 212	68 883
	<hr/>	<hr/>
	637 120	640 893

Note 6 – Employees	2013	2012
---------------------------	-------------	-------------

Average number of employees

The average number of employees has been calculated by dividing paid hours by the standard working hours per year.

Average number of employees	0.6	0.6
of whom, women	0.1	0.1

<i>Sick leave</i>	None	None
-------------------	------	------

Wages, salaries, other remunerations, social costs and pension costs have been as follows

Wages, salaries and remunerations to the President	101 717	82 523
Wages, salaries and remunerations to the Secretary General	512 194	514 742
Wages, salaries and remunerations to other employees	52 632	57 268
Total	666 543	654 533

Social costs, Secretary General (pension costs 0)	53 675	50 890
Social costs, other employees	16 537	17 993
Total	70 212	68 883

Outstanding pension obligations	None	None
---------------------------------	------	------

Note 7 – Prepaid expenses and accrued income

Seminars, not yet closed	417 507	858 632
Government grants and membership fees	66 583	21 706
Office rent and administration Sweden	34 167	34 167
	518 257	914 505

Note 8 – Cash and bank balances

Denmark	0	93 509
Sweden	4 306 302	5 047 337
	4 306 302	5 140 846

Note 9 – Equity

	<i>Sections brought forward</i>	<i>GS brought forward</i>	<i>Profit/loss for the year</i>
Opening balance total 4 262 867	367 613	3 895 254	0
Net loss for the year			-357 923
<i>Proposed appropriation of profit</i>			
Result of the sections	-59 629		59 629
To General Secretariat, brought forward		-298 294	298 294
Closing balance total 3 904 944	307 984	3 596 960	0

Note 10 – Equity Sections

	<i>Opening balance</i>	<i>Income closed seminars</i>	<i>Expenses closed seminars</i>	<i>Other expenses</i>	<i>Closing balance</i>
<i>Sections</i>					
Plants	98 900	1 130 641	-1 012 431	-3 298	213 812
Animals	-3 171	38 106	-25 597	-34 189	-24 851
Environment	160 084	300 230	-281 590	-35 018	143 706
Economics	74 775	0	0	-26 097	48 678
Technology	37 025	44 918	-64 149	-91 155	-73 361
	367 613	1 513 895	-1 383 767	-189 757	307 984

Note 11 - Accrued expenses and deferred income

	2013	2012
Seminars, not yet closed	491 526	1 081 791
Auditing	45 000	54 000
Accrued holiday pay	141 141	137 969
Other	13 832	28 755
	691 499	1 302 515

Note 12 -Assembly of Delegates

<i>Members of AD</i>		
Men	8	8
Women	4	4
	12	12

Since 31/10/2013, there are 9 men and 3 women in the Assembly of Delegates.

Stockholm 2014

Svein Skøien
President

Kristiina Regina
Vice president

Torfi Jóhannesson

Egil Prestløyken

Snorri Sigurdsson

Irmeli Markkula

Heldur Peterson

Peteris Rivza

Linas Stabingis

Sjur Spildo Prestegaard

Kirsty McKinnon

Anders Larsolle

Johannes Ravn Jørgensen

Roland Sigvald
Secretary General

Our audit report was rendered at

Daniel Lunneryd

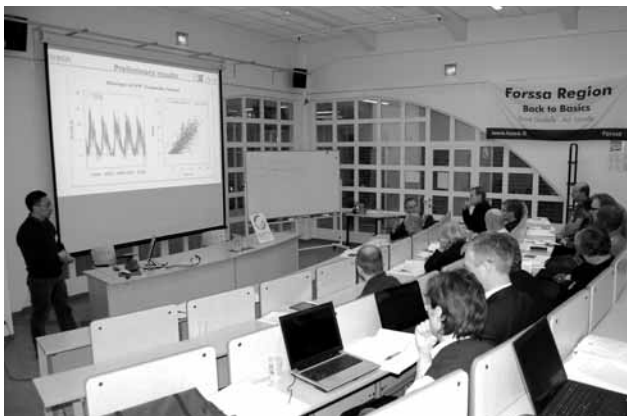
Jens Karlsson
Authorised public accountant

Short reports from seminars

Seminar 455
Nordic Forage Model Applications
Time: 30-31 January
Place: Forssa, Finland

This, the final seminar for the NKJ-supported "Nordic Forage Modelling Network", was arranged jointly with NKJ. In the Nordic countries, most agricultural land is used for forage production. There are comprehensive excellent long-term datasets on forage experiments. The variety testing datasets are particularly well-organised and potentially useful for testing crop models used for assessing forage production under climate change. Datasets from on-site climate stations covering a large geographical area, with a wide range of growing conditions, are also available to be connected to the forage dataset.

Crop modelling is powerful tool for predicting future conditions and yield potential, yield variation and risk assessments of crop failure due to sub-optimal growing conditions. Growth modelling of forage crops is well advanced in the Nordic countries. However, the models have to be validated and calibrated to a wide type of conditions represented by the long term-experiments to increase their applicability for climate change assessments. This was background for the Nordic Forage Modelling Network activity. The network raised awareness among the participants about the datasets available in various countries and about existing expertise, with the aim of encouraging joint research applications on these issues. In addition, the outcome of the network activity and seminar helped to prioritise research goals in forage production research, especially in relation to Nordic adaptation to climate change.



Shaoixu Ma from INRA, France, presented the team's preliminary modelling results to the seminar audience. Good discussions arose from many presentations.

NJF seminar 455 was arranged by the NKJ network in Forssa, Finland, on 30-31 January 2013, under the title "Nordic Forage Model Applications – Predicting Forage Yield and Quality in a Variable and Changing Climate". The seminar had 29 participants, representing the Nordic countries, the Russian Federation, the UK, France and (by video) Czech Republic. The three main themes were: (1) Nordic forage production in the future – what do our models tell us? (2) How do we handle uncertainty in simulation studies on future forage production? and (3) Available data sources. Participants also discussed how to continue the network activities after the end of the NKJ-supported phase. The presentations from the seminar are published as abstracts in NJF Report Vol. 9 (No. 1) 2013. The PowerPoint presentations (15 pdf files) from the seminar are available for download at www.njf.nu.

The seminar served as a good meeting place and discussion opportunity for the specialist group. The relatively small number of participants was expected, due to the rather specific theme. Therefore it was good to have support from the NKJ network for the seminar arrangements. The Forssa campus of HAME University of Applied Sciences provided a good venue to arrange the seminar, with the smaller auditorium with 70 seats and the larger one with 170 seats offering good facilities for presentations. In addition, there are good and reasonably priced lunch & coffee possibilities at the seminar venue, as well as hotel accommodation within 200 m. Connections from Helsinki airport to the site are also quite convenient.



Organising Committee for the seminar: *Mats Höglind, Bioforsk, Norway (Chair)*
Henrik Eckersten, Swedish University of Agricultural Sciences, Sweden, Gudni Thorvaldsson, Agricultural University of Iceland, Oiva Niemeläinen, MTT Agrifood Research Finland (seminar secretary)

The financial support of the Nordic Joint Committee for Agricultural and Food Research (NKJ) in arranging the network seminar is gratefully acknowledged.

Seminar 459
2nd Nordic Biochar Seminar
Time: 14-15 February
Place: Helsinki, Finland

Building on the success of the 1st Nordic biochar seminar in Oslo (November 2011), the University of Helsinki is proud to have hosted the 2nd Nordic Biochar Seminar in Helsinki, Finland on 14-15 February 2013. This milestone event in biochar research in Northern Europe brought together 95 participants from 14 countries, including Germany, Austria, Canada, Belgium, Czech Republic, France and India, in addition to the Nordic and Baltic countries.

The seminar programme included 30 oral presentations and 35 poster presentations. The oral presentations were divided into five sessions, the first of which was entitled "Biochar as a soil amendment in Northern Europe: Soil and plants". This opened with a thought-provoking keynote lecture from Dr. Claudia Kammann from Justus-Liebig University Giessen, Germany. The second session on 14 February was entitled "Biochar as soil amendment: Environmental effects" and it was followed by the seminar dinner at a thematic and very special restaurant, Savu.

On the second day, the focus was more on bioenergy production, pyrolysis technologies and biochar research in areas outside Northern Europe. The



The seminar was held at Helsinki Congress Paasitorni, a historic venue that received very good feedback from the participants.



Prof. Vakkilainen from Finland.

day opened with the keynote presentation from Prof. Esa Vakkilainen from Lappeenranta University of Technology, Finland, who provided a thorough review of the prospects of the bioenergy sector in the Nordic and Baltic countries. The high energy density of biochar together with its suitability for use in large energy plants may provide a pathway to offset the use of fossil coal.



Poster sessions facilitated numerous interesting discussions.

The 35 poster presentations were divided into three main topics: "Biochar effects on plant growth", "Biochar effects on soil quality and environment" and "Bioenergy production and biochar technologies".

One of the key issues highlighted in the presentations over the two days was the results of field and greenhouse experiments in both Nordic and non-Nordic countries. In contrast to the huge (up to 430%) crop yield increases reported in field experiments conducted in the tropics (e.g. the presentation by Prof. Cornelissen), the maximum increase in the Nordic field experiments has been 15% and the yield differences with the control are seldom significant. According to seminar presentations, the main mechanisms by which using biochar as a soil conditioner would facilitate increased plant growth and yields are buffered changes in soil moisture and increased nutrient availability, which could also be linked to the changes in soil biota.

In addition, several novel treatment alternatives to pure biochar application, i.e. composting biochar (Dr. Kammann) or subsoil application (Dr. Bruun), were suggested to result in significant yield improvements in laboratory or greenhouse-scale experiments. Many of the presentations mentioned a crucial need for longer-term experiments, as the longest field-scale assessments at present are only a maximum of three years' duration. The longer-term changes in soil biota and fertility may be explored for traditional charcoal making sites and practices, as presented by Dr. Ahokas from Finland, Dr. Kihlberg from Sweden and Dr. Girardin from France. Another highly relevant issue targeted in the presentations was the use of biochar as a filter to reduce leaching of pesticides, nutrients and contaminants to environment.

Several of the seminar presentations and posters can be accessed online here. Furthermore, the international peer-reviewed open access journal *Agricultural and Food Science* has invited the participants to submit their manuscripts to the special Biochar Issue of *Agricultural and Food Science* by 30 April 2013. More information and instructions for authors can be found on their website.

Conclusions

Considering the relatively modest results obtained so far with biochar field trials in northern Europe and the increasing demand for biomass as a fuel in e.g. the metallurgy industry and district heating plants, will it be economically feasible in temperate regions to use charcoal as biochar instead of as fuel? According to economic model calculations presented by Mr. Helin at the conference, the use of biochar is at present not economically feasible. However, we are probably just in the beginning of exploring the potential of biochar and the methods for its utilisation. Furthermore, ecosystem strengthening methods, such as soil improvement, will probably become increasingly valuable as we move out of the fossil fuel era and into a situation where natural resource limitations and ecosystem services become increasingly tangible.

It is likely that large-scale use of charcoal as fuel would provide just the right pre-conditions for large-scale biochar use in terms of minimising price and providing infrastructure. Furthermore, compacted charcoal is an excellent biofuel for transport and storage, due to its inertness and high energy density, which is an order of magnitude higher than that of wood chip.

How can we make biochar use as a soil amendment economically feasible? Probably by refined system thinking and development of the "biochar tool-box" and, if possible, stacking several tool functions for the same batch of biochar. Examples of interesting biochar tool functions are: as an additive in domestic animal food; in groundwater-protecting beds to absorb e.g. pesticides; for subsoil structure improvement; and as a bulk agent in latrine composting. We should use biochar where it makes a difference: Increase arable area by improving poor marginal soils with biochar or, perhaps more desirable, work with the third dimension and improve subsoils in areas with thin topsoil and compact subsoil, as found in Denmark for example.

Considering the astonishing crop yield increases obtained with biochar in tropical regions with sandy, acidic soils, it is possible that the most valuable rewards of biochar research in the temperate regions will be reaped in the tropics. The challenge is to overcome the problem of local funding shortages, since many of the regions with the highest needs of biochar also have a severe shortage of money.

We human beings are addicted to the thought of the silver bullet that will solve all our problems and allow us to continue with business as usual,



Participants in the seminar.

but this will probably never happen since the fundamental problems are at a system level. However, biochar is not a techno-fix but an entry to sustainable system

In the feedback forms, the seminar participants rated the event as very good (3.7) (scale of 1 = poor, 2 = Adequate, 3 = Good, 4 = Very good), while none of the issues in the feedback had a mean grade less than 3.0. Everyone ticked the option: "Would suggest this event to a colleague". This means that the event was highly successful and would be a good starting point for several-day conferences in future.

Thank you to everyone who participated and helped to make the event successful!

Priit Tammeorg and Tor Kihlberg
On behalf of the Organising Committee

Seminar 461

Organic farming systems as a driver for change

Time: 21-23 August

Place: Bredsten, Denmark

The seminar "Organic Farming Systems as a Driver for Change" was arranged in Bredsten, Denmark, on 21-23 August 2013, by NJF section 1 (Plants), in cooperation with the International Centre for Research in Organic Food systems (ICROFS) in Denmark, and the Centre for Organic Food and Farming (EPOK) at the Swedish University of Agricultural Sciences. 120 active researchers and advisors from 15 European countries, and three colleagues from as far away as the Republic of Korea, participated actively in presentations and discussions. 47 oral presentations, 33 actively discussed posters and visits to productive and inspiring organic farms made the conclusion easy: Research contributes to innovation and farmers believe in an organic future. More info at www.njf.nu

The seminar was organised on four tracks, called "Societal and economic viability"; "Transition to renewable resources"; "Nutrient sufficiency and management in farming systems"; and "Productivity and sustainable production levels in animal and crop production systems". Within each track, an invited expert contributed in all sessions to provide an overview, bring up central topics in the discussions and summarise the tracks in the final plenary session.

Niels Halberg, Director of ICROFS, led the final plenary discussion and presented the twin perspectives of research into organic farming systems. Researchers may either:

Develop organic agriculture as a laboratory for general agriculture, or
Develop organic agriculture to solve inherent challenges, and in relation to the four basic principles health, ecology, fairness and care (IFOAM).



Seminar secretary Kirsi Partanen, from Snellman Meat Company, Finland, presenting her paper about pig feeding.

As an example of the first perspective, Director Hallberg mentioned the success of significantly decreasing the use of antibiotics in organic dairy cows in Denmark to only 10% of the conventional level. Permaculture-inspired organic egg production, where laying hens are combined with orchards or coppiced willow as an energy crop, is an example of the second perspective. Both enterprises benefit from the other, since the trees or willows utilise the manure and weeding capacity of the hens, which in turn enjoy the shade and protection provided by the vegetation. Director Hallberg then asked whether the seminar had proved that organic farming systems are in fact a driver for change.

The four invited experts summarised some of the most inspiring and relevant results from the tracks and sessions that they followed. Important 'take home' messages were derived for each track. Susanne Padel from the Organic Research Centre in the UK pointed out that although the boundaries are fuzzy, research has a different role for different actors: Farmers and advisors need demonstrations and knowledge generation, whereas policy makers need an evidence base. Susanne left open the question of the role of research for researchers. She further pointed out a very important question to the researchers: Have we kept up with the extremely rapid development of agricultural structures, or are we too much bound by romantic images of small-scale farming? Specialisation is now a reality and farmers need to respond to dynamically evolving markets if they want to stay in business. Susanne proposed promoting research into positive long-term effects of organic farming, such as soil carbon stock and biodiversity. Farmers need good arguments to show how they can invest in sustainability.

Tommy Dalgaard from Aarhus University, Denmark, found many promising approaches among the contributions. He suggested more research into the effects of (bio)diverse systems, e.g. with respect to resilience to climate change and how to cover the temporal variations in energy and resource needs when renewable resources and energy become more common. Methods should be developed to assess trade-offs between services (e.g. producing energy) and multifunctionality.



The track experts during the final plenary discussion. From left: Tommy Dalgaard, Susanne Padel, Elizabeth Stockdale and Paolo Barberi.

Elizabeth Stockdale from Newcastle University, UK, challenged us to consider whether true 'stockless' organic farming in the long-term was possible or even desirable. Many of the presentations in the track had linked cropping and livestock systems through manure; more innovations are needed to optimise the balance between cropping and stock densities, often at regional, rather than farm, scale. Man-



The indoor scientific programme was complemented with excursions to organic Danish farms.

agement of nutrients cannot be considered alone, and raises issues covered in the other tracks, such as dinitrogen oxide emissions, soil physical conditions and consequences for plant nutrient uptake, and links between nutrient management strategies and selection of specific crops/varieties. Issues such as the proportion of home-produced versus purchased feed, demand for protein feed

and the cost of fertilisers have recently become concerns for conventional farming too, and organic farms and farmers have been frontrunners in inventing solutions such as integration of legumes in carefully designed crop rotations. However, organic farming may need to innovate further and find appropriate ways to sustainably integrate the use of human wastes into farming systems in order to fully close the nutrient cycle.

Important advice was given by Paolo Barberi, who suggested that future studies should compare the environmental performances of organic farming systems over time, instead of comparing conventional and organic systems. He was worried by several trends that threaten the diversity of organic farming, such as reduced diversity of habitats, species and varieties in specialist vegetable production, and increased use of concentrates and silage, reduced grazing, synchronisation of calving season and suboptimal working/living environment for workers and animals in specialist dairy farming. On the positive side, it was reported during the seminar that milk yields can be high even with 'only' 30% concentrates in the fodder ration, and new fodder sources and breeding approaches emphasising diversity are underway.

The seminar participants were generally very satisfied, mentioning in particular inspiring farm visits and engaged discussions during poster workshops as very good elements of the seminar. All posters had a short oral presentation during sessions organised along the four tracks. A proposal on another organic NJF seminar in four years was unanimously welcomed, and the Finnish Institute of Organic Farming offered to host the next seminar.

Anne-Kristin Løes,
Bioforsk Organic Food and Farming,
Chair of the Seminar Committee.

Seminar 464

Annual Autumn Meeting in Fur Animal Research 2013

Time: 28-30 August

Place: Reykjavik, Iceland

The Annual Autumn Meeting in Fur Animal Research 2013 was held at the Radisson Blue, Hotel Saga, Reykjavik, Iceland on 28-30 August. It was a successful meeting, with close to 100 participants. Most of the participants were from the Nordic countries, but we also had participants from Latvia and Lithuania, Holland, Spain and Italy. The scientific programme was divided into five sections: "Nutrition", "Veterinary", "Breeding and genetics", "Management and environment" and finally a "Welfare" section. We have tried to get participants from all layers of fur animal production, in other words not only researchers and advisors, but also fur breeders, feed producers, dealers in feed products, people from food authorities, etc. Therefore we divided the papers and posters into "scientific" and "technical". We had 30 oral presentations and 20 posters. Our annual prize for the best oral presentation went to Kári Gautason, Iceland, for his presentation on the topic "Response to selection for litter size in Icelandic mink" and the prize for the best poster went to Tove N. Clausen, Denmark, for the poster "It is possible to prevent fatty liver by nutritional supplements in a low protein diet in growing-furring mink".

The seminar also included a social programme with a visit to a power station and to joint dinners. There were a lot of fruitful discussions between the participants and the researchers during these events, which have led to new projects and collaborations between the Nordic countries.

The next Fur Animal Meeting will be held in Grenå, Denmark, on 30/9-3/10 2014. On the day before the annual meeting, a workshop on breeding and genetics will be held at the same venue.

Tor Mikael Lassén

Chairman of the Working Group.



Seminar 462

Does climate change demand a new approach to drainage design?

Time: 23-25 September

Place: Sarpsborg, Norway

The seminar "Does climate change demand a new approach to drainage design?" attracted a total of 57 participants, representing Norway (16), Sweden (20), Finland (10), Estonia (1), Latvia (2), Lithuania (1), Denmark (3), Ireland (1), Czech Republic (1), The Netherlands (1) and the United States (1).

- The main objective of the seminar was to exchange experiences concerning the different roles of drainage systems in the agricultural landscape. Many of the present day drainage systems are old, their functioning is being reduced and therefore in many cases they require replacement. The issue then is how to design and install new drainage systems. In the original design improving crop yield was the main priority, but nowadays environmental issues and greenhouse gas emissions also have to be taken into consideration in the dimensioning of drainage systems. Issues of a more technical nature, such as new installation technology and filter materials, must also be considered when implementing drainage systems.

The seminar was divided into three main sessions. The session during day one focused on topics related to subsurface drainage with respect to farm operations, its role in catchment hydrology and its effects on yield, nutrient loss and greenhouse gas emissions. The second day's session



Participants in the seminar (Photo by Toomas Tamm).



From left to right: Svein Skøien (President NJF), Henk Ritzema, Gary Sands, Lillian Øygarden and Johannes Deelstra (leader of Organising Committee) (Photo by Toomas Tamm).

focused on drainage implementation with respect to dimensioning, filter materials, cost-benefit aspects of drainage systems and other relevant issues, while the session on day three focused on climate change, the challenges for agriculture and the role of drainage within the Nordic/ Baltic context.

Each session was introduced by a keynote lecture presented by Professor Gary R. Sands, University of Minnesota, USA, on day one, Assistant Professor Henk Ritzema, Wageningen University and Research Centre, the Netherlands, on day two and Dr. Lillian Øygarden, Bioforsk Soil and Environment, Norway, on day three.

During day two of the seminar, an excursion was organised to Kalnes Agricultural College, where presentations and demonstrations were given on drainage installation equipment and materials related to drainage implementation.

A total of 31 oral presentations were given, covering the different session themes quite well ([link to pdf presentations](#)). The attendance at the seminar is proof of the increased attention to drainage and its many different aspects. There was a common understanding among the participants that there is a need for an increased focus on drainage issues in the future. To start with, many participants at the seminar will publish their presentations in a special issue of *Acta Agriculturae* during 2014. Other possibilities to keep focus on drainage issues are being explored at the moment.

Members of the Organising Committee:

Johannes Deelstra, Bioforsk, Norway
Ingrid Wesström, SLU, Sweden
Kirsten Schelde, Aarhus University, Denmark
Ainis Lagzdins, Latvia University of Agriculture, Latvia
Arvydas Povilaitis, Aleksandras Stulginskis University, Kaunas, Lithuania
Helena Äijö, Finnish Field Drainage Association, Finland
Sjur Prestegard, NILF, Norway
Svein Skøien, Østfold province, Norway



Demonstration of drainpipe installation equipment at Kalnes Agricultural College (Photos by Toomas Tamm).

Seminar 466
Optimising production in reindeer husbandry
Time: 23-24 October
Place: Tromsø, Norway

For the first time, a seminar on reindeer husbandry was arranged within the NJF organisation, as a sequel to the Nordic Council for Reindeer Husbandry Research (NOR) seminar series. NOR was founded in 1980 and actively promoted contact between reindeer herders and the research community within the Nordic countries and among Nordic researchers. In October 2012, NOR was formally closed as an organisation as the research questions were to be handled in the future by the Nordic Council for Research in Agriculture and Food (NKJ), with the intention of having a department for reindeer husbandry at the Nordic Research Organisation (NJF). This year's seminar "Optimising production in reindeer husbandry" embraced this intention by being the first reindeer research seminar under the NJF umbrella. The seminar gathered 54 participants, from research, management bodies, ministries and practical herding, representing Denmark, Sweden, Finland, Iceland and Norway. The Organising Committee, consisting of Øystein Ballari, Bioforsk, Norway, Birgitta Åhman, SLU, Sweden, Paivi Soppela, University of Lapland, Finland, Øystein Holad, UMB, Norway, Hanne Hansen, NJF and Rolf Rødven, Bioforsk, Norway, decided to focus the seminar on four main topics:

- Reindeer production and its natural basis - reindeer and pastures, climate change and the impact of large predators.
- Reindeer husbandry related to social and administrative structures
- Reindeer herding facing new land use activities
- The Arctic Bioeconomy initiative



The seminar was opened by NJF President Svein Skøien and Dr. Rolf Rødven, Bioforsk, and then Dr. Øystein Holad, UMB, chaired the first section. Dr Jouko Kumpula from RKTL (FIN) was the keynote speaker on the first topic. He introduced his talk by describing general patterns in reindeer production and climate change, and used Finnish case studies to illustrate how climate effects are moulding the industry together with density dependence and human activity and disturbance. This was followed by a presentation of the "Changing Tundra" project by Tim

Dr. Jouko Kumpula showed how reindeer density and abiotic factors influence the biomass of lichen.

Horstskotte. Dr. Torkild Tveraa, NINA, and Prof. Birgitta Åhman, Swedish University of Agricultural Sciences (SLU), followed by two presentations and a plenary discussion on how different methods give different estimates of predation on reindeer. The latter highlighted the importance of a forum for discussing aspects of reindeer research.



Drs. Sveinn Magerisson and Sígurn Smáradóttir before their presentation on the Arctic Bioeconomy initiative.

The next section, on the Arctic Bioeconomy, was chaired by Dir. Øystein Balari, Bioforsk. Dr. Sveinn Margeirsson, Food and Biotech R&D Institute of Iceland (Matis), led us through the Arctic Bioeconomy initiative in his keynote talk and suggested ideas on how to introduce this into reindeer husbandry. Thereafter Prof. Olli Taivonen, University of Helsinki, and Dr. Bård-Jørgen Bårdsen, NINA, demonstrated two different models for optimisation of harvesting strategies in reindeer husbandry. While approaching the subject in two different ways, both emphasised the importance of structured slaughtering and age composition. Dr. Vera Hausner, UiT Arctic University of Norway (NOR), started day two by illustrating the importance of social structures and *siida* (herding unit) relations in how decisions are made, and how this affects biological production and family finances. This was placed in the context of how community-based management is carried out in other pastoralist societies. Thereafter Dr. Helge Berglann, NILF, illustrated how quota regimes can be adopted to achieve different outcomes. Dr. Marius Warg Næss (CICERO) concluded the session by demonstrating how community-based reindeer management also involves risk management due to climate or administrative changes. The session was chaired by Prof. Birgitta Åhman, SLU.

The last session of the seminar, on new land use activities, was chaired by Dr. Grete H.M. Jørgensen, Bioforsk, who stepped in at short notice. Dr. Anna Skarin, Swedish University of Agricultural Sciences, led us through changes in understanding disturbance and obstructions and reindeer husbandry in the last 40 years. Thereafter PhD student Therese Sivertsen, SLU, introduced her project on how reindeer and brown bears interact in land use patterns, using GPS-marked animals. Dr. Svein Morten Eilertsen, Bioforsk, concluded the session by showing how environmental impact assessment can be used as a tool in reindeer husbandry. In addition to the oral presentations, posters were presented in the coffee breaks.

Dir. Øystein Ballari concluded the scientific part of the seminar and then Prof. Birgitta Åhman led a workshop on the future of reindeer husbandry seminars. The participants were very content with how the NOR seminars have been adopted into the NJF organisation, without losing their distinct character. Likewise, the high quality of the presentations from both a scientific and applied point of view were emphasised. We agreed to continue the traditional NOR seminars within the Reindeer Husbandry section, with the next seminar being arranged in Finland next year. Geographical information systems (GIS) will be a key subject at that seminar. Dr. Paivi Soppela agreed to be head of the Planning Committee.

The Organising Committee would like to thank NKJ for financial support and speakers and participants for great contributions during the seminar.



Prof. Birgitta Åhman showed how corralling is associated with health risks in reindeer herding.

Seminar 468

Suction traps in studying the distribution and occurrence of insects and forecasting pests and vector-borne viruses

Time: 30 October

Place: Kristianstad, Sweden

This seminar was held at Bäckaskogs Castle, Kristianstad, southern Sweden, on 30 October. There were 30 participants from 12 countries. Besides European countries, there were three participants from China, two from South Africa and one from New Zealand.

The aim for the seminar was to provide an overview of 50 years' use of suction traps for studying insect migration and related applications. Roy Taylor, a pioneering ecologist from Rothamsted, showed that by understanding factors affecting the distribution of aphids in time and space, the use of insecticides in their control could be rationalised. He developed a network of suction traps for this purpose. The use of suction traps of the Rothamsted design has gradually expanded throughout Europe and several have also been erected in China and South Africa recently. The data are being used for a huge range of projects spanning the fundamental-applied spectrum. Forecasting and warning systems for pests and diseases will become even more important in the near future with implementation of the Integrated Pest Management (IPM) directive within the EU.

At the seminar there were presentations from all participating countries. These presentations gave a good overview of suction traps and applications. Topics covered included forecasting the incidence of aphids and the viruses they carry; monitoring insecticide resistance; and predicting the impacts of



Bäckaskogs Castle.



Dr Richard Harrington, Rothamsted, UK.



Dr Liang, China.



Dr Anna Berlin, Swedish University of Agricultural Sciences gave a presentation on fungi spores found in waste water from suction traps.

environmental changes on aphids and other insects. This is of interest to growers, consultants, agro-chemical companies and scientists wishing to know more about one of the most important families of crop pests in the world and how to rationalise the use of insecticides to reduce their impact. The seminar was organised in collaboration between the Nordic Association of Agricultural Scientists (NJF), the former EXAMINE Project and the Swedish University of Agricultural Sciences SLU).

Dr Richard Harrington gave a presentation on "The Rothamsted Insect Survey: Gold standard aphid monitoring", in which he reported on 50 years' use of suction traps in UK. The Rothamsted suction trap first began operating on 29 April 1964, after much background work by Roy Taylor and colleagues. A trap network was developed and currently there are 11 in England and 4 in Scotland. Dr. Harrington mentioned data uses that span the full fundamental to applied spectrum including: annual forecasts of phenology and abundance of pest species; within-season reports on abundance, insecticide-resistance status and crop virus content; virus epidemiology and control decision support; population genetics and gene flow studies; diversity studies; and prediction of the impacts of climate change.

Pro vice-Chancellor Göran Ståhl, Swedish University of Agricultural Sciences, gave a presentation on "Environmental monitoring and assessment in Sweden". He mentioned that initially monitoring activities mainly focused on the availability of resources, such as forests, and health-related issues,

such as water quality. During the second half of the last century, the focus on environmental issues gradually increased, especially following influential global agreements such as the Geneva Convention on long-range trans-boundary air pollutions, the Climate Convention and the Convention on Biological Diversity. He also mentioned that the Swedish monitoring activities have largely emanated from national initiatives and that today's trend is for an increasing part of this work to be coordinated with international programmes.

Prediction of vector-borne viruses in different crops was described by Associate Professor Kerstin Krüger, South Africa, in her presentation "The South African suction-trap network: First aphid monitoring results"; by Dr Jon Pickup, SASA, UK, in his presentation "Use of aphid suction traps and seed potato classification data for forecasting virus risk in Scottish seed potatoes"; and by Associate Professor Roland Sigvald, Swedish University of Agricultural Sciences, Sweden, in his presentation "Monitoring insects with suction traps in Sweden in forecasting pests and diseases". Forecasting of potato viruses in Ireland was described by Dr Stephen Jess in his presentation "The phenology of aphid virus vectors in Northern Ireland and implications for virus transmission in seed potato crops" and by Dr Jan Luimes in his presentation "Monitoring of aphids in Holland". There were also presentations on aphid monitoring systems by participants from Poland, Czech Republic, Lithuania, Greece, New Zealand, Finland, France and China.

In China, the monitoring system using suction traps started in 2008. By now the suction trap network has been established throughout China and includes 32 suction traps, set up in Beijing city and the provinces of Heilongjiang, Jilin, Liaoning, Hebei, Shandong, Henan, Jiangsu, Shaanxi and Guangxi. The network has been used to monitor the aerial population dynamics of the soybean aphid *Aphis glycines* and four cereal aphid species. The suction traps are operated in the planting season for wheat and soybean, generally from March to October. In South Africa, too, the system of suction traps has been expanded during recent years.

The suction traps are not only used for predicting aphids and virus diseases. In the UK, they are also being used to study insecticide resistance in the aphid species *Myzus persicae* and *Sitobion avenae* and increased abundance of *Schizaphis* species. The importance of long-term data in studying the effects of climate change on occurrence and distribution of insects was pointed out by participants from most countries. The presentations gave a very good overview of the data used for a huge range of projects spanning the fundamental-applied spectrum. Besides predicting insects and forecasting virus diseases of different crops, there was also an example of fungi spores found in wastewater from suction traps in Sweden.

The ensuing discussion on monitoring systems using suction traps provided a good base for future project planning and the use of suction traps in monitoring systems. Participants were very satisfied with the programme, the discussions and the conference location at Bäckaskogs Castle.



At the Conference dinner, the Mayor of Kristianstad gave a presentation of activities in relation to agriculture in Kristianstad.

At the conference dinner, the Mayor of Kristianstad gave a presentation on activities in relating to agriculture in Kristianstad. We hope that the seminar will increase networking and collaboration not only between researchers from participating countries, but also between policymakers, advisors, representatives from companies and farmers' associations. More information on the seminar can be found on the NJF website under "Publications and presentations".

Seminar 465

IPM in Nordic and Baltic berry crops

Time: 12-13 November

Place: Copenhagen, Denmark

The seminar was organised by the working group on Plant Protection in Sustainable Berry Production in NJF section Plants. The Organising Committee consisted of Lene Sigsgaard, University of Copenhagen, Denmark, Birgit Jensen, University of Copenhagen, Denmark, Nina Trandum, Bioforsk, Norway, Päivi Parikka, MTT, Finland and Birgitta Svensson, SLU, Sweden. The meeting was hosted by the Department of Plant and Environmental Sciences, University of Copenhagen, and the local organiser was Associate Professor Lene Sigsgaard, Department of Plant and Environmental Sciences, UCPH.

The seminar was the fourth in a series starting in 2003, and had 37 participants from Norway, Sweden, Finland, Denmark, Latvia, UK, Switzerland, Brazil and the US. Twenty oral presentations were given and eight posters presented. Participants were from universities, sector research, advisory services and industry.

Invited speakers were:

Catherine Baroffio, Agroscope, Switzerland, who gave a talk titled: "Lessons from 3 years with *Drosophila suzukii* in Switzerland".

Robert Saville, East Malling Research, UK, who presented a talk titled: "Integrated pest and disease management programmes on raspberry and strawberry crops in the UK".



"Invasive species and IPM"

The first session was started by the two invited speakers and both presentations gave good opportunities for discussions. *Drosophila suzukii* is a threat to berry production and its expansion to mountain areas in Switzerland that have a similar climate to the Nordic and Baltic countries is cause for concern. The presentation covered the biology of the pest, its expansion, the crops and wild plants concerned and IPM measures developed by Agroscope. Trapping is a major element of control and forecasting and this issue linked the presentation by Dr. Baroffio to session three, where another project on trapping as a control measure was presented.

At East Malling Research, IPM strategies for pests and diseases of apple, plum and cherry, blackcurrant, raspberry and strawberry are being developed. The presentation by Dr. Saville gave an insight into the many elements of importance in developing an IPM programme, including the pest/disease biology, site, cultivation, monitoring, cultural practice, planting material, treatment options, harvest and storage (the IPDM toolbox). Farmer acceptance, yield and quality are all crucial.

A presentation by Birgitta Svensson, SLU, on IPM in strawberries, including both diseases and pests, described Swedish experiences, including the use of demonstration farms. Finally Tuomo Tuovinen, MTT Agrifood Research, Finland, gave a presentation on development of biological control against the strawberry tarsonemid mite, covering two decades of research into the biology of the pest, its phytoseiid natural enemies and integration with other control measures.

"Diseases: Their biology, novel control methods and IPM"

Session two included presentations on powdery mildew inoculum sources (David Gadoury), IPM (Belachew Asalf) and control with UV-B light (Arne Stensvand), on *Botrytis* in Latvia (Julija Volkova), on survival of *Colletotrichum acutatum* in plant residues (Päivi Parikka), and on the fate and activity of fungal BCAs applied to strawberry flowers and their potential for integration with fungicides (Birgit Jensen).

"Mass trapping for pest control in strawberries and raspberries"

Session three comprised two presentations on developing traps for management of strawberry blossom weevil and European tarnished plant bug in organic strawberry and raspberry: Atle Wibe gave an overview of "Softpest Multitrap", a CORE organic project, and Baiba Ralle gave more detailed results from the Latvian part of the project.

"Wild bees"

Session three also included a presentation concerning a study on the spatial distribution of wild bees in strawberry fields in three countries. The effects of distance to field margin on abundance and diversity were discussed and placed in an IPM perspective (Erica J. Ahrenfeldt).

"Improved biological control for Integrated Pest Management in fruits and berries"

Session four covered the IMBICONT project: "Improved Biological Control

for Integrated Pest Management in Fruits and Berries”, a collaboration between UCPH and University of Sao Paulo, Brazil, with a presentation of the project (Jørgen Eilenberg), studies on predators (Stine K. Jacobsen), entomopathogenic fungi (Anja A. Wynns) and micro-economy of IPM (Jens E. Ørum).

“Emerging diseases of raspberries and strawberries, biennial cropping in raspberry for IPM, cropping practices effect on strawberry tortricids”:

Session five contained the last three presentations: on emerging diseases of strawberries and raspberries in Finland (Päivi Parikka); on the possibilities for pest, weed and disease management gains from biennial raspberry cropping (Nina Trandem); and on cropping practice effects on the strawberry tortricid, its natural enemies and the presence of nematodes (Lene Sigsgaard).

A final plenary session for summing up challenges, conclusions and future research started with short presentations of knowledge gaps and future research needs as identified by the advisory services (Nauja L. Jensen (DK), Andreas Kronhed (S), Dan H. Christensen (N) and Tuija Tanska (F)). These presentations gave the audience food for thought and further insights into the challenges and opportunities for IPM in berries and were an inspiration to guide future research in berries. They were followed by a discussion before the seminar closed.

Social events

All breaks were used for very active discussions and interaction between participants. The first day concluded with a poster session with drinks, and again there was very good participation. Dinner was arranged in Orangeriet, by the King's Garden (Kongens Have). The second day ended with a lunch. Social events were organised by secr. Annette Lange, UCPH.

Summary and conclusions

The number of participants was modest, reflecting the specialist topic, as in the three previous meetings organised by this working group. The benefit of smaller group size is that a greater proportion of the participants can participate in discussions. The participants included scientists, students, advisors and representatives from industry, which offered the opportunity to discuss IPM across actors. Students who participated were very happy to have had this opportunity to discuss their work internationally and meet experts. This was the first time the seminar of this working group included all berries, not just strawberry. Strawberry is the major berry crop and dominated the presentations, but other berries, especially raspberries, were also well represented. The seminar stressed that biological knowledge of the pest organisms is at the core of IPM and that research on IPM in berries requires discussions across pest groups.

Outlook 2014

<i>NJF No</i>	<i>Tentative seminars 2014</i>	<i>Date and place</i>
471	Recent advances in IWM of perennial and annual weeds, with a special emphasis on the role of crop-weed interactions	27-29 January, Uppsala, Sweden
467	Economic framework conditions, productivity and competitiveness of Nordic and Baltic agriculture and food industries	12-13 February, Tartu, Estonia
469	Agriculture and Water Quality – Future Challenges for Monitoring	19-21 March, Sola/ Stavanger Norway
474	Nordic heritage varieties of cereals. History, cultivation, breeding, milling, baking, brewing, food quality and health	15-17 July, Mariehamn, Åland, Finland
480	Management strategies for reduced of N ₂ O emissions from North European agricultural soils	9 September, Falkenberg, Sweden
475	Maize in a cooler climate - from seed to feed	24-25 September, Kristianstad Sweden
482	Fur animals	30th September – 3rd October, Grenaa, Denmark
476	Economics of animal health and welfare	2-3 October, Hämeenlinna, Finland
479	Reindeer herding and land use management - Nordic perspectives	20-21 October, Arctic Centre, University of Lapland, Finland
473	Nordic Agri-environmental expertise for development	22-23 October, Forssa, Finland
478	Nordic-Baltic Fusarium seminar- Challenges and Recent updates	18-19 November, Helsinki, Finland
477	Agromek & NJF joint seminar: Future arable farming and agricultural engineering	24-25 November, Herning, Denmark

NJF:s Board

Chairman:

Svein Skøien

County Governor Østfold, Norway
Department of Agriculture
Postboks 325, NO-1502 Moss
http://www.fmos.no
Phone: +47 69247533, Mobile: +47 99359159
e-mail: *svein.skoien@fylkesmannen.no*

Irmeli Markkula

MTT, Plant Production Research, Planta, FI-31600 Jokioinen, Finland
Phone: +358 2953 17496
e-mail: *irmeli.markkula@mtt.fi*

Hanne Helene Hansen (until 2013 10 31)

University of Copenhagen, Department of Large Animal Sciences
Grønnegårdsvej 2, DK-1870 Fredriksberg C, Denmark
Phone: +45 3533 3083. Fax: +45 3533 3055.
e-mail: *han@life.ku.dk*

Egil Prestløkken (from 2013 11 01)

Department of Animal and Aquacultural Sciences,
Norwegian University of Life Sciences
P.O. Box 5003, 1432 Ås, Norway.
Phone: +47 6496 5205
e-mail: *egil.prestlokken@umb.no*

Kristiina Regina

MTT, Plant Production Research, Planta, FI-31600 Jokioinen, Finland
Phone +358 2953 17665
e-mail: *kristiina.regina@mtt.fi*

Sjur Spildo Prestegaard

Norwegian Agricultural Economics Research Institute (NILF)
P.O. Box 8024 Dep., NO-0030 Oslo, Norway
Phone: +47 22367268, Fax: +47 22367299, Mobile: +47 416 14 094
e-mail: *sjur.prestegard@nilf.no*

Ole Green (until 2013 04 30)

Kongskilde Industries A/S
Niels Pedersens Allé 2, DK-8830 Tjele, Denmark
Phone: +45 3368 3500
e-mail: *olg@kongskilde.com*

Snorri Sigurdsson (*from 2013 05 01*)
Danish Agricultural Knowledge Center,
Department of Dairy and Cattle Farming
Agro Food Park 15, DK-8000 Aarhus, Denmark
Phone: +45 4059 9702
e-mail: sns@vfl.dk

Birgitta Åhman (*from 2013 09 06*)
Swedish University of Agricultural Sciences
Dept of Animal Nutrition and Management, Reindeer Husbandry
P.O. Box 7024, SE-750 07 Uppsala, Sweden
Phone: +46 18 67 23 08, Mobile: +46 70 2515307
e-mail: Birgitta.Ahman@slu.se

Secretary General:

Roland Sigvald NJF's Secretary General
Nordic Association of Agricultural Scientists,
c/o Royal Swedish Academy of Agriculture and Forestry
P.O. Box 6806, SE-113 86 Stockholm
Phone: +46 18 34 14 20, Mobile: +46 70 661 14 79

E-mail: njf@njf.nu

NJF – Assembly of Delegates

Chairman:

Svein Skøien, NJF's President

Kristiina Regina, NJF Finland and section Environment

NJF vice chair (*from 2013 09 06*)

Hanne Helene Hansen, NJF Denmark and section Animals

(*until 2013 10 31*)

Johannes Ravn Jørgensen, NJF Denmark (*from 2013 11 01*)

Torfi Johannesson, NJF Iceland

Kirsty McKinnon, NJF Norway

Anders Larsolle, NJF Sweden

Heldur Peterson, NJF Estonia

Peteris Rivza, NJF Latvia

Linas Stabingis, NJF Lithuania

Irmeli Markkula, section Plants

Egil Prestløyken, section Animals (*from 2013 11 01*)

Ole Green, section Technology (*until 2013 04 30*)

Snorri Sigurdsson, section Technology (*from 2013 05 01*)

Sjur Spildo Prestegard, section Economics

Birgitta Åhman, section Reindeer (*from 2013 09 06*)

Secretary:

Roland Sigvald, NJF's Secretary General

NJF – Honorary Members

DENMARK

A. Neimann-Sørensen, professor – 1999

FINLAND

Eeva Tapio, professor – 1987

Erkki Oksanen, professor – 1987

NORWAY

Ottar Jamt, direktør – 1991

Lars Sjøflot, professor – 2006

SWEDEN

Jan Rendel, professor – 2001

Tord Eriksson, agronomist – 2008

NJF – National Associations

DENMARK

Chairmen

Hanne Hansen (*until 2013 10 30*)

University of Copenhagen, Department of Large Animal Sciences
Grønnegårdsvej 2, DK-1870 Frederiksberg C., Denmark
Phone: +45 3528 3083, e-mail: han@life.ku.dk

Johannes Ravn Jørgensen (*from 2013 11 01*)

Aarhus University, Department of Agroecology
Forsøgsvej, DK-4200 Slagelse, Denmark
Phone: +45 87158314, e-mail: Johannes.Jorgensen@agrsci.dk

Members of National Board

PLANTS:

Johannes Ravn Jørgensen

Aarhus University, Department of Agroecology
Forsøgsvej, DK-4200 Slagelse, Denmark
Phone: +45 87158314, e-mail: Johannes.Jorgensen@agrsci.dk

ANIMALS:

Hanne Hansen (*until 2013 10 30*)

University of Copenhagen, Department of Large Animal Sciences
Grønnegårdsvej 2, DK-1870 Frederiksberg C., Denmark
Phone: +45 3528 3083, e-mail: han@life.ku.dk

ENVIRONMENT:

Kirsten Schelde

Aarhus University, Department of Agroecology, Blichers Allé 20
Postboks 50, DK-8830 Tjele, Denmark
Phone: +45 8715 7712, email: Kirsten.Schelde@agrsci.dk

ECONOMICS:

Stine Hjarnø Jørgensen

Department of Business Management;
Knowledge Centre for Agriculture
Agro Food Park 15, DK-8200 Aarhus N, Denmark
Phone: +45 8740 5176, e-mail: shj@vfl.dk

TECHNOLOGY:

Ole Green (*until 2013 04 30*)

Kongskilde Industries A/S
Niels Pedersens Allé 2, DK-8830 Tjele, Denmark
Phone: +45 3368 3500, e-mail: olg@kongskilde.com

Snorri Sigurdsson (*from 2013 05 01*)
Danish Agricultural Knowledge Center,
Department of Dairy and Cattle Farming
Agro Food Park 15, DK-8000 Aarhus, Denmark
Phone: +45 4059 9702, e-mail: *sns@vfl.dk*

ESTONIA

Chairman: Lecturer **Heldur Peterson**
Estonian Academic Agricultural Society,
Estonian University of Life Sciences
Fr.R.Kreutzwaldi 1, EE-51014 Tartu, Estonia
Phone: +372 7 313 447, Mobile: +372 5119632,
e-mail: *heldur.peterson@emu.ee*

Members of National Board

Toomas Tamm
Estonian University of Life Sciences
Phone: +372 7313130, Mobile: +372 5537901,
e-mail: *toomas.tamm@emu.ee*

Ragnar Leming
Estonian University of Life Sciences
Phone: +372 7313444, Mobile: +372 53447473,
e-mail: *ragnar.leming@emu.ee*

FINLAND

Chairman: **Kristiina Regina**
MTT, Plant Production Research, Planta , FI-31600 Jokioinen, Finland
Phone: +358 2953 17665, e-mail: *kristiina.regina@mtt.fi*

Vice chair: **Irmeli Markkula**
MTT, Plant Production Research, Planta, FI-31600 Jokioinen, Finland
Phone +358 2953 17496, e-mail: *irmeli.markkula@mtt.fi*

Secretary: **Kaija Hakala**
MTT, Plant Production Research, Planta, FI-31600 Jokioinen, Finland
Phone: +358 2953 17169, e-mail: *kaija.hakala@mtt.fi*

Membership register: **Pirjo Mantere-Mäki**
MTT, Service unit, Kartano,
Humppilantie 14, FI-31600 Jokioinen, Finland
Phone: +358 2953 17493, e-mail: *pirjo.mantere-maki@mtt.fi*

Members of National Board

PLANTS

Irmeli Markkula

MTT, Plant Production Research, Planta, FI-31600 Jokioinen, Finland
Phone: +358 2953 17496, e-mail: *irmeli.markkula@mtt.fi*

ENVIRONMENT

Kristiina Regina

MTT, Plant Production Research, Planta, FI-31600 Jokioinen, Finland
Phone: +358 2953 17665, e-mail: *kristiina.regina@mtt.fi*

ANIMALS

Katri Karkinen

Saimaankatu 60 B as 29, FI-15140 Lahti, Finland
Phone: +358 400 654068, e-mail: *katri.karkinen@lammasoja.net*

ECONOMICS

Jarkko Niemi

MTT, Economic Research, Economics and Social Sciences,
Kampusranta 9, FI-60320 Seinäjoki, Finland
Phone: +358 2953 17550, e-mail: *jarkko.niemi@mtt.fi*

TECHNOLOGY

Juha Suutarinen

MTT, Economic Research, Economics and Social Sciences,
Latokartanonkaari 9, FI-00790 Helsinki, Finland
Phone: +358 2953 17786, e-mail: *juha.suutarinen@mtt.fi*

ICELAND

Chairman: **Torfi Jóhannesson**

Ministry of Enterprises and Innovation,
Skulagata 4, 101 Reykjavik, Iceland
Phone: +354 545 9700, e-mail: *torfi@vesturland.is*

Vice chair: **Snorri Sigurðsson**

The Knowledge Centre for Agriculture,
Agro Food Park 15, DK-8200 Aarhus N, Denmark
Phone: +45 8740 5000, Fax: +45 8740 5010, e-mail: *sns@vfl.dk*

Secretary: **Snorri Sigurðsson**

The Knowledge Centre for Agriculture,
Agro Food Park 15, DK-8200 Aarhus N, Denmark
Phone: +45 8740 5000, Fax: +45 8740 5010, e-mail: *sns@vfl.dk*

Cashier and Membership register: **Guðmundur Jóhannesson**

The Agricultural Association of South Iceland, SouthAgri,
Austurvegi 1, IS-800 Selfoss, Iceland

Phone: +354 480 1800, Fax: +354 480 1818, e-mail: *mundi@bssl.is*

Members of National Board

PLANTS

Guðni Þorvaldsson

The Icelandic Agricultural Advisory Centre,
Austurvegi 1, IS-800 Selfoss, Iceland

Phone: +354 516 5000, e-mail: *mundi@rml.is*

ANIMALS

Jóhannes Sveinbjörnsson

The Agricultural University of Iceland,
Keldnaholt, IS-112 Reykjavík, Ísland

Phone: +354 591 1500, Fax: +354 591 1501, e-mail: *jois@lbhi.is*

ENVIRONMENT

Samson Bjarnar Harðarson

The Agricultural University of Iceland,
311 Hvanneyri, Ísland

Phone: +354 433 5000, Fax: +354 433 5001, e-mail: *samson@lbhi.is*

TECHNOLOGY

Snorri Sigurðsson

The Knowledge Centre for Agriculture,
Agro Food Park 15, DK-8200 Aarhus N, Denmark

Phone: +45 8740 5000, Fax: +45 8740 5010, e-mail: *sns@vfl.dk*

ECONOMICS

Guðmundur Jóhannesson

The Icelandic Agricultural Advisory Centre,
Austurvegi 1, IS-800 Selfoss, Iceland

Phone: +354 516 5000, e-mail: *mundi@rml.is*

LATVIA

Chairman: **Peteris Rivza**

Latvia University of Agriculture
Liela str. 2, Jelgava, LV-3001, Latvia

Phone: +371 63005633, Fax: +371 63005685,
e-mail: *Peteris.Rivza@llu.lv*

Vice Chair: **Aldis Karklins**

Latvia University of Agriculture, Faculty of Agriculture,
Institute of Soil and Plant Sciences

Phone: +371 63005634, e-mail: *Aldis.Karklins@llu.lv*

Members of National Board

PLANTS

Biruta Bankina

Latvia University of Agriculture
Faculty of Agriculture
Institute of Soil and Plant Sciences
Phone: +371 63021985, e-mail: *Biruta.Bankina@llu.lv*

ANIMALS

Liga Paura

Latvia University of Agriculture
Faculty of Information Technologies
Department of Control Systems
Phone: +371 63022037, e-mail: *Liga.Paura@llu.lv*

ENVIRONMENT

Viesturs Jansons

Latvia University of Agriculture
Faculty of Rural engineering
Department of Environmental Engineering and Water Management
Phone: +371 63029851, e-mail: *Viesturs.Jansons@llu.lv*

ECONOMICS

Baiba Rivza

Latvia University of Agriculture
Faculty of Economics
Department of Economics
Phone: +371 29254469, e-mail: *Baiba.Rivza@llu.lv*

TECHNOLOGY

Gints Birzietis

Latvia University of Agriculture
Faculty of Engineering
Motor Vehicle Institute
Phone: +371 29176304, e-mail: *Gints.Birzietis@llu.lv*

LITHUANIA

Chairman: **Linas Stabingis**

Institute of Economics, Accounting and Finance,
Faculty of Economics and Management,
Aleksandras Stulginskis University
Universiteto 10-211, Akademija, 53361, Kaunas distr. Lithuania
Phone: +370-37-752249, mobile: +370-698-25538,
e-mail: *linas.stabingis@asu.lt*

Members of National Board

PLANTS

Sigitas Lazauskas

Department of Plant Nutrition and Agroecology,
Institute of Agriculture,
Lithuanian Research Centre of Agriculture and Forestry
Phone: +370-347-37193, e-mail: sigislaz@lzi.lt

ANIMALS

Alvydas Šarlauskas

Head of Division of Academic Mobility
Lithuanian University of Health Sciences,
Phone: +370-37-361981, Mobile: +370-687-86876,
e-mail: alvydas.sarlauskas@ismuni.lt

ENVIRONMENT

Algirdas Radzevicius,

Institute of Hodrotechnical Engineering,
Faculty of Land and Water Management,
Aleksandras Stulginskis University
Phone: +370-37-752393, Mobile: +370-687-36574,
e-mail: algirdas.radzevicius@asu.lt

ECONOMICS

Darius Jazepcikas

Institute of Economics, Accounting and Finance,
Faculty of Economics and Management,
Aleksandras Stulginskis University
Phone: +370-37-752306, e-mail: darius.jazepcikas@asu.lt

TECHNOLOGY

Kestutis Navickas

Institute of Energetics and Biotechnological Engineering
Faculty of Agricultural Engineering,
Aleksandras Stulginskis University
Phone: +370-37-752219, e-mail: kestutis.navickas@asu.lt

NORWAY

Chairman: **Kirsty McKinnon,**

Bioforsk Økologisk, Gunnars veg 6, NO-6630 Tingvoll, Norway
Phone: +47 404 80 522, e-mail: kirsty.mckinnon@bioforsk.no

Secretary: **Alana Lennon**

Bioforsk Økologisk, Gunnars veg 6, NO-6630 Tingvoll, Norway
Phone: +47 909 13 879. Fax: +47 71534405,
e-mail: njf.norge@secretary.net

Members of National Board

PLANTS

Kirsty McKinnon (se under Chairman, above)

ANIMALS

Egil Prestløkken

Norwegian University of life sciences (UMB), Dept. of Animal-
and Aquacultural Sciences (IHA)

P.O. Box 5003, NO-1432 Ås, Norway

Phone: +47 64965205, Mobile: +47 905 18 568,

e-mail: egil.prestlokken@umb.no

ENVIRONMENT

Marianne Bechmann

Bioforsk, Soil and Environment,

Frederik A. Dahls vei 20, NO-1432 Ås, Norway

Phone: +47 92498945, Mobile: 924 98 945.

e-mail: marianne.bechmann@bioforsk.no

ECONOMICS

Sjur Spildo Prestegard

Norwegian Agricultural Economics Research Institute (NILF),

P.O. Box 8024, Dep., NO-0030 Oslo, Norway

Phone: +47 22367268. Fax: +47 22367299,

Mobile: +47 416 14 094, e-mail: sjur.prestegard@nilf.no

TECHNOLOGY

Nils Bjugstad

Norwegian University of life sciences (UMB),

Dept. of Mathematical Sciences and Technology (IMT)

P.O. Box 5003, NO-1432 Ås, Norway

Phone: +47 64965426, Fax: +47 64965401,

Mobile: +47 907 40 307, e-mail: nils.bjugstad@umb.no

SWEDEN

Chairman: **Anders Larsolle**

Swedish University of Agricultural Sciences,

Dep. of Energy and Technology,

P.O. Box 7032, SE-750 07 Uppsala, Sweden

Phone: +46 18 67 34 46, e-mail: Anders.Larsolle@slu.se

Secretary: **Fredrik Fogelberg**

JTI, P.O. Box 7033, SE-750 07 Uppsala, Sweden

Phone: +46 10 516 69 08, e-mail: fredrik.fogelberg@jti.se

Cashier and Membership register: **Britt-Louise Atterdagsdotter Hult**

Dep. of Soil and Environment, SLU,
P.O. Box 7014, SE-750 07 Uppsala
Phone: +46 18 67 12 11, Fax: +46 18 67 27 95,
e-mail: *britt-louise.atterdagsdotter@slu.se*

Members of National Board

PLANTS

Anita Gunnarsson

Swedish Rural Economy and Agricultural Societies,
P.O. Box 9084, SE-291 09 Kristianstad, Sweden
Phone: +46 44 22 99 00,
e-mail: *Anita.Gunnarsson@hushallningssallskapet.se*

ENVIRONMENT

Helena Aronsson

Swedish University of Agricultural Sciences,
Dep. of Soil and Environment
P.O. Box 7014, SE-750 07 Uppsala, Sweden
Phone: +46 18 67 24 66, e-mail: *Helena.Aronsson@slu.se*

ANIMALS

Elisabet Nadeau

Swedish University of Agricultural Sciences.
Dep. of Animal Environment and Health
P.O. Box 234, SE-532 23 Skara, Sweden
Phone: +46 511 671 42, e-mail: *Elisabet.Nadeau@slu.se*

ECONOMICS

Karin Hakelius

Swedish University of Agricultural Sciences,
Dep. of Economics
P.O. Box 7013, SE-750 07 Uppsala, Sweden
Phone: +46 18 67 17 45, e-mail: *karin.hakelius@slu.se*

TECHNOLOGY

Anders Larsolle

Swedish University of Agricultural Sciences,
Dep. of Energy and Technology,
P.O. Box 7032, SE-750 07 Uppsala, Sweden
Phone: +46 18 67 34 46, e-mail: *Anders.Larsolle@slu.se*

Sections

Plants

Responsibility area: The section Plants comprises crop production (including energy crops), plant protection and soil science. Research focuses on systems to control and document standards for food safety, food quality and cultivation techniques throughout the production chain. Improved cropping systems are also needed to satisfy the need for higher productivity and product quality with an associated low environmental impact. In plant protection the area of responsibility comprises conventional, integrated and organic cropping systems. This includes the biology of pests and diseases and the use of host resistance, biological, chemical and mechanical control as well as integrated pest management (IPM). Abiotic stress factors causing yield reductions, such as winter damage, are also important. In horticulture the research areas include both outdoor production as well as production in controlled environments (e.g. glasshouse crops). Special emphasis is given to the quality of products and aspects of cultivation typical to Nordic countries. Under soil science the focus is on well-functioning soil ecology to ensure the transformation of nutrients, mediate the transport of water and gases and to provide long lasting healthy and fertile soil.

Chair: Irmeli Markkula

MTT, Plant Production Research,
Planta, FI-31600 Jokioinen, Finland
Phone: +358 29 531 7496, Fax: +358 20 772 040
e-mail: irmeli.markkula@mtt.fi

Vice chair: Johannes Ravn Jørgensen

Department of Agroecology,
Aarhus University, Forsøgsvej 1, DK-4200 Slagelse, Denmark
Phone: +45 8715 8314
e-mail: Johannes.Jorgensen@agrsci.dk

Secretary: Anita Gunnarsson

HS Project & Development
Swedish Society for Agriculture,
P.O. Box 9084, SE-291 09 Kristianstad, Sweden
Phone: +0046 76 140 60 92
e-mail: anita.gunnarsson@hushallningssallskapet.se

Members of section Board

Guðni Þorvaldsson

Agricultural University of Iceland,
Keldnaholti 112, Reykjavík, Iceland
Phone: +354 4335253, Fax: +354 4335001
e-mail: gudni@lbhi.is

Kirsty McKinnon

Bioforsk Økologisk/Bioforsk Organic Food and Farming Division
NO-6630 Tingvoll, Norway
Phone: (+47) 404 80 522, Switchboard: (+47) 452 30 200,
www.bioforsk.no
e-mail: kirsty.mckinnon@bioforsk.no

Biruta Bankina

Institute of Soil and Plant Science,
Latvia University of Agriculture,
Liela Street 2, Jelgava, Latvia, LV 3001
Phone: +371 6302 1985
e-mail: Biruta.Bankina@llu.lv

Sigitas Lazauskas

Institute of Agriculture,
Lithuanian Research Centre for Agriculture and Forestry,
Plant Nutrition and Agroecology Department,
Instituto al.1, Akademija, LT-58344 Kėdainiai distr., Lithuania
Phone: +370 6988 0905, Fax: +370 3473 7096
e-mail: sigislaz@lzi.lt

Mati Koppel

Jogeva Plant Breeding Institute,
J.Aamisepa 1, Jõgeva alevik 48, 309 Estonia
Phone: +372 7766 903, Fax: +372 7766 902
e-mail: mati.koppel@jpbi.ee

Working groups:

• Organic farming systems

Chair: **Anne-Kristin Løes**

Bioforsk Organic Food and Farming,
Gunnars veg 6, NO-6630 Tingvoll, Norway
Phone: +47 404 79 962, Mobile: +47 404 79 962
e-mail: anne-kristin.loes@bioforsk.no

- **Herbage Seed Production**

Chair: Lars Havstad

The Norwegian Institute of Agricultural and Environmental research,
Arable Crop Division Bioforsk, Landvik,
Reddalsvn. 215, NO-4886 Grimstad, Norway
Phone: +47 906 76 435
e-mail: *lars.havstad@bioforsk.no*

- **Agricultural applications of NIRS and NIT**

Chair: René Gislum

Department of Genetics and Biotechnology,
Research Centre Flakkebjerg, DK4200 Slagelse, Denmark
Phone: +45 8999 3676
e-mail: *rene.gislum@agrsci.dk*

- **Fusarium and Mycotoxins in Cereals**

Chair: Ingerd Skow Hofgaard

Bioforsk, Norwegian Institute for Agricultural and Environmental
Research, Plant Health and Plant Protection Division,
Høgskoleveien 7, NO-1432 Ås, Norway.
Phone: +47 920 57 684
e-mail: *ingerd.hofgaard@bioforsk.no*

- **Perennial weeds**

Chair: Jukka Salonen

MTT Field Crop Protection and Agroecology,
FI-31600 Jokioinen, Finland
Phone: +358 40 078 4464
e-mail: *jukka.salonen@mtt.fi*

- **Plant protection in sustainable berry production**

Chair: Nina Trandem

Bioforsk Plant Health and Plant Protection Division,
Høgskoleveien 7, NO-1432 Ås, Norway
Phone: +47 926 09 308
e-mail: *nina.trandem@bioforsk.no*

- **Nematology working group**

Chair: Christer Magnusson

Bioforsk Plantehelse,
Høgskoleveien 7, NO-1432 Ås, Norway
Phone: +47 952 05 304
e-mail: *christer.magnusson@bioforsk.no*

- **IPM –North working group**

Chair: Kari Tiilikkala

Plant Production, MTT Agrifood Research,

FI-31600 Jokioinen, Finland

Phone: +358 40 098 6172

e-mail: *kari.tiilikkala@mtt.fi*

- **Local food production**

Chair: Lise C. Deleuran

Faculty of Science and Technology,

Aarhus University, Denmark

Phone: +45 8715 8278

e-mail: *Lise.Deleuran@agrsci.dk*

Animals

Vision: To Increase knowledge needed for development of Nordic domestic animal production through joint efforts.

Mission: To develop biological and economical animal production systems in balance with the environment and that fulfil public expectations.

Actors: Producers and users of this knowledge, as passive or active receivers or contributors are found at all points along the food chain. This food chain runs from producers via processing industry and dealers to consumers in cooperation with international networks.

Among the important arguments for strengthening domestic animal production in the Nordic countries are securing the supply of safe and high quality food, minimizing imported nutrients, and maintaining a sustainable rural economy. Additionally, companion animals, equines and fur animals are included as these represent important fields of animal production.

Fields of interest

Livestock systems

Environmental issues

Breeding, genetics and biotechnology

Animal nutrition and feeding

Feed evaluation and quality

Animal health and welfare

Equine science

Fur animal and companion animal science

The focus of our seminars is to gain and share knowledge, experiences and best practises in these issues. Seminars provide an excellent opportunity to build up new networks and enhance collaboration between researchers, rural extension and education specialists, and other interested stakeholders.

Chair: Hanne Helene Hansen (until 2013 10 31)

University of Copenhagen, Faculty of Life Sciences,
Department of Large Animal Sciences
Grønnegårdsvej 2, DK-1870 Fredriksberg C, Denmark
Phone: +45 3533 3083, Fax: +45 3533 3055.
e-mail: han@life.ku.dk

Egil Prestløkken (*from 2013 11 01*)

Department of Animal and Aquacultural Sciences,
Norwegian University of Life Sciences
P.O. Box 5003, NO-1432 Ås, Norway.
Phone: +47 6496 5205
e-mail: egil.prestlokken@umb.no

Vice Chair: Egil Prestløkken (until 2013 10 31)

(Address: se above)

Tor Mikael Lassen (*from 2013 11 01*)

Kopenhagen Fur, Agro Food Park 15, DK-8200 Århus N, Denmark
Phone +45 7213 2811
e-mail: TML@Kopenhagenfur.com

(Hanne Hansen has left the Animal Section and there is at present no other representative from Denmark than Tor Mikael Lassen which is formally not selected by the Danish national board)

Secretary: Ragnar Leming

Estonian University of Life Sciences,
Institute of Veterinary Medicine and Animal Sciences,
Department of Animal Nutrition,
Kreutzwaldi 62, Tartu, Estonia
Phone: +372 731 3444
e-mail: ragnar.leming@emu.ee

Members of section Board

Katri Karkinen

University of Eastern Finland,
Department of Sociology and Social Policy,
P.O. Box 111, FI-80101 Joensuu, Finland.
Phone +358 40 065 4068
e-mail: katri.karkinen@uef.fi and katri.karkinen@lammaoja.net

Liga Paura

Latvia University of Agriculture, Department of Control Systems,
Liela str.2, Jelgava, Latvia, LV-3001.
Phone: +371 6300 5707
e-mail: liga.paura@llu.lv

Elisabet Nadeau

Department of Animal Environment and Health,
Swedish University of Agricultural Sciences (SLU)
P.O. Box 234, SE-532 23 Skara, Sweden.
Phone: +46 511 671 42. Fax: +46 511 672 04.
e-mail: *elisabet.nadeau@slu.se*

Jóhannes Sveinbjörnsson

Agricultural University of Iceland,
Hvanneyri, IS-311 Borgarnes, Iceland.
Phone: +354 433 5000. Fax: +354 433 5001.
e-mail: *jois@lbhi.is*

Fur Animal delegate:

Tor Mikael Lassen

Kopenhagen Fur, Agro Food Park, 15, DK-8200 Århus N, Denmark
Phone +45 7213 2811
e-mail: *TML@Kopenhagenfur.com*

Working groups:

• **Fur Animals:**

Chair: **Tor Mikael Lassen**

Kopenhagen Fur, Agro Food Park, 15, DK-8200 Århus N, Denmark
Phone +45 7213 2811
e-mail: *TML@Kopenhagenfur.com*

• **Maize Silage:**

Chair: **Elisabet Nadeau**

Department of Animal Environment and Health,
Swedish University of Agricultural Sciences (SLU)
P.O. Box 234, SE-532 23 Skara, Sweden.
Phone +46 511 671 42. Fax: +46 511 672 04.
e-mail: *elisabet.nadeau@slu.se*

Environment

Responsibility area: The section Environment promotes development of sustainable cultivation systems, based on efficient use of plant nutrients and proper soil and water management. The section works on reducing the consumption of limited natural resources and to counteract environmental problems. The section focuses on the environmental aspects of nutrients and water in the soil-plant-atmosphere system, the effect of fertilization methods and animal manure application, tillage methods, drainage and irrigation on the leaching of nutrients and other contaminants as well as gaseous emissions. The section also works with measures taken outside the field to minimize the losses of nutrients and contaminants to surface waters, groundwater or to the atmosphere. Maintaining the biodiversity of cultivated landscape and promoting advanced landscape planning and architecture are also in focus of the section.

Chair: Kristiina Regina

MTT Agrifood Research Finland, Plant Production Research,
Planta, FI-31600 Jokioinen, Finland
Mobile: +358 29 531 7665
e-mail: kristiina.regina@mtt.fi

Vice chair: Kirsten Schelde

Aarhus University, Faculty of Science and Technology,
Department of Agroecology, P.O. Box 50, DK-8830 Tjele, Denmark
Phone: +45 8715 7712
e-mail: kirsten.schelde@agrsci.dk

Secretary: Helena Aronsson

Swedish University of Agricultural Sciences,
Department of Soil and Environment,
P.O. Box 7014, SE-750 07 Uppsala, Sweden
Phone: +46 18 67 24 66
e-mail: helena.aronsson@slu.se

Members of section Board

Samson Bjarnar Harðarson

Landbúnaðarháskóli Íslands, 311 Hvanneyri, Iceland
Phone: +354 433 5000
e-mail: samson@lbhi.is

Marianne Bechmann

Bioforsk, Soil and Environment,
Frederik A. Dahls vei 20, NO-1432 Ås, Norway
Phone: +47 9249 8945
e-mail: marianne.bechmann@bioforsk.no

Viesturs Jansons

Latvia University of Agriculture, Faculty of Rural engineering,
Department of Environmental Engineering and Water Management,
Akademijas iela 19, Jelgava, Latvia
Phone: +371 6302 9851
e-mail: *viesturs.jansons@llu.lv*

Algirdas Radzevičius

Department of Hydraulic Engineering of
Aleksandras Stulginskis University,
Studentu g. 11, Akademija Kaunas distr, 53361 Lithuania
Phone: +370 7 752 393, Mobile: +370 687 36574
e-mail: *algirdas.radzevicius@asu.lt*

Toomas Tamm

Estonian University of Life Sciences,
Department of Water Management.
Kreutzwald Str 5, Tartu, Estonia EE-51014
Phone: +372 731 3130, Mobile: +372 553 7901
e-mail : *toomas.tamm@emu.ee*

Working groups:**• Biochar****Chair: Priit Tammeorg**

Department of Agricultural Sciences,
P.O. Box 27, FI-00014 University of Helsinki, Finland
Phone: +358 9 191 58368
e-mail: *priit.tammeorg@helsinki.fi*

• Drainage**Chair: Johannes Deelstra**

Bioforsk Jord og miljø,
Frederik A. Dahls vei 20, NO-1432 Ås, Norway
Phone: +47 926 99 501
e-mail: *johannes.deelstra@bioforsk.no*

• Long time stream monitoring – modeling effects of climate change and measures**Chair: Marianne Bechmann**

Bioforsk, Soil and Environment,
Frederik A. Dahls vei 20, NO-1432 Ås, Norway
Phone: +47 924 98 945, Mobile: +47 924 98 945,
e-mail: *marianne.bechmann@bioforsk.no*

Economics

Responsibility area: The main objectives are to enhance the scientific knowledge, research cooperation, exchange of ideas and experiences among agricultural economists in the Nordic and Baltic countries in the field's micro- and macroeconomics, food economics, resource and environmental economics and rural economic development. Recent activities of the section board has therefore primarily been focused on efforts to establish working groups to prepare future seminars in the period 2013-2015, to develop and strengthen our cooperation with other sections of NJF, and to develop and strengthen our cooperation with the scientific journal Food Economics in order to disseminate high-standard scientific articles in the fields of food, agricultural and environmental economics. The strategic focus areas will be the identification and solution of unique economic problems related to agriculture and the food industry in all the Nordic and Baltic countries, interdisciplinary cooperation with biological and social research teams and institutions, and cooperation with economists and economic research institutions in European and other countries.

Chair: Sjur Spildo Prestegaard,

Norwegian Agricultural Economics Research Institute (NILF)
Postboks 8024 Dep., NO-0030 Oslo, Norway
Phone: +47 22367268
e-mail: sjur.prestegard@nilf.no

Vice chair: Jarkko Niemi

MTT Agrifood Research Finland, Economic Research,
Economics and Social Sciences
Kampusranta 9, FI-60320 Seinäjoki, Finland
Phone: +358 29 531 7550, Fax +358 6 414 1504
e-mail: jarkko.niemi@mtt.fi

Members of section Board

Karin Hakelius

Swedish University of Agricultural Sciences,
Dep. of Economics
P.O. Box 7013, SE-750 07 Uppsala, Sweden
Phone: +46 18 67 17 45
e-mail: karin.hakelius@slu.se

Guðmundur Jóhannesson

The Icelandic Agricultural Advisory Centre,
Austurvegi 1, IS-800 Selfoss, Iceland
Phone: +354 516 5000,
e-mail: mundi@bssl.is

Stine Hjarnø Jørgensen

Knowledge Centre for Agriculture
Agro Food Park 15, Skejby, DK-8200 Aarhus N, Denmark
Phone: +45 8740 5176, Mobile: +45 2936 7069
e-mail: *shj@vfl.dk*

Rando Värnik

Estonian University of Life Sciences, Kreutzwaldi 1,
51014 Tartu, Estonia
Phone: +372 731 3014, Mobile: +372 52 74 808
e-mail: *rando.varnik@emu.ee*

Baiba Rivza

Latvia University of Agriculture, Faculty of Economics
Svetes iela 18 LV-3000 Jelgava, Latvia
Phone: +371 302 3739, Fax: +371 302 6980
E-mail: *rivza@cs.ltu.lv*

Linas Stabingis

Lithuanian University of Agriculture,
Faculty of Economics and Management
Universiteto 10, Akademija LT-53361 Kauno r., Lithuania
Phone: +370 377 52257
e-mail: *linas.stabingis@lzuu.lt*

Technology

Responsibility area: The area of activity shall ensure a sustainable material cycle in agriculture, from field to fork and back to field, which includes high quality food as well as non-food products like fiber, energy, landscape values for recreation, sports and tourism. This production shall be sustainably maintained in perspective considering food safety and quality, animal welfare, working conditions, environmental impact, biodiversity, economy, society and development of living rural areas. The section works from a Nordic perspective in an international world including interaction between agricultural research and farmer - industry - consumer.

Chair: Ole Green (until 2013 04 30)

Kongskilde Industries A/S
Niels Pedersens Allé 2, DK-8830 Tjele, Denmark
Phone: +45 3368 3500
e-mail: olg@kongskilde.com

Snorri Sigurdsson (*from 2013 05 01*)

Danish Agricultural Knowledge Center,
Department of Dairy and Cattle Farming
Agro Food Park 15, DK-8000 Aarhus, Denmark
Phone: +45 4059 9702
e-mail: sns@vfl.dk

Vice chair: Gints Bierzietis

Latvia University of Agriculture, Faculty of Engineering
Cokstes bulv. 5, LV-3001, Latvia
Phone: +371 2917 6304
e-mail: Gints.Birzietis@llu.lv

Secretary: Snorri Sigurdsson

Danish Agricultural Knowledge Center,
Department of Dairy and Cattle Farming.
Agro Food Park 15, DK-8000 Aarhus, Denmark
Phone: +45 4059 9702
e-mail: sns@vfl.dk

Members of section Board

Anders Larsolle

Swedish University of Agricultural Sciences,
Department of Energy and Technology
P.O. Box 7032, SE-750 07 Uppsala, Sweden
Phone +46 18 673 446
e-mail: Anders.Larsolle@slu.se

Juha Suutarinen

MTT Agrifood Research Finland
Latokartanonkaari 9, FI-00790 Helsinki, Finland.
Phone: +35 8 29 531 7786.
e-mail: *Juha.Suutarinen@mtt.fi*

Kestutis Navickas

Aleksandras Stulginskis University,
Institute of Energy and Biotechnology Engineering
Studentu 15, Akademija, Kaunas, LT-53362, Lithuania
Phone: +370 6878 6826
e-mail: *Kestutis.Navickas@asu.lt*

Oliver Sada

Institute of Technology, Estonian University of Life Sciences
Kreutzwaldi 56, EE-51014 Tartu, Estonia
Phone: +372 731 3301
e-mail: *Oliver.Sada@emu.ee*

Nils Bjugstad

Norwegian University of Life Sciences,
Dept. of Mathematical Sciences and Technology
P.O. Box 5003, NO-1432 Ås, Norway
Phone: +47 9074 0307
e-mail: *nils.bjugstad@nmbu.no*

Working groups:**• Horse husbandry**

Chair: Snorri Sigurdsson
e-mail: *sns@vfl.dk*

• Bioenergy

Chair: John Morken
e-mail: *john.morken@umb.no*

• Robotic milking

Chair: Snorri Sigurdsson
e-mail: *sns@vfl.dk*

• Farm buildings

Chair: Tapani Kivinen
e-mail: *tapani.kivinen@mtt.fi*

Reindeer husbandry

Responsibility area: To promote research on reindeer husbandry related issues in the Nordic countries. A central aim is to accomplish networking between scientists from different disciplines, countries and research organisations as well as between science and end-users (reindeer husbandry, management agencies and others) and thereby stimulate knowledge building and research cooperation. We also wish to integrate young researchers and students in reindeer husbandry related research. Our vision is to contribute to maintaining reindeer husbandry as a resilient social-ecological system.

Background: The establishment of the Reindeer Husbandry Section is a consequence of the closure of the previous contact forum, NOR (Nordic Council for Reindeer Husbandry Research; <http://site.uit.no/rangifer/>). As a well established member organisation, NJF has the prospect of continuing the previous role of NOR as a contact forum and for e.g. arranging research seminars and initiating joint research projects. An independent section for reindeer husbandry research at NJF is justified by the multidisciplinary field, which covers a range of diverse themes within natural as well as social science and humanities.

The section board should consist of:

- At least one representative each for reindeer husbandry research in Norway, Sweden and Finland. It is desirable to have representatives also from Iceland and Greenland. Board members may be appointing also from remaining member countries if there is interest to join.
- At least one representative from a reindeer herder organisation
- A representative from a relevant management agency
- If available, a contact person representing reindeer husbandry related research in Russia may be associated to the board

A provisional board has been appointed until representatives for the permanent board are selected by the respective national associations.

Birgitta Åhman, professor in reindeer husbandry, SLU, Uppsala, Sweden
(birgitta.ahman@slu.se)

Øystein Holand, professor, UMB, Ås, Norge (oystein.holand@umb.no)

Rolf Rødven/Øystein Ballari, Bioforsk, Tromsø, Norge
(rolf.rodven@bioforsk.no / oystein.ballari@bioforsk.no)

Päivi Soppela, University of Lapland, Rovaniemi, Finland
(paivi.soppela@ulapland.fi)

Member discount available for 2013

Stay up-to-date with the research through the trilogy of NJF endorsed journals

Acta Agriculturae Scandinavica, Section A – Animal Science



2011 Volume Number: 61
Frequency: 4 issues per year
Print ISSN: 0906-4702
2009 Impact Factor 0.393

Journal website: <http://www.tandf.co.uk/journals/saga>
Manuscript submissions: <http://mc.manuscriptcentral.com/saga>

Member Price: 508 NOK

Acta Agriculturae Scandinavica, Section B – Soil & Plant Science

2 more issues added to the frequency for 2011!



2011 Volume Number: 61
Frequency: 8 issues per year
Print ISSN: 0906-4710
2009 Impact Factor 0.460 – 5-year Impact Factor 0.624

Journal website: <http://www.tandf.co.uk/journals/sagb>
Manuscript submissions: <http://mc.manuscriptcentral.com/sagb>

Member Price: 676 NOK

Food Economics – Acta Agriculturae Scandinavica, Section C

Online submission to be launched during 2011!



2011 Volume Number: 8
Frequency: 4 issues per year
Print ISSN: 1650-7541

Journal website: <http://www.tandf.co.uk/journals/sagc>
Manuscript submission instructions to be found at the website.

Member Price: 508 NOK

All three journals will give NJF members a 50% discount to the publication fee if accepted for publication. Please note clearly in your cover letter that you are an NJF member when you submit.

Member subscription orders should be sent to NJF at njf@nif.nu, include invoicing details and you will receive payment details from Taylor & Francis.

Remember to also recommend the journals to your librarian to ensure online access to full text articles through your library. For further information about library orders, write to: subscriptions@tandf.co.uk.