

EAAP

European
Federation of
Animal Science



November 2011

Individual Member Flash-e-news

With this new issue of the Flash-e News of EAAP we are introducing two new sections. As you can see, we are still developing the structure and the amount of information we want to share with you. We just hope that this monthly newsletter will be useful and interesting for you. Soon, we think in the first months of the next year, we will prepare and send you a questionnaire to try to get your comments and advises to improve the EAAP newsletter.

The first new section is an updated list of the most relevant upcoming animal science meetings. For obvious reasons we cannot list all of them. We will plan to show the meetings that will take place in the following 12 months. For those who want to have a more

exhaustive list of meetings, we suggest you to look at our website, where they will be shown in the "extended version". We believe that planning the next meetings to attend is something very important for everyone working in science. Of course we welcome any information about meetings that you want to suggest to our readers.

The second important news of this issue of the Flash-e News is the presentation of relevant institutes within EAAP member countries. One of the main objectives of EAAP is to share information and to create networks. It is also an efficient way to know more about our colleagues around Europe.

We begin in this issue by introducing one of the most relevant animal science institute of the entire world, when we talk about the Wageningen UR (University and Research Centre) we cannot confine the relevance to Europe: Specifically we are interested in this Newsletter to introduce you the Animal Science group. Many scientists of the Wageningen UR have been part of EAAP management and scientific groups. And if EAAP represents now the European animal science community is also due to the commitment and activities of many representatives of the Wageningen research corpus. Not many years ago, while discussing with an important researcher from Wageningen, we had been told that for them the EAAP annual meeting is "their annual meeting", it is the most important animal science meeting for Wageningen animal scientists. And this is also reflected, not only by the work done in the Study Commissions and Working Groups, but also by the massive participation to the annual meeting. 'To explore the potential of nature to improve the quality of life' the mission of Wageningen UR (University & Research centre). A staff of 6,500 and 10,000 students from over 100 countries work

everywhere around the world in the domain of healthy food and living environment for governments and the business community-at-large.

Wageningen UR is in the centre of the Netherlands, few kilometres from Amsterdam, and is certainly the most important Animal Science University of the country.

The strength of Wageningen UR lies in its ability to join the forces of specialised research institutes, Wageningen University and Van Hall Larenstein University of Applied Sciences. It also lies in the combined efforts of the various fields of natural and social sciences. This union of expertise leads to scientific breakthroughs that can quickly be put into practice and be incorporated into education. This is the Wageningen Approach. Wageningen UR has branches all over The Netherlands and even in China and Brazil.



The 63rd annual EAAP meeting is coming soon!!! Bratislava, Slovakia

The dates are 27 August - 31st August 2012



The Animal Sciences Group of Wageningen UR

The Animal Sciences Group of Wageningen UR consist of 3 excellent research institutes that work closely together to develop and apply knowledge and expertise aimed at a profitable and sustainable animal production sector.

- Wageningen UR Livestock Research
- Central Veterinary Institute
- Wageningen University, department of Animal Sciences

They are internationally leading knowledge partners for research on animal production. Together with the government and the sector itself they create a basis for innovative developments at the interface between animals, people and society, that break new ground for the farming sector. For now, but most definitely also for future generations.

Our broad spectrum of expertise means that the Animal Sciences Group is the knowledge- and business partner for a wide range of clients, such as international pharmaceutical companies, firms in the dairy and meat processing industry, livestock product boards, national and international governments. We work together with them to come up with solutions to problems that require out-of-the-box thinking. To do this we contribute our wide-ranging expertise, professional process design and make use of our extensive network. Whether it's about new vaccines, developing quality management systems or product innovations in dairy, meat and eggs, the emphasis is on path-breaking research and on innovations which are sustainable.

The research institutes together cover domains such as Animal Welfare & Behaviour, Animal Health, Housing & the Environment, Product Quality & Food Safety, Systems Innovation, Breeding & Genomics and Animal Nutrition.



FACTORS FOR SUCCESS

To be able to provide our customers with appropriate services and to realise our ambition, the necessary ingredients must be available. Together, the institutes of the Animal Sciences Group of Wageningen UR have state-of-the-art laboratories, such as the national reference laboratory for the Dutch government, unique laboratory facilities for several animal species, a large, well-documented library, and research farms such as the Swine Innovation Centre and Dairy Campus. For more information visit de website of Wageningen UR or follow us via social media on our Twitter accounts (Wageningen UR & Livestock Research), Facebook , LinkedIn, or Youtube



**PLEASE LET US KNOW IF YOU
HAVE MEETINGS YOU WISH US
TO PUBLICIZE**

UP-COMING MEETINGS

IPC International Poultry Conference	6th International Poultry Conference	
	Alexandria, Egypt	26-29 March 2012
	www.wpsa.com	
BSAS British Society of Animal Science	Annual Conference	
	Nottingham, UK	24-25 April 2012
	www.bsas.org.uk/Meetings_&_Workshops/Annual_Conference	
IDF International Dairy Federation	International Symposium on Cheese Ripening and Technology	
	Madison WI, USA	20-24 May 2012
	www.idfcheeseus2012.com	



UP-COMING MEETINGS

ICAR International Committee on Animal Recording	Annual Conference	
	Cork, Ireland	28 May – 2 June 2012
	www.icar2012.ie	

IDF/ISO International Dairy Federation /International Organization for Standardization	Analytical Week	
	Tel Aviv, Israel	4 - 8 June 2012
	www.idf-iso-analytical-week.org	

ICQG2012 International Conference on Quantitative Genetics	4th International Conference on Quantitative Genetics	
	Edinburg, UK	17 - 22 June 2012
	www.icqg2012.org.uk	

IDF/INRA International Dairy Federation/ Institut National de la Recherche Agronomique	International Symposium on Spray Dried Dairy Products	
	St. Malo, France	19-22 June 2012
	https://colloque.inra.fr/sddp2012	

FAO-OIE Food and Agriculture Organization/ Office International des Epizooties	Global conference on foot and mouth disease control	
	Bangkok, Thailand	27-29 June 2012
	www.oie.int www.fao.org	

SASAS South African Society for Animal Science	45 th Congress	
	East London, South Africa	9-12th July 2012
	www.sasas.co.za/events	

ADSA/AMPA/ASAS/ CSAS/WSASAS American Dairy Science Association/ Asociación Mexicana de Producción Animal / American society of animal science /Canadian Society of Animal Science/ ASAS Western Section	Joint Annual Meeting	
	Phoenix AZ, USA	15-19 July 2012
	www.jtmtg.org/2012	

WPSA World poultry science association	XXIV World's Poultry Congress	
	Salvador, Brazil.	5 - 9 August 2012
	www.wpsa.com	



EAAP European Federation of Animal Science	63rd Annual Meeting	
	Bratislava, Slovak Republic.	27 – 31 August 2012
	www.eaap2012.org	

FAO-CIHEAM Food and Agriculture Organization/ Centre international de hautes études agronomiques méditerranéennes	“New approaches for grassland research in a context of climatic and socio-economic changes”	
	Samsun, Turkey	3-6 October 2012
	www.iamz.ciheam.org/samsun2012	

IDF International Dairy Federation	World Dairy Summit	
	Cape Town, South Africa	03-09 November 2012
	www.fil-idf.org	

OIE Office International des Epizooties	3rd Global conference on animal welfare	
	Kuala-Lumpur, Malaysia	6-8 November 2012
	www.oie.int	

AAAP Australasian Association for Animal Production	15th AAAP Animal Science Congress	
	Bangkok, Thailand	26 - 30 November 2012,
	http://aaap2012.ku.ac.th/	

IDF International Dairy Federation	World Dairy Summit	
	Yokohama, Japan	October 2013
	www.fil-idf.org	

WAAP World Association for Animal Production	11th World Conference on Animal Production	
	Beijing, China	28 July - 1 August 2013
	www.wcap2013.org	



NEWS

The birth of a global giant in animal feed The birth of a global giant in animal feed

Nutreco BV has just sold its subsidiary HENDRIX UTD to ForFarmers BV. The agreement signed between the two companies have given the possibility to ForFarmers to buy for the amount of € 92.5m the Dutch, Belgian and German Nutreco divisions and therefore becoming the first European producer of animal feed. This giant with 1500 employees produces more than 4.5mT/ year

of compound feed and 1.5mT/ year of raw materials of dry and wet by-products for a turnover of €5md.

NUTRECO retains ownership of Trouw Nutrition International (ruminant nutrition, monogastric and pet food) and of Skretting BV (one of the world leaders in the nutrition for aquaculture). ForFarmers represents a wider range of activities, with the animal feed production but also that of seeds, fertilizers and pesticides.

An online database for available vaccines for livestock

GALVmed and Inocul8, the office of technology transfer of the Institute Moredun have established an on-line database regarding all available vaccines around the world to protect livestock. This database is of free access on www.vetvac.org and is primarily intended for vaccine manufacturers, so that they can identify new opportunities of development and of new markets. Nearly 2000 vaccines for cattle, sheep, goats, pigs and poultry are already listed. Several entries

are possible for research (manufacturers, geographic areas, animal pathogens).

For those who are not familiar with GALVmed, this is an association, which aims to protect the health of livestock in developing countries. This association is financed by a specific Bill Gates foundation and has as partners companies from the animal health sector (Pfizer, Merial, Intervet). GALVmed has set a target in particular to eradicate animal diseases, therefore reducing poverty in developing countries (ND, avian flu, African swine fever and classic swine fever, ...)

The birth of a global giant in animal feed The birth of a global giant in animal feed

The centre, located at Richland (Michigan, USA) near the main centre of R&D of Pfizer at Kalamazoo, this centre is part of an investment and renovation program of the Kalamazoo centre for \$75m decided in 2009. This equine research centre has received an investment of \$7m.

The Pfizer Equine Research Centre will work mostly on new vaccines and drugs against emerging equine diseases.

The birth of a global giant in animal feed The birth of a global giant in animal feed

This happens in Ploufragan (Brittany, France) on the side of Zoopole. This new site which received an investment of €2 million was inaugurated recently on last October 27. Forty people will be based there. This laboratory will be the hub of genomic selection group.

After various takeovers and mergers in recent years, the group Hendrix based in Boxmeer, Holland is now a world leader in animal genetics. Between 2005 (creation date of the group) and 2011, the turnover of the group increased from € 15m to 300m (forecast 2011). More than 1500 people work for the group in over 22 countries.

Hendrix is present in many areas of the genetic selection

In aquaculture

In 2010 Hendrix bought Landcatch & Landcatch Natural Selection from the Polish group Lithgow, Acquisition completed in June 2011. Landcatch, based in Scotland is specialized in the selection of Atlantic salmon.



In Pig breeding

Hendrix became in 2007 the owner of HYPO, bought from the Dutch NUTRECO group. HYPOR since then has bought several other breeders: Designed Genetics (2010), France Hybrid (2008) and Shade Oak Swine (2009)

In poultry selection

- 1) In turkey: HYBRID is the subsidiary of Hendrix specializing in turkey.
- 2) In broiler and laying hen: HENDRIX is the owner of the Animal Selection (ISA) that works on the genetic selection of laying hens. Its R&D centres are located in France, in the Netherlands and in Canada. Relay centres (known as operational) providing breeding of high parenting lines are in Brazil and Indonesia. Hendrix and Cobb-Vantress Inc. (selection of broiler, USA) are partners since 2008 in a joint venture. A research program in genomics with the support of USDA is in act (2008-2012) with the participation of several American, European universities and INRA (Toulouse).

Novus International Inc. opened a fifth research centre

After Beijing (China), Ho Chi Min city (Viet Nam), Montgomery and St Charles (USA), Novus has established a new research centre in the city of Reus (Catalonia) in Spain

This centre will work on the development of assets (antioxidants, pigments, essential oils) for animal nutrition and for human consumption mainly from natural compounds, development of processing methods, and technical and scientific support for the clients. Dozen researchers will be

permanently assigned to the centre of REUS joining a global network of R&D of more than 150 scientists.

This former subsidiary of Monsanto bought in 199 by Japanese conglomerates Mitsui & Co Ltd and Nippon Soda corp. Ltd is today present on the five continents. Since 1991, the company has deposited more than 200 patents. It develops and commercializes a very wide range of products for feeding livestock (including aquaculture) like additives (preservatives, anti-caking, probiotics, prebiotics, essential amino acids such as methionine, formerly the heart of the business), organic acids and derivatives of essential oils but also since 2010 an oral vaccine against coccidiosis for poultry.

Genomic application to improve swine health and welfare

During the "Livestock Gentec Conference" held last 19-20 October in Edmonton, Alberta in Canada and organized by the University of Alberta, the public institute Genome Alberta announced the launch of a research program called "Application of Genomics to improve swine health and welfare", with funding of \$12.4m, involving the universities of Alberta, Saskatchewan and the breeders association (public and private) PigGen.

This program aims to reduce the impact of two of the most widespread diseases in pigs: the disease related porcine circovirus and porcine reproductive and respiratory syndrome (PPRS). The goal is to reduce the impact of such disease

by elucidating the genetic mechanisms underlying the resistance of some animals from these diseases. This work, based on the pig genome sequence, will help the development of new strategies to control pig diseases.

This research program is financed by several public agencies including Genome Alberta, which aims to develop a biotech industry in the province of Alberta). PigGen is an association that regroups the pig breeders, non profit associations and private breeders that are the most important in this sector like Fast Genetics, Genesis, Hypor Canada (group Hendrix), PIC Canada (group Genus PLC), Topigs Canada. Some of these companies are already involved in the research consortium PRRS-CAP (Porcine Reproductive and Respiratory Syndrome - Coordinated Associated Project) that also includes a research project for future genomic selection resistant to the disease. Newsham Choice Genetics (group Grimaud) is part of this consortium.



Sterilization of transgenic salmon

The company AquaBounty has just received a subvention from the FDA to improve the process of sterilization of its transgenic salmon. The objective is to avoid the contamination of the wild populations by genes of genetically modified salmon. The GM salmon according to the project AquaBounty should be sterile females from 98% to 99% (triploid). However a report by the FDA highlights the risk of having more than 5% of fertile fish.

For many environmental organizations, this system still poses too great a risk of contamination for the wild populations. Last

June in USA, the Agriculture Act (agriculture appropriation bill), passed by the House of Representatives included an amendment prohibiting the FDA to fund any research on the AquaBounty GM salmon. However this law is still blocked in the Senate. The company therefore is still waiting for the authorization from the FDA to put their genetically modified AquaAdvantage (AAS) salmon on the market. However in preparation of a possible go-ahead from the FDA to market the AAS the first batches of fry alevins AAS were shipped last June to Panama (site chosen for the breeding of fish) for fattening.

Volunteer consumers will test these early productions. The production of eggs and fry is expected on the Prince Edward Island (Canada), although Canadian residents recently expressed their opposition to the installation of this hatchery, compromising the image of the island.

Food impact on the stress of piglets during weaning

Researchers from the Institute of Animal Science (University of Wageningen, the Netherlands) in a program co-funded by three companies -NutraCo BV, Lucta SA and Verbakel BV have worked on the role of food flavourings on the stress of piglets during weaning. They showed that anethole, an anise flavoured food, used in the diet of sows during gestation and lactation of piglets, can by its presence in the diets of pigs or in the air that they breathe reduce stress (reduction of salivary cortisol, play behaviour) and help the adaptation of animals towards their new feed.

Lucta SA is a Spanish company specialized in the production of flavourings and food additives in animal nutrition and human food. Lucta owns several production sites (USA, Brazil, Mexico, Colombia, China, and Spain) and is present as one of the world leader in the provision of assets for animal nutrition. The company has already carried out several research partnerships (IRTA, University of Utah, etc.) and its researchers have contributed to many publications (Lucta's Virtual library). The company has filed several patents.

EAAP would like to thank Jacques LE ROUZIC (Délégation au Partenariat avec les Entreprises) - INRA for sharing the above information with us.

Please send to us (eaap@eaap.org) all news that you desire to share with the EAAP animal science community! We need your help for disseminating and to create a network.

