



### Main Topics

- From WAAP members
- News from Science
- News from Industry
- Job Offers
- Publications
- Meetings and Conferences

## EDITORIAL

I would like, first of all, to thank all WAAP members for electing me at the Presidency of this association for the next five years. I would also like to sincerely thank the former President Jim Sartin for his presidency since 2014 especially for his action in order to provide to members a global view of animal science and animal production. I also want to congratulate him for the organization of the 12th World Conference on Animal Production in Vancouver, which illustrated the different challenges animal scientists are facing with for the next decade.

In recent years, the livestock sector has been subjected to strong criticisms notably regarding (1) greenhouse gas (GHG), nitrate and ammonia emissions and their impact on climate change, water and air quality, (2) apparent low efficiency in converting plant into animal products, (3) public health concerns linked to the high levels of consumption of animal products, (4) animal welfare in livestock farming and non-natural rearing methods with regard to consumers and citizens' expectations for the livestock sector. Moreover, marginal but voluble groups from cities, such as vegans, push for societal changes in our relations with domestic animals.

However, the livestock sector contributes substantially to the global economy and to the vitality of rural and suburban territories. The sector plays a major role in food and nutrition security (1) by providing protein-rich food with high nutritional and organoleptic quality, as part of a balanced diet, (2) by valorising landscape and resources that cannot be otherwise used and (3) by supporting rural employment and cultural heritage, including culinary arts. Meeting the demand in animal products would necessitate doubling the global production by 2050. The challenge is to transform our livestock systems into sustainable ones respecting the environment and meeting the demands from the consumers and citizens, while respecting the income and well-being of producers.

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**Editorial (continues)**

To achieve these challenges while preserving the planet, livestock production systems must profoundly change and become key components of the sustainability of the global food chain. The game changer will be to move from a livestock sector based on a “productivist” approach to one based on a “sustainable resource use” approach. This shift would give agro-ecosystems a very positive role in limiting their environmental impacts while boosting the provision of ecosystem and social services, and respecting animal welfare.

Livestock has a high potential to contribute to a sustainable food chain and circular bio-economy, by recycling biomasses unfit for human consumption, using smart fertilization (use of animal manure as fertiliser and by-products), and thus participating to the sustainability of territories through the supply of diverse agro-ecological, social and economic services including healthy protein-rich food responding to what citizen communities are waiting for.

Animal scientists have to play a critical role in these changes and I believe that exchanges among them at a global level is, more than ever, an absolute necessity for inventing together our common future. WAAP can play a role in this direction by strengthening the interrelationships between its members.

As decided during our last general assembly in Vancouver, the 13th WCAP congress will be held in 2023 in Lyon (France) but, starting by 2020, annual sessions organized by WAAP will be held during the annual meeting of our members in order to increase our activity and visibility between our quinquennial conferences.

My wishes are that all WAAP members participate to this movement.

Philippe Chemineau  
WAAP President  
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<http://www.waap.it/>

**From WAAP Members****From American Dairy Science Association (ADSA)**[ADSA special e-membership](#)

ADSA offers a special e-membership. This is available on a "next 365 days" basis to anyone who lives outside of the USA or Canada and is priced at 1/2 of professional dues (USD55). It provides electronic access to the Journal of Dairy Science and to the ADSA's recorded symposia library (all of the 2017 symposia recordings have been added). E-members also qualify for the member rate for S-PAC (USD75): 61 conferences have now contributed 633 sets of proceedings to this searchable database. Both Journal Dairy Science and S-PAC are also of interest to vets. [Link to S-PAC](#).

**From the South African Society for Animal Science (SASAS)**[The South African Society for Animal Science \(SASAS\) – 56 years old!](#)

The South African Society for Animal Science celebrated 56th years of existence and 50th congress during the past congress that was held in Port Elizabeth, in September 2017. The original society was founded on April 28, 1961, then known as the Society for Animal Production with 120 founder members attending the occasion at Pretoria. The original idea for a Society for Animal Science was coined by Danie Joubert and George Hunter who were postgraduates at Cambridge University in the 1950's, working under the world famous livestock physiologist Sir John Hammond. Wim Verbeek was on a similar mission in the USA at Cornell University doing post-graduate work in livestock nutrition under J.K. Loosli. On his way back to South Africa via London he visited his South African colleagues at Cambridge and there, in a little tea room, the

three of them conceived the idea of a South African society for livestock scientists. The three young scientists were then members of, respectively, the British Society for Animal Production and the American Society for Animal Science and they were particularly impressed with the roles of these societies and their corresponding scientific journals in the research, teaching and extension fields. Our motto *Experientia docet*, which literally means 'experience teaches' was probably also born out of their convictions in this regard."

The Society has different branches with the aim of taking science to the producers and farmers. Since the foundation of the Society, the different SASAS branches linked to the provinces in South Africa has hosted annual congresses with themes relevant to the current issues in animal production. Interesting that the first theme in 1961 was "Efficiency in Production", that remains an important topic even in modern livestock production. Other themes over the years included: "Golden Innovations for Sustainable Animal Agriculture" for the 50th Congress theme "New Challenges for the Animal Sciences", etc.

At the 50th congress tribute was paid to the stalwarts of the early years of the Society that included names such as Dr Francis Gilchrist that was the first, and so far the only female honorary president (1987 and 1988) of the Society and Professor L.R. Ndlovu the first and so far the only black honorary president (2008-2010) of SASAS. The current president of SASAS, Professor Esté van Marle-Köster, is the first female president of SASAS.

SASAS recognises excellence among its members and students. A number of awards are made annually to deserving members in various categories. Undergraduate and postgraduate students of excellence are rewarded either by the main SASAS body or by branches or by industry partners. Awards are important in fostering cohesion and pride in being part of the animal science world.

In South Africa professional animal scientists must register with the South African Council for Natural Scientific Professions (SACNASP) in terms of the Natural Scientific Professions (NSP) Act (Act No 27

of 2003). This is important for the recognition of the profession and ensures quality through a system of Continuous Professional Development (CPD) where credits are earned by attending refresher courses, international conferences and research contributions. SASAS is the Voluntary Association (VA) recognized by SACNASP as representative of the animal science profession and through its council and committees acts as the mouth-piece for animal scientists.

Visit our [website!](#)

### **From Nigerian Society for Animal Production (NSAP)**



#### 44th Annual Conference of the Nigerian Society for Animal Production

The 44th Annual Conference of the Nigerian Society for Animal Production (NSAP) will be held on 17th to 21st March, 2019 at the University of Abuja, Nigeria.

Prof. B. Y. Abubakar: Chairman Local Organising Committee

Prof A. A. Adeniji: Secretary Local Organising committee

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## **From European Federation Animal Science (EAAP)**

### 69th EAAP Annual Meeting videos Plenary Session

Every year EAAP organizes, during its annual meeting, a Plenary Session on current relevant topics. At the 69th annual meeting held in Dubrovnik (Croatia) few weeks ago the Plenary Session was titled “2030: what type of animal science and livestock industry will be necessary?” with four scientists offering significant lectures: Daniel Weary, from University of British Columbia (Canada), Massimiliano Pasqui from the National Research Centre (Italy), Rudolf Preisinger from the EW Group (Germany) and Badi Besbes (from FAO). We are very pleased to inform that all presentations can now be watched in the [EAAP YouTube Channel](#). Moreover, you can also watch the lecture offered by Imke De Boer from Wageningen University (the Netherlands) in occasion of the prestigious Leroy Award that on 2018 was given to Dr De Boer. The welcome and award ceremonies from the Dubrovnik annual meeting are also available in the EAAP YouTube Channel together with other interesting videos that EAAP makes available to all interested about animal science

### Decisions taken during the General Assemblies held in Vancouver

Philippe Chemineau from France was elected President of the World Association of Animal Production for the period 2018-2023. Philippe Chemineau, French scientist, has been previously President of EAAP, funding member of the Animal journal and member of the INRA Board. The Council members for next five years are Debra K. Aaron (USA) representing North America, Matthias Gauly (Italy/Germany) representing Europe, Norman Casey (South Africa) representing South America and Africa and Naomi Kashiwazaki (Japan) representing Asia and Oceania. The World Conference held in Vancouver last July had almost 300 participants. The next World Conference will

be held on 2023 in Lyon (France). It will be the 13th WCAP Venue. It was also decided to organize WAAP session in cooperation, and after invitation, with local members. Those sessions will offer global aspects about animal science even in regional conferences. The Australian member already showed interest to organize sessions jointly with WAAP in the next years. The [WAAP website](#) and the Newsletter will be linked with Social Media.

## **News from Science**

### **Aromatic and microbiological signature of natural grasslands**



Multiple studies carried out at INRA Auvergne Rhône-Alpes have demonstrated that there is such a thing as a “grazing effect” on the sensory properties and quality of milk, cheese, butter and meat. Due to progress in microbiological analysis tools, research now explores the impact of grassland plant diversity on the animal’s microbiota. As it turns out, the link to its area of origin is important for cheese as well! Read more on [INRA website](#).

## News from Industry

### Elanco: A new story about our sector



This week, Elanco Animal Health partnered with EU40 to host an event at the heart of Europe – the European parliament – to debate how we combat misinformation about the livestock sector. Elanco's senior director of market access EMEA and APAC, George Tice reports from the event. Read more [here](#).

## Job Offers

### FRAME

#### Summer Studentship Programme 2019

FRAME is an independent charity dedicated to promoting the 3Rs and the development of new techniques that will replace the need for laboratory animals in medical and scientific research, education, and testing. The FRAME Summer Studentship Programme has been developed to support undergraduates in undertaking summer research projects in an area relating to the development of alternative methods.

#### Studentship Details:

Two studentship awards will be available for Summer 2019.

Duration: 6 – 10 weeks

Stipend: £150 per week

Consumables & research costs: Up to £750 maximum.

Deadline: 30 November 2018

For more information please visit the [website](#).

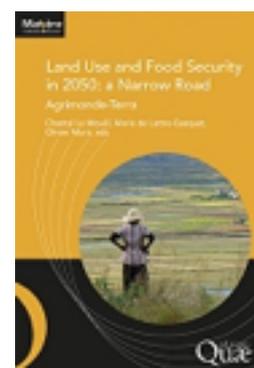
## International PhD Position in Animal Science (Hong Kong – New York)

We are looking for an enthusiastic PhD student with animal science / biology / veterinary medicine background for a research project focusing on metabolic health and molecular mechanisms of metabolic regulation in dairy cattle. This 4-years program will be based at the College of Veterinary Medicine and Life Sciences, City University of Hong Kong and can result in a joint PhD degree with the College of Veterinary Medicine, Cornell University, New York. A strong interest in biochemistry, cell physiology and bioinformatics is fundamental. Applications are welcome now; starting date will be in 2019. If you are interested please contact: Dr. Ákos Kenéz, [akos.kenez@cityu.edu.hk](mailto:akos.kenez@cityu.edu.hk)

## Publications

### I. Quae

[Land Use and Food Security in 2050: a Narrow Road. Agrimonde-Terra](#) (available for free)



2. New technical articles have been recently published on Engormix:

I. **“A Goal Programming Approach to Ration Formulation Problem for Indian Dairy Cows”** (<https://en.engormix.com/feed-machinery/articles/goal-programming-approach-ration-t42762.htm>);

II. **“Use of cereal crops for food and fuel – characterization of a novel bioethanol coproduct for use in meat poultry diets”** (<https://en.engormix.com/poultry-industry/articles/use-cereal-crops-food-t41662.htm>);

III. **“Housing and Confinement for the Backyard Flock”**( <https://en.engormix.com/poultry-industry/articles/housing-confinement-backyard-flock-t42296.htm>)

IV. **“Reaction of Banana Cultivars to The Meloidogyne Javanica X Fusarium Oxysporum F. Sp. Cubense Complex”** (<https://en.engormix.com/mycotoxins/articles/reaction-banana-cultivars-meloidogyne-t42632.htm>);

## Meetings and Conferences

November 27th -29th, 2018, in Alexandria, Egypt

1st International Conference on Animal Genetic Resources Conservation in Africa and Asia

The 1st International Conference on Animal Genetic Resources Conservation in Africa and Asia will be held in November 27th-28th 2018 at the University of Alexandria, Egypt. The conference main theme will be: "Towards a rational

conservation strategy for animal genetic resources for food and agriculture in Africa and Asia". More information will be available soon.

June 27th -29th, 2019, in Bern, Switzerland

17th International Conference on Production Diseases in Farm Animals

The ICPD conference is a traditional scientific conference dedicated to current topics related to farm animal diseases that are related to the respective food production systems. The ICPD 2019 will be held at the University of Bern, Switzerland. For more information check the [conference website](#) or contact us at [icpd2019@vetsuisse.unibe](mailto:icpd2019@vetsuisse.unibe).

August 26th – 30th, 2019 in Ghent, Belgium

70th EAAP Annual Meeting (EAAP 2019)

The Belgian organizing team is delighted to invite you to the 70th Annual Meeting of EAAP. The meeting will take place from 26th–30th August 2019 in the historic yet contemporary city of Ghent. The meeting will be organized by ILVO under the patronage of the Department of Agriculture and Fisheries from the Flemish Government. For more information, please visit [EAAP 2019 website](#).

September 3rd– 6th, 2019 in Leipzig, Germany

International Symposium on Ruminant Physiology

The Symposium about Ruminant Physiology will be held in Germany in 2019 at the *Kongresshalle am Zoo* of Leipzig. The Symposium is the major international conference on ruminant physiology. For more information, please visit the [symposium website](#).



6th EAAP International Symposium on Energy and  
Protein Metabolism and Nutrition (ISEP 2019)

September 9th – 12th, 2019 in Belo Horizonte, Brazil

The organizing committee and EAAP Commission on Animal Nutrition invite you to the 6th EAAP International Symposium on Energy and Protein Metabolism and Nutrition (ISEP 2019). For more information, please visit [ISEP 2019 website](#)

The **World Animal Science News** is the Official WAAP Newsletter. This interesting update about activities of the global animal science community presents information on leading research institutions in the entire world and also informs on developments in the industry sector related to animal science and production. The Newsletter is sent to all WAAP member organizations and to their associates. You are all invited to submit information for the newsletter. Please send information, news, text, photos and logo to [waap@waap.it](mailto:waap@waap.it).

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