WORLD ASSOCIATION for ANIMAL PRODUCTION

www.waap.it

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The World Animal Science News

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EDITORIAL

Our WCAP Lyon (France) 2023 conference: which program, which organization?

The general theme of our conference is "Climate change, biodiversity and global sustainability of Animal Production"

Once every 5 years the World Association of Animal Production (WAAP) organizes a global conference, the World Conference on Animal Production (WCAP), in association with one of the WAAP member Societies. This is one of the central activities of our federation of associations. The last WCAP meeting took place in Vancouver in 2018, jointly organized by ASAS and CSAS.

The next WCAP will take place in Lyon, France from August 27 to 31, 2023. The WCAP will be jointly organized with the annual meetings of EAAP and Interbull (the International Bull Evaluation Service) under the responsibility of Jean-François Hocquette who will be the General Secretary of the conference. Before describing the sessions that we are currently constructing, I would like to provide some broad outlines which have guided the development of the program for this conference.

Our goal is to give this event, which only occurs every 5 years, a global dimension that corresponds to WAAP's mission and its geographical coverage. Our 18 members are located on all continents and the program must interest the greatest possible number of members of our scientific societies. For this reason, we have been asking the members of the general assembly of WAAP for more than two years to bring forward proposals for subjects likely to interest our members. More than 20 session proposals were submitted and discussed by our members in the previous months.

However, as you know, WAAP only has very limited resources. Co-hosting the meeting with one of our member Societies once every 5 years allows us to pool resources and thus to hold a better conference than either organization could do alone. We have therefore worked with EAAP to come up with the following proposals which will be implemented in Lyon in August 2023.

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Editorial (continues)

The conference will start with a specific "WAAP-day", on Sunday August 27th. The WAAP organized portion of the sessions will continue through the remainder of the EAAP meeting with 8 to 10 joint WAAP-EAAP sessions, from Monday August 28 to Thursday August 31. The schedule includes at least one session per half-day. The plenary session on Tuesday 29 August morning will be a joint EAAP-WAAP session.

This organization should allow both our WAAP members to find subjects of direct interest to them, but also themes specifically dealt with by EAAP. In the same way, EAAP members will have access to more global themes than in the annual conferences of their organization.

All scientists representing WAAP member Societies will be able to submit abstracts for oral communications and posters for all sessions from August 28 to 31, whether they are joint WAAP-EAAP sessions or not.

The first specifically WAAP day, Sunday August 27, will see two plenary sessions. The morning session will be devoted to the control of greenhouse gas emissions and the afternoon session to the role of livestock systems in the preservation of biodiversity. We have chosen these two themes because we consider them as unifiers of major global questions. These issues must be dealt with at the global level which is at the core of the WCAP mission. These sessions at WCAP will combine studies with varied hypotheses and methods along with the novel local solutions to problems facing animal agriculture. Thus, these international sessions on greenhouse gas emissions and maintaining biodiversity will provide a unique venue to enhance the global search for solutions to benefit us all. In each of these sessions, two speakers will have presentations of 40 minutes each and four speakers of presentations of 20 minutes each. These twelve speakers, invited by WAAP and its members, will come from different continents and we hope that their presentations will provide an update on these two subjects of considerable importance for our future and the future of livestock farming in the world. There will be no other oral presentations or posters on proposals for this day (Sunday).

The joint WAAP-EAAP sessions which will then take place from Monday August 28 to Thursday August 31. These joint sessions have been developed in close partnership with the EAAP Scientific Commissions to which the twenty proposals mentioned above were transmitted in early 2022. The topics were discussed at the EAAP 2022 congress in Porto where I was personally present as well as Jean-François Hocquette. The final list will be announced before the end of 2022, and I am hopeful that we will be able to find a large part of the topics of interest to WAAP members. These sessions will be organized on the same pattern as noted above, with symposium speakers, speakers who have submitted abstracts for oral or poster sessions. Every effort has been made to minimize concurrent sessions that might overlap in appeal to our member scientists.

Additionally, there will be posters displayed on stand with poster sessions and posters will remain displayed for 2 out of 4 days to facilitate viewing.

I am pleased to announce that there will be a WAAP award presented for the best oral communication and a prize for the best poster.

The submission of proposals for oral communications and posters will be done on the same site and with the same system for WAAP as for EAAP. A call for abstracts will be open between January 1st and March 1st, 2023.

Finally, an exceptional social program is also in preparation with a dozen of technical tours already submitted. Social activities will be exceptional in Lyon, which is the former capital of the Gauls at the time of the Roman Empire, a major economic hub during the Renaissance, and today the third-largest city and second-largest metropolitan area of France. The city is also known as "the gastronomic capital of the world". The town and its region are recognised for their exceptional sites inscribed on the UNESCO World Heritage List including the historical district of Lyon.

Registration will be open before the end of 2022 with several choices: you may register for the WAAP day, for EAAP sessions only or register for the whole WCAP-EAAP conference. Registration will be available with on-line access, which is highly encouraged and compulsory for authors of abstracts. Late registration will be available on site in Lyon. Please note: registration

fees will be reduced for early registration and for students. Grants will be available to young scientists and students.

Attendance at the EAAP congress in Porto this year was very high with over 1,300 delegates. We therefore anticipate between 1,500 and 2,000 delegates from more than 50 countries to be present in Lyon in 2023. Being one of them, you will be not only able to present your personal work and discuss it with the world's best animal scientists, but also improve your knowledge and skills by listening to some of the best speakers in the world and establish friendly working relationships. By networking with the European and global scientists in your discipline, you will be able to greatly enhance your scientific objectives.

In Porto this year, as in previous years, many young scientists were also able to participate in dedicated sessions and events and thus to establish relationships that will persist for many years of their future careers.

Preparation for this WAAP-EAAP-Interbull conference is accelerating on the organizers' side and I urge you to watch for announcements in the coming weeks and months that separate us from August 27, 2023 in Lyon. You can browse the specific meeting website (www.eaap2023.org) as well as the WAAP and EAAP Newsletters for developing meeting information, so as not to miss the deadlines for submission of abstracts and registrations.

Begin now to consider what you will be able to present to your colleagues at the WAAP-EAAP conference in Lyon. The Lyon 2023 conference, whose general theme is of major interest for all animal sciences and productions but also for the whole of society, is the main event organized by WAAP during the president's term, and I look forward to welcoming you to Lyon France next August.

Don't miss this opportunity, come to Lyon!

Philippe Chemineau
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From WAAP Members

American Dairy Science Association® (ADSA®)

ADSA News

ADSA® Science, education and service for the dairy industry

ADSA DISCOVER™ Conferences

WHY CHEESE FROM MILK?
March 7-9, 2023

Northern Illinois University Naperville Conference Center in Naperville, IL

Hosted by the American Dairy Science Association in collaboration with American Cheese Society; this Discover Conference will be offered as a hybrid program with both in-person and virtual participation options. Contact conference coordinator Molly Kelley or conference directory Larry Miller for more info.

CONFERENCE OBJECTIVE: Present some of the latest research on the nutritional and health promoting aspects of milk and cheese, including nutritional benefits of calcium, protein, fat and lactose in milk, and health- promoting benefits of components of the milkfat globule membrane, bioactive peptides, the positive effects of dairy components on the gastrointestinal (GI) microbiome, and the positive matrix effect of cheese as a delivery vehicle for essential nutrients, heath promoting (probiotic) compounds, and desirable microorganisms for the GI microbiome. Also included will be advances that address animal welfare practices, and climate change, in the context of present and future dairying and cheesemaking.

In planning: Discovery conference about LIFE SPAN of COW, hosted by the American Dairy Science Association

This ADSA Discover ConferenceSM will focus on the scientific advancements and questions and new perspectives about the important topic of dairy cattle productive lifespan. Compared to the previous DISCOVER conference on cow culling in 2004, new factors such as sexed semen, genomic testing, beef-on-dairy, increased milk production and health, and sustainability warrant a fresh look at the topic of dairy cattle lifespan.Date and Chicago, Illinois location still to be determined

Next ADSA meeting will be in Ottawa, Canada, Ontario, 25-28 June 2023.

Preparations for this meeting, like composing the symposia program, have already started.

European Federation of Animal Science (EAAP)

EAAP News

The EAAP present at the LXXXVI Jubilee Scientific Congress of the Polish Society of Animal Production

The Polish Society of Animal Production (PTZ) celebrated its 100 years of history with a Jubilee conference in Krakow, under the main title "Animal breeding and husbandry in Poland - from tradition to modernity". The president of the EAAP, Isabel Casasús, was invited by Joanna Makulska, president of the organizing committee, to be part of the honorary committee and give a conference during the plenary session. In this talk she discussed the challenges and perspectives for European livestock production, highlighting the supporting role of science and the EAAP. She also met several representatives of the PTZ, namely Anna Wójcik (president), Marcin Pszczola, Justyna Batkowska and Kamil Drabik, and from the National Animal Breeding Centre, Leszek Sobolewski (director) and Dorota Krencik. Here they explored further possibilities of collaboration with EAAP and how to increase our services to Polish members. Congratulations to our Polish colleagues on their first hundredth anniversary!



From left to right: Isabel Casasús, Marcin Pszczola, Anna Wójcik, Kamil Drabik, Justyna Batkowska, Dorota Krencik and Leszek Sobolewski

Best Oral Presentations and Best Posters awards

During the last EAAP Annual Meeting (Porto, Portugal, 5th – 9th September 2022), each EAAP Study Commission evaluated posters and presentations given by researchers who attended the congress. EAAP is now pleased to announce the list of winners for "Best Oral Presentations and Best Posters" awards. You will find all the winners in the attached document.

Today EAAP Webinar on "Taking Flight: How the insect farming industry is growing"

Today at 15:00 CET there will be the 14th EAAP Webinar titled "Taking Flight: How the insect farming industry is growing" organized in collaboration with the EAAP Insects Study Commission. The webinar will be chaired by Teun Veldkamp, from "Wageningen Livestock Research" (The Netherlands) & Laura Gasco, from "Università degli Studi di Torino" (Italy). The first presentation will be given by Lars-Henrik Lau Heckmann, from "*Better Insect Solution*"

(Denmark) which will present *Diversifying into the insect sector – an equipment supplier's perspective*. Thomas Farrugia from "Betabugs" (UK) will then talk about *All Producers, great and small, our industry needs them all*. The third speaker will be Daniel Murta from "EntoGreen" (Portugal) with his work titled *Together we can do so much: Partnerships in the insect protein sector*. Finally, the last talk will be titled Taking account: *Measuring sustainability of insect protein*, presented by Sergiy Smetana from "DIL – German Institute of Food Technologies" (Germany). Harry up! We have already more than 200 registered participants but you can still register for free if you wish to participate at the 14th EAAP Webinar!



Latin American Association of Animal Production (ALPA)

ALPA News

The International Meeting on Meat and Milk Production in Hot Climates was successfully held in Mexicali from October 6 to 7. The proceedings can be viewed on the website.

The 4th International Congress of Animal Production Specialized in Cattle was held in Cuenca, Ecuador from October 20-22.

The 47th Congress of the Chilean Society of Animal Production (SOCHIPA) will be held from November 29 to December 1.

On October 26, the ALPA Assembly will meet to elect a new Board of Directors.

The 27th ALPA meeting will be held in Zacatecas, Mexico from April 26-28, 2023 in conjunction with the 48th meeting of the Mexican Association of Animal Production (AMPA).



www.aapa.org.ar – www.aapa.org.ar/rapa - www.congresoaapa.com.ar

The **Argentine Association of Animal Production** (AAPA) is organizing the ***45th Argentine Congress of Animal Production*** that will be held exclusively online on November 16, 17 and 18. Under the slogan "*The resilience of production systems*", this year plenaries convened top national and international speakers that will address the most important challenges facing animal production in the present and the future. The Congress will have six plenary conferences, to be held on Wednesday November 16th in two sessions, one in the morning and the other in the afternoon, which will be open to the public and free of charge with prior registration. The challenges these conferences will address and the corresponding invited speakers are:

- ***"The situation and trends of livestock research in the world".*** Invited speaker: Dr. Andrea ROSATI, General Secretary of the European Federation of Animal Science (EAAP).
- ***"Climate change and resilience in agricultural systems".*** Invited speaker: Dr. Daniel REAL, Department of Primary Industries and Regional Development, Western Australia.

- ***"Genetic selection towards production efficiency, animal welfare and resilience"***. Invited speaker: Dr. John B. COLE, Research & Development, Urus Group LP, Madison, WI, Unites States.
- ***"Transformation of agricultural systems"***. Invited speaker: Dr. Lucas GARIBALDI, INRAD, National University of Río Negro and CONICET, Argentina.
- ***"Economic resilience and vulnerability of production systems"***. Invited speaker: Dr. Rafael TERRA, Faculty of Engineering, University of the Republic, Uruguay.
- ***"Information management in livestock systems"***. Invited speaker: Dr. Mateus PEITER, Dairy Digital Sales Lead de CARGILL, United States.

In addition, other conferences will be held and selected research papers, out of 381 submitted, will be discussed and presented in one of the eleven **disciplinary sessions** that will take place between Thursday 17 and Friday 18 November. These sessions are:

- Animal Feed and Nutrition
- Production and Use of Pastures
- Production Systems
- Reproduction and Fertility
- Animal Health
- Livestock Products Technology
- Animal Breeding and Genetics
- Teaching, Extension and Outreach
- Environment and Animal Production
- Animal Welfare and Ethology
- Genetic Improvement and Production of Forage Seeds

In between the disciplinary sessions, several **satellite activities** will also be developed:

- Symposium:"Innovations in genetic improvement of forage"
- Workshop PROMEFA (Program to improve the evaluation of forages and foods)
- Working day of the Network of Good Agricultural Practice
- Precision Forage Workshop
- Working day of the Argentine Forum of Bovine Genetics (FAGB)
- Sheep Workshop
- Family Livestock Workshop
- Book Presentation: "Environmental indicators for animal production"
- Lotus Activity

Please, contact AAPA for more details.

More information about program of activities will be available soon on the website and the congress dedicated website.

For more information you can contact eeabalcarce.aapa@inta.gob.ar or eeabalcarce.rapa@inta.gob.ar

Follow us on: Facebook – Instagram – Twitter - Youtube

South African Society of Animal Science (SASAS)

SASAS News

The Society held is first in-person and hybrid Congress from 26 to 28 September in Pietermaritzburg, Province of KwaZulu-Natal since 2019. The Congress theme was *Changing paradigms in livestock production – Confronting new realities*.

The thought-provoking theme was addressed with wide-ranging plenary papers on

• Sustainable, climate resilient livestock production systems for South African livestock (Dr J Rust);
• Emerging and re-emerging disease challenges due to increased environmental temperatures (Dr S Mbizeni);

• Challenges to livestock production (Dr J Roche, Chief science advisor, New Zealand Ministry of Primary Industries);
• Revisiting matching of livestock with their environment in an era of challenges (Dr MD MacNiel);
• Improving rural livestock- changing the mindset and market availability (Dr Florence Nherera);
• Meat traceability - its impact on South African producers and international markets (Mr D Olivier);
• Biosecurity measures (Prof N Duncan);
• Fundamental aspects of successful livestock production on veld (natural extensive pastures): Challenging conventional wisdom (Mr J Zietsman, of Zimbabwe);
• Practical application of BLUP / EBV's in grazing livestock systems (Dr N Maiwashe and Dr Linky Makgahlela); and
• The 21st Century Animal Scientist: Skills and mindset for the future; (Jackie Tucker).
• A diversion from animal science was a plenary paper on Early farmers in KwaZulu-Natal: Archaeological evidence (Mr G Whitelaw, KwaZulu-Natal Museum).

These plenary presentations were supported by 57 short papers and 59 poster presentations. No physical posters were present, but were available online, and the presentations were short two-minute verbal presentations. The Congress hosted the AGM deal with business. New elected members of the Board were announced. Representation on the Board and the president is a two-year term, renewable for a following two-year term. The president, Dr Trevor Dugmore, continues as president. The Congress was concluded with a gala dinner at which a number of awards were made to deserving members of SASAS. The Animal Science profession is flourishing in South Africa. It's a legal requirement that practicing Animal Scientists are registered with the statutory South African Council for Natural Scientific Professions (SACNASP). The current chairperson of the SACNASP Board is Prof KA Nephawe (Pr.Sc.Nat.; Anim. Sci.).
Further information regarding the South African Society for Animal Science, and the South African Journal of Animal Science (SAJAS) is available on the website.

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News from Science

Presse release - Inauguration of a state-of-the-art device at the service of the European agroecological transition of sheep and goat farming

On October 6, 2022, at Osmoy (18) in France a large-scale experimental device for the phenotyping of sheep and goat ruminants was inaugurated in the presence of Alain Ayong Le Kama, Rector of the Orléans-Tours Academy and Francois Bonneau, President of the Centre-Val de Loire Regional Council, Philippe Mauguin, CEO of INRAE. This unique facility in Europe is dedicated to research, particularly in genetics, to support the development of sustainable breeding systems for sheep and goats, making use of fodder. Read the complete press release here.



Jérôme BOUCHEROT (director of experimental unit P3R), Temanuata GIRARD (Vice president of Regional council Centre-Val de Loire in charge of Agriculture and Food), Philippe MAUGUIN (CEO of INRAE), François BONNEAU (President of Regional Council Centre-Val de Loire), Alain AYONG LEKAMA (Rector of the Academy Tours -Orleans), Marc GUERIN (President of the INRAE Val de Loire Center).
© Olivier BERTEL – Communication Center INRAE Val de Loire

Dr Christiane Girard wins the Rank Prize in Animal Nutrition

During the 7th International Symposium on Energy and Protein Nutrition (ISEP 2022), organized by the working group of the EAAP Nutrition Study Commission, held in Granada (Spain) on 12th-15th September, the Rank Prize in Animal Nutrition was awarded to Dr Christiane Girard from the Sherbrooke Research and Development Centre, Agriculture and Agri-Food Canada. B vitamins in ruminants and dairy cows, their impact on intermediary metabolism, milk yield, and composition were the Dr Girard's research focus. She is considered as being one of the leading scientists and experts in B vitamins. She has challenged the generally accepted concept that dietary requirements of dairy cows for B vitamins do not have to be considered because their synthesis by the rumen microflora is sufficient to prevent deficiency symptoms. She gave a remarkable contribution to improving estimations of the supply and requirements of B vitamins.



Prof. Joaquín Paulino participation to the seminar "Economic benefits of using corn from the United States the breeders of the Dominican Republic"

Joaquín Paulino, Professor of ISA University and international consultant animal nutritionist held his presentation "Beneficios del maíz EE. UU en manufactura de Alimentos balanceados" (***US corn benefits in feed manufacturing***) during the seminar "Ventajas Economicas del uso maiz americano en formulaciones pecuarias" (***Economic benefits of using corn from the United States the breeders of the Dominican Republic)*** that took place on 21st of September 2022 in Santiago de los Caballeros, Dominican Republic. Poultry and pig producers in the Dominican Republic pay up to 15 dollars more per ton of South American corn because it has a better colour and is cleaner than American corn and they mistakenly think that it has a lower level of mycotoxins and that it is more nutritious. In the year 2021 our growers spent an extra 14 million dollars buying South American corn. See here the Joaquín Paulino's presentation.

Dietary phosphorus in poultry: how low can we go?

Precision feeding improves the economics of production and reduces potential negative environmental impacts. Canadian researchers looked at how precise we can be when adding dietary phosphorus to poultry diets. Read the full article on PoultryWorld.



News from Industry

Mealworms for premium quality, nutrient rich and sustainable pet food

For the last decade, Ÿnsect, the world leader in the production of insect protein, has been researching and breeding mealworms (*Tenebrio molitor* and

Alphitobius diaperinus) in vertical farms in France, the Netherlands and the USA, with the aim of providing a new food source for pets while preserving natural resources, catering specifically to pet owners in search of climate-conscious alternatives. Read the full article on FeedAdditive.



Job Offers

Teagasc Walsh Scholarships Programme, Ireland

Under the Teagasc Walsh Scholarships Programme, a number of postgraduate opportunities in agriculture, horticulture, food, agri-food economics, rural development and rural environment, as well as specific topics are advertised over a number of months. For further information on this postgraduate programme view The Walsh Scholarships. To know more about the current opportunities and deadlines visit the dedicated webpage.

Postdoc researcher at INRAE, France

The research unit INRAE GABI is looking for a postdoc researcher to work on animal breeding schemes design and modelisation to promote resilient agroecological production system. The position is located at INRAE Jouy-en-Josas, France and is for 24 months. Deadline for application: 1st December 2022. For more information read the job vacancy.

Publications

1.Elsevier

Animal:Volume 16- Issue 10 – October 2022
Article of the month:"Animal Board Invited Review: Widespread adoption of genetic technologies is key to sustainable expansion of global aquaculture"

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

I."KeyShure Effects of an organic source of copper, manganese and zinc on dairy cattle productive performance, health status and fertility"

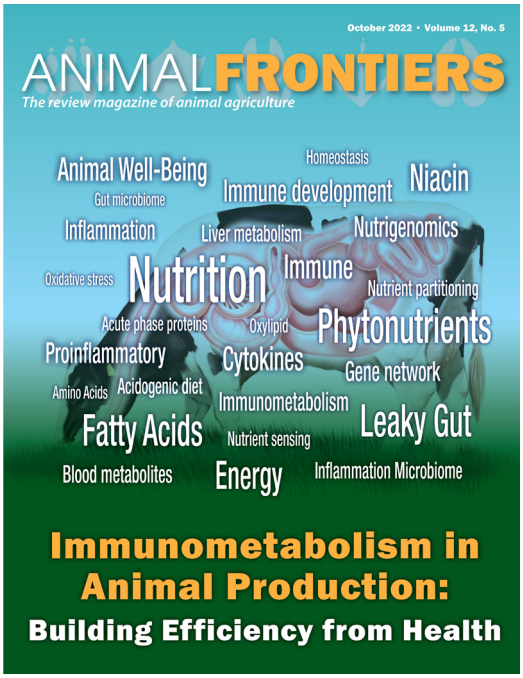
II. "Immunity in young animals"

III. "Effects of a mycotoxin on animals"

IV. "A Review of Novel Biological Alternatives to Antibiotic Therapies in Poultry"

3. Oxford Academic

"Animal Frontiers", Vol. 12, Issue 5, October 2022.



Meetings and Conferences

WAAP invites you to check the validity of the dates for every single event published below and in the Calendar of the website, due to the state of sanitary emergency that World is currently dealing with.

Event	Date	Location	Information
45th Argentine Animal Production Congress (AAPA)	16 – 18 November 2022	Virtual Congress	website
International Scientific Meeting on Colostrum	16 – 18 November 2022	Gran Canaria, Spain	website
4th Medforum "Mediterranean Agriculture and Food Systems in a Time of Climate Change and Agrofood Crisis"	4 - 6 December 2022	Chania, Crete - Greece	website
Sustainable Forages for Net-Zero in Livestock Production	6 December 2022	London, United Kingdom	website
International Conference on Animal Nutrition Science	29 -30 December 2022	Vienna, Austria	website
20th CAAV Academic Symposium of the Avian Disease Branch	19 – 22 January 2023	Yangzhou City, China	website
ADSA Discover Conference: Why Cheese from Milk?	7 -9 March 2023	Naperville, IL, USA	website
XXVII ALPA meeting	26 – 28 April 2023	Zacatecas, Mexico	website
ASDA annual meeting	25 -28 June 2023	Ottawa, Canada	website
ASAS-CSAS Annual meeting	16 – 20 July 2023	Albuquerque, USA	website
74th EAAP Annual Meeting	28 August – 1 September 2023	Lyon, France	website

More conferences and workshops are available on EAAP 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 .

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